PROFILE

Name : **Dr. Ponnusamy Munusamy Anbarasan**

Designation : **Professor-cum-Facilitator, Amrita Group of Institutions, ATLs, ATAL Innovation Mission (AIM), National Institution for Trasforming India (NITI Aayog), Govt. of India.**
Professor-cum-Director (Rtd.)
Centre for New and Renewable Energy Studies (CNRES)
Department of Physics, Periyar University, Salem – 636 011, TN

Date of Birth : **29th May, 1964; Age: 61 Years**

Contact Details : **Mobile: +91 9443659435, 6369427139 & anbarasanpm@gmail.com**
anbarasanpm@periyaruniversity.ac.in, profpmanbarasan@gmail.com

Qualifications : **M.Sc., M.Phil., Ph.D., D.Sc., M.A (Pub. Admn.), F.OSI., F.SESI., F. MRSI., Dip.in Hindi, Cert. in STEM Skills.,**

Experience : **36½ Years of Teaching, Research & Administration**

Degree	Ph.D	M.Phil	M.Sc	M.Tech
Guided	33 (Solo Guidance) + 8 (Co-Guidance) = 41	62	73	1
Guiding	4	-	-	-

Area of Research: STEM Skills, Laser & Spectroscopy, Nano-Optics, Solar Cells, Materials Science, Photocatalysis, Renewable Energy & Quantum Chemical Calculations, Energy Storage Devices, etc.

Research Keywords Tagged Information:

STEM Fields, Specialized Skills like Coding, Data Analysis & Laboratory Techniques (Robatics & Drone-based 3D Printing)

Antibacterial Activity, Azimuthally Polarized Beam, Complex Phase Mask, Crystal Growth, Density Functional Theory, Driving Force, Drug Designing, Environmental Pollutant Degradation, Green Synthesis, Dye Sensitizer, Electronic Structure, High NA Lens, Reduced Graphene Oxide decorated microstructure for Photocatalytic Application, Optoelectronic applications (Solar Cells, Laser based NLO Studies, etc.), Hydrogen Generation (Water Splitting Applications), Light Harvesting Efficiency, Supercapattery and Spectroscopic Studies & Computer-Human Interaction (CHI).

Fellowship/ Scholarship Awarded : **Indo-Hungarian Educational Exchange Programme**

Countries visited : **Italy, France, Germany, Hungary, Poland & Romania**

List of Publications : **249**

Books/Edited/Materials	Books/ Edited - 3	Study Materials – 6
International Journals	Published - 229	Submitted – 10
National Journals	Published - 17	Submitted – 6

Number of Conference/ Seminar/Lecture
Organized, Attended & paper presented : Organized: 15 & Paper Presented: 332

Educational Qualifications:

Examinations & Year	Subject	School/College attended	Name of the Board/ University
S.S.L.C (1979)	Maths, Science, History and Geography.	K.S.O High School, Mangainallur	Madras Board
H.S.C (1981)	Maths, Physics, Chemistry & Biology	National H.S.S Mayiladuturai	Madras Board
B.Sc (1984)	Physics	A.V.C College Mannampandal	Madras Univ.
M.Sc (1986)	Physics (Electronics)	Govt. Arts College Kumbakonam	Bharathidasan Trichy
M.Phil (1987)	Physics (X-ray Crystallography)	College of Engg. Guindy, Chennai	Anna University
M.Tech (1987)	Opto-Electronics & Optical Communication	Indian Institute of Technology, Delhi	IIT, Hauz Khas, New Delhi
Dip. in Hindi (1991)	Diploma in Hindi	Directorate of Hindi Education	MHRD, New Delhi
M.A (1993)	Public Administration	Distance Education	Madras University
Ph.D** (2001)	Laser Physics/ Micro-Optics	Raman School of Physics	Pondicherry Central University
D.Sc (2022)	Tight Focusing Properties and Quantum Chemical Calculations for Optoelectronics Applications	Department of Physics School of Physical Science	Periyar University
Cert. in STEM Skills (2025)	STEM fields, Specialized Skills like Coding, Data Analysis & Laboratory Techniques	ATLs, Amrita Group of Institutions (TN & Pondy)	AMMACHI Labs, Amrita Viswa Vidyapeetham, Amrita Uni., Kerala

***GATE'87 Passed and Studied M.Tech (Opto-Electronics and Optical Communication), IIT, Delhi but finally given up the course to join the UPSC Selected (Open Merit with All India 2nd Position) Lecturership Post at Govt. of Pondicherry (Pondicherry University).**

Ph. D Supervisor: Prof. Dr. S. Mohan, Ph.D., D.Sc., Professor and Head, Raman School of Physics, Pondicherry University, Puducherry – 608 014 & Former Vice Chancellor, PRIST University, Tamil Nadu.

****Title: Theoretical Analysis of Technologically Important Planar Microlens and Some Characteristics of Semiconductor Lasers – 17th August - 2001 (28.06.2002)**

M.Phil Dissertation: Intensity Data Collection for Canonphyllol ($C_{30}H_{50}O_2$) Crystal - November - 1988 (23.2.1990) – First Rank in the admission selection merit list.
Supervisor: Prof. Dr. K. Subramanian, Professor of Physics, College of Engineering, Anna University, Guidy, Chennai - 600 025 & Former Member Secretary AICTE, New Delhi.

M.Sc Project: Construction of Astatic Magnetometer for Age Determination of Archaeological Rock Samples - April - 1986 (05.11.1986)
Guide: Prof. V. Krishnamurthy, Govt. Arts College for Men, Kumbakonam.

Teaching experience at Universities/ Centres/Colleges of Higher Education

Name of the Institution	University	Designation	Scale of Pay	Classes taught Under Graduate/ Post-Graduate/Research	Period (Give dates)	Length of experience (Years/ Months)
Govt. of Pondicherry (P.G. Centre)	Pondicherry University*	Lecturer & Reader	2200-75-2800	U.G, P.G and Research	28-11-1988 to 16-03-2005	16 years & 3 Months
Periyar University Salem, TN	Periyar University Salem, TN	Reader in Physics	12000-18300	P.G and Research	17-03-2005 to 31-12-2005	9 Months
Periyar University Salem, TN	Periyar University Salem, TN	Associate Professor in Physics	37400-67000	P.G and Research	01-01-2006 to 31-12-2008	3 Years

Periyar University Salem, TN	Periyar University Salem, TN	Professor of Physics	144200 - 218200	P.G and Research	01-01-2009 To 31.05.2024	15 Years & 5 moths
ATLs (TN & Pondy), NITI Aayog	AIM, Amrita University, Kerala	**Professor-cum-Facilitator**	As per the norms of Govt. of India	Innovative Research, **AMMACHI Labs**	03.06.2024 to Till Date	One Year
					Total Experience	**36 Years & 10 Months**

*** Kanchi Mamunivar Government Institute for Post graduate Studies and Research (KMGIPSR), Puducherry**

Membership in the Professional Bodies :

1. **Fellow & Life Member, Optical Society of India (OSI), Membership No. L424 (2004)**
2. **Life Member, Indian Spectro-Physics Association (ISPA) - Membership No. 103/98/1999 (28.07.1999)**
3. **Member, Indian Laser Association (ILA)**
4. **Life Member, Indian Association for Crystal Growth (IACG)**
5. **Fellow & Life Member, Atti della Fondazione Giorgio Ronchi (Microoptica), Italy**
6. **Fellow& Life Member, Solar Energy Society of India (SESI) - Membership No. LM/1680/2011**
7. **Fellow& Life Member, Materials Research Society of India (MRSI) - Membership No. LMB 2580/2015 (01.07.2015)**
8. **Member, Raman International Optronic Society (RIOS), ID: RIOS/0615/2023/Dt. 07.11.2023**
9. **Facilitator, AMMACHI Labs, Amrita Group of Institutions, ATLs, ATAL Innovation Mission (AIM), National Institution for Trasforming India (NITI Aayog), Govt. of India (ID: SF.TN.IT/0006)**

ORCID : https://orcid.org/0000-0002-2210-448X

ResearcherID : AAH-7624-2019 (Publons & Web of Science (WoS) & ResearcherID)

Scopus Author ID : 12778504200

Google Scholar ID : http://scholar.google.co.in/citations?user=azJvAqMAAAAJ&hl=en

Vidwan-ID : 43227

Microsoft Academic ID : 2668165974

Google Scholar Citation : Greater than 4061

h-index : 34

i10-index : 99

Cumulative Impact Factor : Greater than 500

Skype Name : live:.cid.7409b67c305d789e
ULektzcampus : ulektzconnect/in/504314

Linkedin : linkedin.com/in/p-m-anbarasan-36b3aa254

Indian Research Information Network System (IRINS):
https://periyaruniversity.irins.org/profile/43227

Link to Profile Web of Science: AAH-7624-2019, ABD-9698-2021, CBQ-4062-2022

INSA JRD-TATA Fellowship:

Awarded by Prof. N. Sathyamurthy, Honorary Director, Centre for Co-operation in Science & Technology among Developing Society (CCSTDS), Govt. of India.
Awarded to Dr. Oluwaseun Adedokun, Ladoke Akintola University of Technology, Nigeria Under the Mentorship of Prof. P. M. Anbarasan at Periyar University, Salem – 636 011, Tamilnadu, India. (Dated: 08 March 2019)

ISPA LIFE TIME ACHIEVEMENT AWARD:

On behalf of Indian SpectroPhysics Association (ISPA), I have been received the "ISPA Life Time Achievement Award". The Award bestowed during the inaugural session of the 3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023) organised by Department of Physics, Periyar University, Salem, Tamil Nadu, in Association with ISPA held on 14th September 2023 in Commemoration of Remembrance of Prof. Dr. S. Mohan.

ISPA Dr. S. GUNASEKARAN AWARD:

On behalf of Indian SpectroPhysics Association (ISPA), I have been received the "ISPA Dr. S. Gunasekaran Award". The Award bestowed during the inaugural session of the International Virtual Conference on Light Applications in Science and Engineering Research (LASER – 2021) organised by the ISPA in Association with Sophisticated Analytical Instrumentation Technique (SAIF), St. Peter's Institute of Higher Education and Research held on 14th September 2021 in Commemoration of Remembrance of Prof. Dr. S. Mohan.

Reviewer & Subject Expert to the Following Commissions/Funding Agencies/Universities:

1. Reviewer, SERB, Department of Science and Technology (DST), Govt. of India, New Delhi.

2. Reviewer for R&D Proposals of CSIR-HRDG-EMR-II Scheme, Council of Scientific and Industrial Research (CSIR), Govt. of India, New Delhi

3. Subject Expert, Union Public Service Commission (UPSC) in various Interviews/Personality Test Boards.
4. Subject Expert, Tamil Nadu Public Service Commission (TNPSC) in various Interviews/Personality Test Boards.

5. Subject Expert, Faculty Selection Committee, Central & State Universities and Colleges.

6. Subject Expert, Promotion of Teachers under UGC Career Advancement Scheme (CAS) Screening-cum-Evaluation Committee and Selection Committee Meeting held on 23.01.2023 & 09.03.2023, respectively.

7. NAAC, Assessor, Chairperson/Chairman, Peer Team Visit of SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S, SCIENCE COLLEGE, NAGPUR UNIVERSITY on 15/05/2025 - 16/05/2025

8.

Major Research Projects/Travel Grants:

S. No	Title of Project/ Seminar/ Conference /Exchange Progamme	Name of the funding Agency & Amount	Status
1.	Construction of Astatic Magnetometer for Exploration of Minerals and Crude Oils (Patronized by DGM, Cauvery Project, ONGC, Karaikal)	Oil And Natural Gas Commission (ONGC), Neravy Complex, Karaikal – 609604, India, Project Sanctioned No. 1/1991, Dt. 22.02.1991, Rs. 40,000/-	Principal Investigator - Completed
2.	Design, Optical Study and Light Trapping Scheme of Low Order Aberration Microlens for Micromachined Silicon Solar Cells	UGC Rs. 10,19,800/- F. No. 34-5/2008 (SR) Dt. 02.01.2009	Principal Investigator - Completed
3.	Conversion of Sunlight into Electricity Schemes Through Centre for Nanoscience and Nanotechnology, Periyar University, Salem – 636 011	Tamilnadu Govt. Rs. 1,00,00,000/- G.O. (Ms). No. 307/Dt.14.08.2009	Principal Investigator Completed
4.	Synthesis, properties and Dynamics of Potential Nanostructured Materials applicable to Health and Energy	DST - Nanomission Rs. 14,76,60,848/-	Principal Investigator - Under Review
5.	Exact propagating Soliton Solutions of Some Nonlinear PDEs Governing the Director Dynamics of Nematic Liquid Crystal Medium	NBHM (Ref. No. 2/48(9)/ 2011/ -R & D/II/1223 – Rs. 9,66,000/-	Co-Principal Investigator (2012-2015) PI: Prof.L.Kavitha
6.	Joint ICTP-KFAS Workshop on Nanoscience for Solar Energy Conversion (2008) – (27.10.2008 to 29.10.2008)	Ref: ICTP/310/1938/ Dt. 27.08.2008/ Euro: Travel + DA	International Workshop, ICTP, ITALY
7.	Indo-Hungarian Educational Exchange Programme (2009) - Long Term Collaborative Research at the Dept. of Optics & Quantum Electronics, University of Szeged, Hungary (29-09-2009 to 30-10-2009)	D.O. No. F.27-14/2009(IC-II) / Dt.20.07.2009 UGC - Rs. 76,000/- + 118 000 HUF/month+ 800 HUF/month for accommodation.)	Collaborative Research with Prof. Dr. Karoly Osvay, University of Szeged, Hungary

8.	**Light at Extreme Intensity- Scientific Opportunities & Technological Issues – LEI 2009, Brasov, Romania (2009) – (16.10.2009 - 21.10.2009)**	**Ref: S303/Travel for Education/24.09.2009/ Romanian Leu (RON) 8600+Accommodation**	**International Conference, LEI, 2009, Romania**
9.	**Provenance Studies and Determination of Iron Concentration in Archaeological Artifacts using NAA to subject the Samples for Archeomagnetic dating**	**DAE-BRNS – Rs. 20,68,000/- Ref: PU/R/PL&D4/24629/ 2014/Dt.17.12.2014**	**Co-Principal Investigator (2013-2015) PI: Dr. G. Velraj**
10.	**Experimental And DFT Study on Reduced Graphene Based Hybrid Nanostructures for Hydrogen Evolution And Energy Storage Applications**	**DST-SERB/ File No. File No : EEQ/2017/000104 (Ver-1) Rs. *10,93,950 /-***	**PI Completed 21.02.2018 - 21.02.2021**
11.	**Academic Exchange Agreement Project between Periyar University and Universidad San Sebastian, SANTIAGO, CHILE** **<u>Other Institutions Involved in the Project</u>:** **Prof. Rashmi Bhardwaj, Guru Gobind Singh Indraprastha University, India.** **Prof. Lala B. Sukla, Siksha O Anusandhan (SAO) University, Bhubaneswar, Odisha, India.** **Prof. Jo-Ann Rolle, The City University of New York, USA.**	**Universidad San Sebastian, SANTIAGO, CHILE**	**My Student Dr. S. Shanavas went to Chile for his intership at Universidad San Sebastian, SANTIAGO** **Postdoctoral Fellow, Khalifa University, Abu Dhabi, UAE.**
12.	**Carbon Coated Orange-Peel Derived Activated Carbon as an Efficient Electrode for Symmetric Supercapacitor.**	**Tamilnadu State Council for Science and Technology, (TNSC&ST) DOTE Campus, Chennai - 600025** **Student Projects Scheme 2021-2022** **<u>Name of Student:</u>** **Mrs. M. Thooba Anjum**	**Serial No. 391** **Code: PS-066** **Amount Rs. Rs.7500/-** **On going; March 14th 2022**

<u>Merit/Award/others if any</u> : GATE'87 passed and joined M.Tech (Opto-Electronics and Optical Communication, IIT, Delhi) & UPSC (All India) Selected in 2nd Position for Lecturership and Joined in Govt. of Pondicherry (Pondicherry University) – 1988 & Best Motivator-cum-Teacher Awards by Three Trustees.

Indian Spectrophysics Association (ISPA) - Dr. **S. Gunasekaran Award (2021) for the best Researcher.**

Languages known : **Tamil, English, Malayalam, Hindi, French & Telugu.**

Sports/Tournaments Involved : **Volley Ball, Kabaddi, Chess and Running (Sac Race & Three legged Race)**

Name of the Book: "Current Research and Development in Chemistry, Vol.1"

Title of the Chapter: ***"Surfactant Free Synthesis of Ag+ Additive Added ZnO Nanstructures"***
Editor: Dr. Sampa Panja, Book Publisher International, London
ISBN-13(15): 978-93-89816-49-8

Name of the Book: "Current Topics in Medicine and Medical Research, Vol.1"

Title of the Chapter: ***"Separation and Identification of Four phenolic Acids from Some Selected Medicinal Plants of South India"***
Editor: Dr. Schin Kumar Jain, Book Publisher International, London
ISBN-13(15): 978-93-90149-05-6

Title of the chapter - 16: **"Current Status of Environmental, Health, and Safety Issues of Functionalized Nanomaterials"**

Title of the Book: **Functionalized Nanomaterial-Based Electrochemical Sensors. https://doi.org/10.1016/B978-0-12-823788-5.00014-4,**

A. Priyadharsan, S. Shanavas, S. Boobas, Tansir Ahamad, R. Acevedo, **P.M. Anbarasan**, and R. Ramesh - (Functionalized Nanomaterial-Based Electrochemical Sensors - Principles, Fabrication Methods, and Applications - Woodhead Publishing Series in Electronic and Optical Materials, 2022, Pages 357-368) - https://doi.org/10.1016/B978-0-12-823788-5.00014-4, ISBN: 978-0-12-823788-5

Books / Study materials written :

1. **NANO-OPTICS – (Near-field & Far-field Microscopy, Optical Recording, Surface Plasmon and Optical Probing) - Text Book (January, 2009) Hema Publications, Chennai - 42**

2. **Micro-Optics (ROE, DOE, HOE & Applications) – Text Book (January, 2008) Hema Publications, Chennai - 42**

3. **Microlenses in Micro-Optics – Text Book (January, 2007) Hema Publications, Chennai - 42**

4. **Advanced Physics - - M.Phil (Physics) - Paper -II - Study Material:**
   Copy Right: Periyar Institute of Distance Education (PRIDE), Periyar University, Salem - 636 011 (June 2005)

5. **Electromagnetic Theory –- M.Sc. (Physics) – Paper – V- Study Material:**
Copy Right: Periyar Institute of Distance Education (PRIDE), Periyar University, Salem - 636 011 (June 2008)

6. **Energy Physics – B.Sc (Physics) – Elective – III - Study Material:**
Copy Right: Periyar Institute of Distance Education (PRIDE), Periyar University, Salem - 636 011 (June 2008)

7. **Computational Physics - B.Sc (Physics) – Elective – B - Study Material:**
Copy Right: Periyar Institute of Distance Education (PRIDE), Periyar University, Salem - 636 011 (June 2010)

Editor/Associate Editor/Reviewers for the Following National & International Journals:

1. **Journal of Optics and Lasers in Engineering (OLEN) - (Elsevier)**
2. **Optik - International Journal for Light and Electron Optics - (Elsevier)**
3. **Acta Physica Polonica (Polish Physical Society)**
4. **Physics Express - Associate Editor**
5. **Journal of Spectrochimica Acta Part A (Elsevier) – Manuscripts Reviewed > 33**
6. **Atti della Fondazione Giorgio Ronchi (Journal of Optics), ITALY, ISSN 0391 2051**
7. **Recent Research in Science and Technology - Associate Editor**
8. **European Journal of Chemistry - (WILEY-VCH)**
9. **Chemical Papers - (Springer)**
10. **Journal of Spectroscopy and Dynamics - Associate Editor**
11. **Journal of Chemical Engineering and Materials Science - Editor**
12. **Molecular Simulation - (Taylor & Francis)**
13. **Computational and Theoretical Chemistry (COMPTC) - Elsevier**
14. **Journal of Silicon - Springer**
15. **Crystal Research Technology - WILEY-VCH**
16. **Indian Journal of Physics - (Springer)**
17. **Physica B - (Elsevier)**
18. **Journal of Scientific & Academic Publisher**

19. Bulletin of Materials Science - (Springer)

20. Nano Science – Nano Technology: An Indian Journal (Trade Science Inc.)

21. Indian Journal of Pure and Applied Physics (NISCAIR)

22. Environmental Science and Pollution Research - (Springer)

23. International Journal of Advanced Science & Engineering - Editor

24. Journal of Materials Science & Technology - (Elsevier)

25. Solar Energy (SE) - (Elsevier)

26. Journal of Materials Chemistry C - (RSC)

27. Chinese Chemical Letters (CCLET) - Elsevier

28. Journal of Materials Science: Materials in Electronics (JMSE)- Springer - Manuscripts Reviewed > 17

29. Applied Surface Science - (Elsevier)

30. Materials Research Innovations - (Maney)

31. Nanotechnology -IOP Journal

32. Journal of Porous Materials – Springer

33. Journal of Materials Science in Semiconductor Processing – (MSSP) - (Elsevier)

34. Scientific Reports/Nature Research

35. Journal of Cluster of Science - (Elsevier)

36. American Journal of Advanced Materials and Engineering Research (AJAMER) – Editor

37. Journal of Physics D: Applied Physics – IOP Journal

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38. Journal of the American Ceramic Society - Wiley Online Library

39. Computational Biology and Chemistry (CBAC) – Elsevier

40. International Journal of Nanoscience – (INJ) - World Scientific Publishing

41. Journal of Molecular Liquids (MOLLIQ) - Elsevier

42. Journal of Hazardous Materials (HAZMAT) - Elsevier

43. Zeitschrift für Physikalische Chemie – Germany Journal – Oldenbourg wissenschaftsverlag (International Journal of Research in Physical Chemistry and Chemical Physics)

44. Canadian Journal of Physics (CJP)

45. Korean Journal of Chemical Engineering (KJCE) - Springer

46. Materials Science and Engineering B (MSEB) – Elsevier

47. Solid State Materials for Advanced Technology (Elsevier)

48. Chemical Engineering Journal (CEJ) - Elsevier

48. Separation and Purification Technology (SEPPUR) - Elsevier

49. Letters in Organic Chemistry – Bentham Science

50. Chemical Data Collections – Elsevier

51. Vacuum – Elsevier

52. Zeitschrift für physikalische Chemie (International Journal of Research in Physical Chemistry and Chemical Physics) – Oldenbourg wissenschaftsverlag

53. Journal of Science: Advanced Materials and Devices - Elsevier

54. Optics and Laser Technology – Elsevier

55. Results in Physics (RINP) – Elsevier

56. Journal of Molecular Structure – Elsevier

57. New Journal of Chemistry – RSC

58. International Journal of Horticulture & Agriculture – Symbiosis Publisher.

59. Mini-Review in Organic Chemistry - Bentham Science

60. Optics and Photonics Journal (OPJ) – Scientific Research Publishing

61. International Journal of Mechanics and Design – Journalspub – Editor

62. Applied Organometallic Chemistry – John Wiley & Sons

63. Ceramic International (CERI) – Elsevier

64. Current Applied Physics (CAP) – Elsevier

65. Ecotoxicology and Environmental Safety (EES) – Elsevier

66. Organic Electronics (ORGELE) – Elsevier

67. Journal of Current Science (JCS) – Indian Academy of Sciences (IAS)

68. International Journal of Modern Physics C (IJMPC) -
(Computational Physics and Physical Computation) - World Scientific Publishing

69. International Journal of Electro Mechanics and Mechanical Behaviour – JournalsPub - Editor

70. Organic Electronics (ORGELE) – Elsevier

71. Journal of Physics: Materials (*Jphys Materials*) – IOP Journal

72. Bulletin of the Korean Chemical Society – Web of Science Group

73. Journal of Photochemistry & Photobiology, B: Biology – Elsevier

74. Journal of Radiation Research and Applied Sciences – Taylor & Francis Group

75. Science Letter Journal – Editor

76. Journal of Engineering Research and Reports (JERR)– (ISSN: 2582-2926)

77. Asian Journal of Chemical Sciences (AJCS) - (ISSN: 2456-7795)

78. Journal of Radiation Physics and Chemistry (JRPC)– Elsevier

79. International Journal of Biochemistry Research & Review - (ISSN: 2231-086X)

80. Journal of Environmental Chemical Engineering (JECE) – Elsevier

81. Applied Surface Science (APSUSC) – Elsevier

82. Sensors and Actuators B: Chemical (SABC) – Elsevier

83. Biocatalysis and Agricultural Biotechnology (BAB) – Elsevier

84. Environmental Progress & Sustainable Energy (JEPSE)- John Wiley & Sons, Inc.

85. Molecular Simulation/Journal of Experimental Nanoscience - Taylor & Francis

86. Diamond & Related Materials – Elsevier

87. Measurement - Journal of the International Measurement Confederation (IMEKO) – Elsevier

88. Material Research Express – (IOP)

89. Journal of Environmental Chemical Engineering – Elsevier

90. Molecular diversity – Elsevier

91. Materials Today Communications - Elsevier

92. Optical and Quantum Electronics - Springer Nature

93. Inorganic Chemistry Communications – Elsevier

94. Journal of the Indian Chemical Society

95. Medicinal Chemistry Research (MCRE)

96. Journal of Physics and Chemistry of Solids – Elsevier

97. Environmental Science and Pollution Research – Springer Nature

98. Dyes and Pigments - Elsevier

99. Journal of Bioresources and Bioproducts - Elsevier

100. Nano-Structures & Nano-Objects – Elsevier – Editor - Prof. Sabu Thomas

101. Journal of Computational Biophysics and Chemistry - World Sci. Pub. Co Pte Ltd

102. International Journal of Nanoscience (IJN) - World Scientific Journals

103. Medicinal Chemistry Research – Springer Nature

104. Journal of Rare Earths - Elsevier

105. Advanced Powder Technology - Elsevier

106. Environmental Technology & Innovation - Elsevier

107. Zeitschrift für Physikalische Chemie

108. Solid State Communications - Elsevier

109. Surfaces and Interfaces - Elsevier

The following Professors/Scientists/Technologists/Experts are given talk/visit in our Department/Centre by our Invitations:

1. Prof. Dr. J. Kumar, Vice-Chancellor & Former Director, Crystal Growth Centre, Anna University, Chennai – 600 025 Special Lectures on "Visible and Ultraviolet Sources for

Solid State Lighting and Water Purification" on 27.01.2009

2. **Prof. Dr. R. Jayavel, Director, Centre for nanotechnology, Anna University, Chennai – 600 025, Special Lectures on "Nanomaterials for Sensor Applications"** on 27.01.2009

3. **Prof. S. Umapathy, Director, IISER, Bhopal, Former IISc, Bangalore - One day Special Lectures on "50 Years of Lasers**" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 15th December, 2010 (Director, IISER, Bopal)

4. **Prof. E. S. Sooriyamoorthy, Madurai Kamaraj University - One day** "**Energy Conservation – Awareness Programme**" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 20th December, 2010.

5. **Dr. V. Saravanan, Energy Consultant, Madurai** - **One day** "**Energy Conservation – Awareness Programme**" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 20th December, 2010.

6. **Prof. K. Muthuchelian, Former V.C, Periyar University, Salem** - **One day** "**Energy Conservation – Awareness Programme**" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 20th December, 2010.

7. **Prof. P. Natarajan, National Centre for Ultra Fast Process, Madras University**, National Conference on "**Advanced Nanomaterials** (ANM-2012)" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 6-7, February, 2012.

8. **Prof. R. Ramarajan, Madurai Kamaraj University, National Conference on "Advanced Nanomaterials** (ANM-2012)" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 6-7, February, 2012.

9. **Prof. N. Rajesh, BITS, Pilani, Hydrabad Campus, National Conference on "Advanced Nanomaterials** (ANM-2012)" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 6-7, February, 2012.

10. **Prof. S. Chandrasekaran, Hindustan Lever Research Professor, JNCASR & IISc, Bangalore– National Science Academies' Lecture workshop on 'Modern Trends in Chemistry**' orgnised by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14, August, 2012.

11. **Prof. N. Sathyamurthy, Director, IISER, Mohali – National Science Academies' Lecture workshop on 'Modern Trends in Chemistry**' orgnised by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14, August, 2012.

12. **Prof. R. Ramarajan, Madurai Kamaraj University - National Science Academies' Lecture workshop on 'Modern Trends in Chemistry**' orgnised by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14,

August, 2012.

13. **Dr. Ramaiah, NIIST, Trivandrum - National Science Academies' Lecture workshop on 'Modern Trends in Chemistry'** orgnised by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14, August, 2012.

14. Dr. **M.L.P. Reddy, NIST, Trivandrum - National Science Academies' Lecture workshop on 'Modern Trends in Chemistry'** orgnised by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14, August, 2012.

15. **Dr. A. P. J. Abdul Kalam, Former President of India - Stone Inscriptions function of Centre for Nanoscience and Nanotechnology and Interaction with student** on 12-01-2013.

16. **Dr. R. Brakaspathy, Secretary & Advisor/Scientist-G, Department of Science & Technology (DST) Govt. of India, New Delhi,** Keynote address and Delivered Lecture **"Interaction Programme on DST Schemes for Researchers, organized by the Centre for Nanoscience and Nanotechnology on 12.06.2015**

17. **Dr. Renato Toffanin, Managing Director & Science and Technology, Faculty Member, - Advanced Research Centre for Health, Environment and Space (ARCHES), , Via Giuseppe Leuzzi 18, I-70013 Castellana Grotte, Italy,** visited on **10.12.2013 & 12.10.2015**

18. **Dr. Thomas Mohr, Department of Energy and Drive Systems, University of Applied Sciences, Ulm, Germany** and **Collaborative Research Conducted during the month of Dec, 2013** also visited for discussion on **22.06.2013** & **11.07.2016**

Administrative Positions (with Period) Held in Periyar University:

(Name of the Institution/ Department	Designation	Nature of post	Nature of assignment	Period (Give dates)		Length of experience
				From	To	
Periyar University Salem, TN	Reader in Physics	Chairman	P.G Board of Examinations	15-5- 2005	14-06-2005	One Month
Periyar University Salem, TN	Reader in Physics	Chairman	P.G Board of Examinations	21-12-2005	20-01-2006	One Month

Periyar University Salem, TN	Associate Professor	Chairman	P.G Board of Examinations	29-05-2006	30-06-2006	One Month
Periyar University Salem, TN	Associate Professor	Library in-charge	Circulating Books to Students	17-03-2005	17-3-2012	7 Years
Periyar University Salem, TN	Associate Professor	Coordinator	Periyar University Examinations & Engg. Exams.	04-05-2008	14-8-2008	3 Months
Periyar University Salem, TN	Professor	Additional Controller of Examinations	Distance Education Examinations	15-4-2009	15-01-2010 Extended upto 30.06.2011	9 Months
Periyar University Salem, TN	Professor	Chairman	P.G Board of Examinations	15-1-2010	15-2-2010	One Month
Periyar University Salem, TN	Professor	Director / Coordinator	Centre for Nanoscience & Nanotechnology (CNNT)	01-07-2011	10-01-2017	Six years
Periyar University Salem, TN	Professor	Chairperson & Convenor	e-Waste Management Committee	05-02-2020	31.05.2024	4 years 3 Months
Periyar University Salem, TN	Professor	Director	Centre for New and Renewable Energy Studies (CNRES)	29-07-2021	31.05.2024	Two Year& 8 Months

ATLs (TN & Pondy), NITI Aayog	AIM, Amrita University, Kerala	**Professor-cum-Facilitator**	As per the norms of Govt. of India	Innovative Research, **AMMAC HI Labs**	**03.06.2024 to Till Date**	**One Year**

Orientation and Refresher Courses

1	**Academic Staff College Pondicherry University Pondicherry**	**4-2-1992 to 2-3-1992 (28 days)**	**Orientation Course**
2	**Academic Staff College Pondicherry University Pondicherry**	**18-10-'96 to 7-11-1996 (21 days)**	**Refresher Course**
3	**Academic Staff College Pondicherry University Pondicherry**	**11-12-2001 to 31-12-2001 (21 days)**	**Refresher Course**
4	**Academic Staff College Madras University Chennai-25**	**25-1-2002 to 14-2-2002 (21 days)**	**Refresher Course**

MEMORANDUM OF UNDERSTANDINGs (MOUs)

1. Memorandum Of Understanding (MOU) between Periyar University, Salem, and ARCHES, Italy, has been signed to facilitate staff exchange and collaborative research exchange of scientific information and publications.

Dr. Vincent Aroulmoji from ARCHES – Italy and Dr. P. M. Anbarasan, Professor from Periyar University, Salem, had been appointed as contact officers. This MOU would be in force for a period of three years. It would help the development of the research activities. Training: This understanding would include various activities such as exchange of research staff, training of researchers, collaborative research exchange of scientific information and publications and industry and academic collaboration. The agreement was signed in front of Vice Chancellor and others.- (27.6.2011) - Periyar University gets Access rights to "Web of Science".

2. Memorandum of Understanding (MOU) between Periyar University, India– Silicon Ventures, UK, for industry collaboration setting-up technical excellence centre and R&D facility on Microelectronics at Periyar University, Salem - 636 011, Tamilnadu, India. Mr.Gopal Dharmaraj from UK and Prof. P. M. Anbarasan from Periyar University had been appointed as Contact Officers.

Mr. Gopal Dharmaraj, Management at Silicon Capital, Greater Cambridge Area, UK (2015)

Activities are Planned at the site: 1. To scale up operation from present 10 students to 140

students and growing as per the business plan to complete the R&D to prove the concept and start industrialization of the IP development process, run silicon verification shuttles before going to market and deliver profitability. 2. To provide access to PERIYAR UNIVERSITY Faculty, Research Scholars and M.Sc Students specializing in microelectronics as extended high-end research facility. 3. Give exposure to the Students live project environment including interacting with our European clients. 4. Joint R & D activity between our Specialist and experts with PERIYAR UNIVERSITY faculty.

Outside India - Foreign M.Sc/PhD Dissertation/Thesis Evaluations:

1. The Papua New Guinea, University of Technology, M.Sc Dissertation entitled, "**Indoor Radiation Levels and Dose Assessnment to the City of Lae in Papua New Guinea**" Name of Candidate: **Mr. Philip Victor Epemu (SID 17800136)**, Name of Supervisor: **Prof. Panakal John Jojo, Professor of Applied Physics, The paupa New Guinea University of technology, Lae, PNG**

Review Article:

1. P. M. Anbarasan, C. Indira Priyadharshini, R. Sathiyapriya, V. Hariharan, K. Prabakaran, V. Aroulmoji, "**Development of TiO_2 Nanomaterials and Dyes Selection (using DFT) for DSSC Applications – A Stepwise Review** – https://doi.org/10.29294/IJASE.6.2.2019.1326-1350, ***Int. J. Adv. Sci. Eng****. Vol. 6, No. 2, 1326-1350 (14 Dec 2019),* ***ISSN 2349 5359*** **Impact Factor: 3.55**

2. M. Sumathi, P. Rekha, M. Mohan, A. Prakasam, **P. M. Anbarasan**, V. Aroulmoji, "**Review on the Recent Applications of Nanomaterials in Energy, Environmental and Health Care",** ***Int. J. Adv. Sci. Eng****. Vol. 10, No. 3,* 3482-3488 , 1326-1350 (14 Dec 2019), ISSN 2349 5359, **Impact Factor: 3.55**

I. LIST OF PUBLICATIONS: (REFEREED INTERNATIONAL & NATIONAL JOURNALS): (Total number of Citations: > 2581

Top 20 Articles, since its Publication (2010)* & (2012)* Respectively.

*Rajesh KB, Jaroszewicz Z, **Anbarasan PM**: Improvement of Lens Axicon's Performance for Longitudinally Polarized Beam Generation by Adding a Dedicated Phase Transmittance. *Opt Express*; 2010 Dec 20; 18(26): 26799-805

*Lalithambigai K, Suresh P, Ravi V, Prabakaran K, Jaroszewicz Z, Rajesh KB, **Anbarasan PM**, Pillai TVS., "Generation of Sub Wavelength Super-Long Dark Channel Using High NA Lens Axicon" *Opt. Lett*; 2012 Mar 15; 37(6): 999-1001.

BOOK CHAPTERS

1. Title of the Book: Functionalized Nanomaterial-Based Electrochemical Sensors. https://doi.org/10.1016/B978-0-12-823788-5.00014-4,
Title of the chapter: "16 - Current Status of Environmental, Health, and Safety Issues of Functionalized Nanomaterials"

A. Priyadharsan, S. Shanavas, S. Boobas, Tansir Ahamad, R. Acevedo, **P.M. Anbarasan**, and R. Ramesh - (Functionalized Nanomaterial-Based Electrochemical Sensors - Principles, Fabrication Methods, and Applications - Woodhead Publishing Series in Electronic and Optical Materials, 2022, Pages 357-368) - https://doi.org/10.1016/B978-0-12-823788-5.00014-4, ISBN: 978-0-12-823788-5

2. EMERGING MXENES MATERIALS FOR EFFICIENT SUPERCAPACITOR APPLICATIONS: CURRENT TRENDS AND FUTURE PERSPECTIVES

Book Name: Futuristic Trends in Chemical Material Sciences & Nano Technology Vol. 3, Book 1
Authors: S. Arun Kumar, Prabhu Sengodan, Venkadeshkumar Ramar, R. Ramesh, P. M. Anbarasan
Keywords: Two-Dimensional Material, MXene, Supercapacitor.
Area/Stream: Chemical Science,Material Science & Nano Technology / Physical Chemistry / Others, **Published in:** IIP Series
Volume: 3, **Month:** May,**Year:** 2024, **Page No.:** 257-265, **e-ISBN:** 978-93-5747-867-0
DOI/Link: https://www.doi.org/10.58532/V3BDCS1CH17
https://www.iipseries.org/viewpaper.php?pid=4008&pt=emerging-mxenes-materials-for-efficient-supercapacitor-applications-current-trends-and-future-perspectives

2025

1. S.Arun Kumar, I. Sarasamreen, A. Vinnarasi, A. Gowdhaman, C. Balaji, S. Prabhu, R. Ramesh**, P. M. Anbarasan***, "**Achieving Superior Performance in Aqueous Supercapatteries and Ni-Zn Batteries by Employing 3D-NiO Flowers/NF Electrode" Electrochimica Acta,** Volume 513**,** 10 February 2025, 145582, https://doi.org/10.1016/j.electacta.2024.145582, **Impact Factor: 5.5**

2. A. Arunkumar***, P. M. Anbarasan,** Mohd. Shkir, S. Rajkumar and M. A. Sayed**, "Multi-role of $K_3V_2(PO_4)_3$/C Nanocomposite as High-Potential Cathode Materials for Potassium Ion Battery with, Antibacterial Agent and Visible-Light-Driven Photocatalyst" Diamond Related Materials, 153, 2025, 112074,** DOI: 10.1016/j.diamond.2025.112074, 3 February, 2025, **Impact Factor: 4.3**

3. K. Lalithambigai*, **P. M. Anbarasan**, Mohd. Shkir, "**Single Long Linear Flat-Top, Double and Triple Optical Beams Formation by an Azimuthally Polarized Laser Light using a Seven-Zone BPPF System" Micron**, Volume 191**, April 2025, 103788, https://doi.org/10.1016/j.micron.2025.103788, https://www.sciencedirect.com/science/article/abs/pii/S096843282500006X, Impact Factor: 2.5**

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4. Joseph Iruthayaraj Ragavan, **Ponnusamy Munusamy Anbarasan***, Ammasi Arunkumar*, Nasir A. Siddiqui and Aslam Khan, "**Design, Synthesis, Spectroscopic, Electronic, Biological and MTT Evaluations of Flavone Compound using Density Functional Theory" Journal of Computational Biophysics and Chemistry,** ISSN (print): 2737-4165 | ISSN (online): 2737-4173, Formerly known as **Journal of Theoretical and Computational Chemistry**, **DOI: 10.1142/S2737416524500741**, (2024) xx (x), pg. 1-18, **Impact Factor: 2.05**

5. I. Sarasamreen, S. Arun Kumar, S. Shanavas, R. Ramesh, **P.M. Anbarasan*,** A. Arunkumar, Mohd. Shkir, P. Sivakumar, **Investigation of the Electrochemical Properties of SnS/r-GO Nanocomposite for Aqueous Supercapacitor Applications**" **Surfaces and Interfaces**, Volume 54, November 2024, 105215, https://www.sciencedirect.com/science/article/abs/pii/S2468023024013713, ISSN: 2468-0230, https://doi.org/10.1016/j.surfin.2024.105215, **Impact Factor: 5.7**

6. S. Anithamani, M.K. Subramanian*, I. Ragavan, **Ponnusamy M. Anbarasan**, Nasir A. Siddiqui, Aslam Khan, "**Synthesis, Structural Mechanisms, RDG, Biological and Pharmaceutical Significance of Anticancer Agent 9H-carbazole Attached 4-chlorobenzaldehyde using DFT Reckonings" Journal of the Indian Chemical Society,** Volume 101, Issue 11, November 2024, 101343, https://doi.org/10.1016/j.jics.2024.101343, https://www.sciencedirect.com/science/article/abs/pii/S0019452224002231, **Impact Factor: 3.2**

7. Irudayaraj Ragavan, Ammasi Arunkumar*, **PonnusamyMunusamy Anbarasan***, Vellingiri Balasubramani, Hamad Al-lohedan, Dhaifallah M. Al-dhayan, Vasudeva Reddy Minnam Reddy, Woo Kyoung Kim, **"Efficient Photocatalytic Hydrogen Production of Ni-Co Layered Double Hydroxides (Ni-Co LDHs) Anchored with Reduced Graphene Oxide (rGO) Hybrid Composite" Colloids and Surfaces A: Physicochemical and Engineering Aspects,** 20 August, 2024, Vol. 695, 134213, ISSN - 0927-7757, https://doi.org/10.1016/j.colsurfa.2024.134213, **Impact Factor: 5.2**

8. R. Sridevi, A. Prakasam*, **P. M. Anbarasan**, Rajneesh Kumar, M. Karthik, K. Deepakvijay, **"Facile Construction of MoS_2 Decorated CdS Hybrid Heterojunction with Enhanced Hydrogen Generation Performance", Chemical Physics Impact,** Available online 26th March 2024, Vol. 8, pg. 100584, Online ISSN: 2667-0224, https://doi.org/10.1016/j.chphi.2024.100584, **Impact Factor: 2.2**

9. Sarasamreen I, Shanavas S, Arun Kumar S, Ramesh R & **Anbarasan P. M*, "Electrochemical Performance of NiS/r-GO Composite based Electrode Material for Electrochemical Energy Storage Application" Journal of Materials Science: Materials in Electronics (JMSE) -** JMSE-D-24-00157R1 - Volume-35, Article number: 691, 2nd April, 2024, ISSN: 1573-482X, **Impact Factor: 2.8**

10. S. Arun Kumar*, A. Gowdhaman, C. Balaji, R. Ramesh, **P. M. Anbarasan, "Investigating the Synergistic Potential of Urchin-like $CuCo_2O_4$ flowers and BiVO4 Sheets in Supercapattery Framework Designs for Effective Energy Storage Applications"** ALCOM_173896, **Journal of Alloys and Compounds**, Vol. 984, Pg. 173896, 15th May 2024, Available online from 16th February 2024, https://doi.org/10.1016/j.jallcom.2024.173896, ISSN: 1873-4669, **Impact Factor: 6.2**

11. A. Arunkumar, **P. M. Anbarasan*** and Xue-Hai Ju **"Acceptor Tuned Effect on the D-π-A-based Organic Efficient Sensitizers for Optoelectronic Properties Using Quantum Chemical Study", Optical and Quantum Electronics,** Optical and Quantum Electronics

(2024) 56:520, https://doi.org/10.1007/s11082-023-06196-4, 30 January, 2024, **Electronic ISSN:** 1572-817X, **Print ISSN:** 0306-8919, **Impact Factor : 3.0**

12. S. Arun Kumar, A. Gowdhaman, C. Balaji, R. Ramesh, **P.M. Anbarasan***, "**Exploring the Potential of Two-Dimensional $NiCo_2O_4$ Sheets//$BiPO_4$ Flakes as a Hybrid Supercapacitor Device for Energy Storage Application" Colloids and Surfaces A: Physicochemical and Engineering Aspects,** Volume 685, 20 March 2024, 133247, Available online 17 January 2024, ISSN - 0927-7757, https://doi.org/10.1016/j.colsurfa.2024.133247, **Impact Factor: 5.2**

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13. K. Guna, P. Sakthivel*, I. Ragavan, A. Arunkumar, **P.M. Anbarasan**, Mohd Shkir, "**An Experimental and Computational Analysis on 2,6-diamine-7H-purine Ligand with Spectroscopic, AIM, NLO and Biological Activity**" on January, 2024, Vol. 168, Page:109872, **Optics and Laser Technology**, https://doi.org/10.1016/j.optlastec.2023.109872, ISSN: 1879-2545 - **Impact Factor: 5.0**
14. Arunkumar Ammasi, Ragavan Iruthayaraj, **Anbarasan Ponnusamy Munusamy***, Mohd Shkir, Balasubramani Vellingiri, Vasudeva Reddy Minnam Reddy, Woo Kyoung Kim, **"Molecular Screening of Different π-Linker-Based Organic Dyes for Optoelectronic Applications: Quantum Chemical Study" Journal of Electronic Materials** (2023) 52: ISSN: 3774–3785, https://doi.org/10.1007/s11664-023-10338-5, **Impact Factor: 2.1**

15. K. Deepakvijay, A. Prakasam*, R. Arivazhagan, **P.M. Anbarasan "Insights into the Structural, Electronic, Quantum Chemical Properties and Molecular Docking Studies on Novel NAMPT Inhibitor Molecule" Journal Chemical Physics Impact**, Available online 22 November 2023, Vol. 7, pg. 100395, https://doi.org/10.1016/j.chphi.2023.100395, Online ISSN: 2667-0224, Online ISSN: 2667-0224, **Impact Factor: 2.2**

16. Arunkumar Ammasi*, **Anbarasan Ponnusamy Munusamy***, Mohd Shkir, Balasubramani Vellingiri, Vasudeva Reddy Minnam Reddy*, and Woo Kyoung Kim, "**Design and Fabrication of $BaSnO_3$/RGO as Efficient Pt-Free Counter Electrode for Dye-Sensitized Solar Cells", J Mater Sci: Mater Electron,** (2023) vol. 34: pg. 2168, https://doi.org/10.1007/s10854-023-11540-1, ISSN: 1573-482X, **Impact Factor: 2.401**

17. C. Vidya, I. Ragavan, A. Arunkumar, **P. M. Anbarasan*** and Mohd Shkir, "**Synthesis, crystal Structures, Spectroscopy and Quantum Chemical Studies on the 4-dimethylaminopyridinium-2,4-dinitrophenolate: An Organic NLO Material for Optoelectronics", Journal of Molecular Modeling**, Vol. 29, pg. 388 (2023) https://doi.org/10.1007/s00894-023-05785-0, Electronic ISSN: 0948-5023, Print ISSN: 1610-2940, **Impact Factor: 2.2**

18. A. Arunkumar*, and **P. M. Anbarasan**, "**Computational Study on D-π-A-Based Electron Donating and Withdrawing Effect of Metal-Free Organic Dye Sensitizers for Efficient Dye-Sensitized Solar Cells" Journal of Computational Biophysics and Chemistry**, Vol. 22, No. 08, pp. 1115-1124 (2023), DOI: 10.1142/S2737416523420139, ISSN (print): 2737-4165 | ISSN (online): 2737-4173, Special Issue: Computational Studies of Solar Energy Materials, Guest Editor: Javed Iqbal, **Impact Factor: 2.05**

19. S. Arun Kumar, I. Sarasamreen, C. Balaji, A. Gowdhaman, R. Ramesh, **P.M. Anbarasan*, "Elevates the Electrochemical Stability Performance of Hydrothermally Synthesized Co_3O_4 Nanowires/NF for Hybrid Supercapacitors" Inorganic Chemistry Communications,** 158 (2023) 111506, https://doi.org/10.1016/j.inoche.2023.111506, ISSN: 1387-7003, **Impact Factor: 3.8**

20. I. Sarasamreen, Shanavas Shajahan, S. Arun Kumar, Mohammad Abu Haija, R. Ramesh, **P.M. Anbarasan***, **"Synthesis and Electrochemical Properties of CuS/C-Dots Microflower for High-Performance Supercapacitor" Diamond & Related Materials,** 140 (A) (2023) 110453, DOI: 10.1016/j.diamond.2023.110453, **ISSN:** 0925-9635, Pub. Date : 2023-09-27, **Impact Factor: 4.1**

21. Arunkumar Ammasi, **Anbarasan Ponnusamy Munusamy***, Mohd Shkir, F. Maiz, Balasubramani Vellingiri, Vasudeva Reddy Minnam Reddy, Woo Kyoung Kim, "**Synthesis and Electrochemical Performance of $CoWO_4$ and $CoWO_4$/ MWCNT Nanocomposites for Highly Efficient Supercapacitor Applications" Diamond & Related Materials, 139 (2023) 110352,** https://doi.org/10.1016/j.diamond.2023.110352, **ISSN:** 0925-9635, **Impact Factor: 4.1**

22. Arunkumar Ammasi*, Ragavan Iruthayaraj, **Anbarasan Ponnusamy Munusamy** and Mohd Shkir, "**Enhancement of Highly Efficient Flavone-Based Organic Dyes with Different Anchoring Groups Effect in Dye Sensitized Solar Cells Using Experimental and TD-DFT Study" Journal of Materials Science: Materials in Electronics**, (2023) 34:1331, pg. 1-18, https://doi.org/10.1007/s10854-023-10736-9, ISSN: 1573-482X, **Impact Factor: 2.401**

23. S. Arun Kumar, C. Balaji, A. Gowdhaman, R. Ramesh, **P.M. Anbarasan*, "Achieving High Energy Density in Supercapattery by Employing $CuFe_2O_4$ Microsheets and Bi_2O_4 Microspheres" Colloids and Surfaces A: Physicochemical and Engineering Aspects,** Volume 674, 5 October 2023, 131856, https://doi.org/10.1016/j.colsurfa.2023.131856, ISSN: 1873-4359, **Impact Factor: 5.518**

24. S. Arun Kumar, V. Sindhuja, A. Gowdhaman, C. Balaji, R. Ramesh, **P. M. Anbarasan***, "**Construction of Vertically Aligned $MnCo_2O_4$ Needles and Bi_2WO_6 Globules as Optimal Electrode Materials for Hybrid Supercapacitor" Electrochimica Acta, 459 (2023) 142545,** https://doi.org/10.1016/j.electacta.2023.142545, **ISSN:** 0013-4686, **Impact Factor: 7.336**

25. Kamalanathan Guna, Ponnusamy Sakthivel*, Joseph I. Ragavan, **Ponnusamy M. Anbarasan**, Chinnaian Vidya, Ammasi Arunkumar, "**Structural, Spectroscopic, Electronic, Hirshfeld, QTAIM and Biological Predications of a Hybrid 2,6-dichloropurine Compound: A Detailed Density Functional Theoretical Study" Journal of the Indian Chemical Society,** 100 (2023) 100984, https://doi.org/10.1016/j.jics.2023.100984, ISSN: 2667-2847, **Impact Factor: 0.243**

26. K. Periyasamy*, P. Sakthivel, I. Ragavan, **P. M. Anbarasan**, A. Arunkumar, Mohd Shkir, C. Vidya, V. Balasubramani, Vasudeva Reddy Minnan Reddy & Woo Kyoung Kim, **"Design, Synthesis, and Optical and Electrochemical Properties of D–π–A Type Organic Dyes with Carbazole-Based Donor Units for Efficient Dye-Sensitized Solar Cells: Experimental and Theoretical Studies" Journal of Electronic Materials https://doi.org/10.1007/s11664-023-10210-6, 52, pg. 2525-2543 (2023),** ISSN: 0361-5235, **Impact Factor: 2.047**

27. S. Aadheeswari, , **P. M. Anbarasan*,** A. Arunkumar and Shakir Mohd "**Computational Study on D-π-A-based Metal-Free Donor-Tuned Molecules for Efficient Organic Dye-Sensitized Solar Cells**", **Journal of Computational Biophysics and Chemistry,** ISSN (print): 2737-4165 | ISSN (online): 2737-4173, Formerly known as **Journal of Theoretical and Computational Chemistry**, https://doi.org/10.1142/S2737416523500151, (2023) 22 (2), pg. 231-241, **Impact Factor: 2.05**

28. Arunkumar Ammasi, Ragavan Iruthayaraj, **Anbarasan Ponnusamy Munusamy*** & Mohd Shkir, "**Molecular Engineering on D-π-A Organic Dyes with Flavonebased Different Acceptors for Highly Efficient Dye Sensitized Solar Cells Using Experimental and Computational Study**" **Journal of Molecular Modeling** - (2023) 29 (2) :45 pg. 1-14, https://doi.org/10.1007/s00894-023-05445-3 - ISSN: 1610-2940, **Impact Factor: 1.984**

29. A. Arunkumar*, **P. M. Anbarasan**, Mohd Shkir and V. Balasubramani, "**Computational Screening of D-π-A Structured with Acceptor-Tuned Metal-Free Organic Dye Molecules for DSSCs" Journal of Computational Biophysics and Chemistry,** Vol. 22, No. 02, pp. 219-229 (2023), https://doi.org/10.1142/S2737416523500138, ISSN (print): 2737-4165 | ISSN (online): 2737-4173, Formerly known as Journal of Theoretical and Computational Chemistry**, Impact Factor: 2.05**

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30. C. Vidya, I. Ragavan, J. Jayaprakash, S. Arun Kumar and **P.M. Anbarasan*, "Synthesis, Spectral Analysis and Characterization on First Order Hyperpolarizability of Organic Piperidinium-4-Nitrophenolate Crystal for Optical Applications" Zeichen Journal,** Volume 8, Issue 07 (2022) pg. 514-533, ISSN No: 0932-4747

31. N. Balasubramanian, S. Prabhu, N. Sakthivel, R. Ramesh, S. Arun Kumar and **P. M. Anbarasan***, "**Electrochemical Performance of Fe_2O_3@PPy Nanocomposite as an Effective Electrode Material for Supercapacitor**" **ECS Journal of Solid State Science and Technology**, Volume 11, 9 (2022) 091001, pg. 1-9, ISSN / EISSN : 2162-8769 / 2162-8777, **DOI:** 10.1149/2162-8777/ac8837, **Impact Factor: 2.070**

32. N. Balasubramanian, N. Sakthivel, S. Prabhu, R. Ramesh, S. Arun Kumar and **P. M. Anbarasan***, "**Design of Cube-like MnO_2/r-GO Nanocomposite as a Superior Electrode Material for an Asymmetric Supercapacitor**" **ECS Journal of Solid State Science and Technology**, Volume 11, Number 7 (2022) 071010, pg. 1-8, ISSN / EISSN : 2162-8769 / 2162-8777, **DOI:** 10.1149/2162-8777/ac7e6a, **Impact Factor: 2.070**

33. Joseph Iruthayaraj Ragavan, **Ponnusamy M. Anbarasan***, Ammasi Arunkumar and A. Ibrahim, "**Design, Synthesis, Spectroscopic Characterization, Molecular Docking and Biological Evaluation of 9H-Carbazole Linked 4-Nitrophenol: A DFT Approach" J. Comput. Biophys. Chem. 21 (8), (2022), pg. 909-926 -** DOI: 10.1142/S2737416522500259, ISSN (print): 2737-4165 | ISSN (online): 2737-4173 - **Impact Factor: 2.440**

34. P. M. Anbarasan*, A. Arunkumar and Shakir Mohd, "**Computational Analysis of Carbazole-based Newly Efficient D-π-A Organic Spacer Dye Derivatives for Dye-Sensitized Solar Cells**", **Structural Chemistry, Electronic ISSN-**1572-9001, **Print ISSN-**1040-0400, https://doi.org/10.1007/s11224-021-01853-4, Springer Nature, Published: 23 March 2022, 33, pages 1097–1107 (2022), **Impact Factor: 1.877**

35. R. Govindarasu, M. K. Subramanian*, A. Arunkumar, **P. M. Anbarasan** & Mohd Shkir, **"D–π–A Manufactured Organic Dye Molecules with Different Spacers for Highly Efficient Reliable DSSCs via Computational Analysis" Molecular Simulation**, Vol. 48, Issue 3, pg. 584-593, 16 Feb 2022, https://doi.org/10.1080/08927022.2022.2037585, Print ISSN: 0892-7022 Online ISSN: 1029-0435, **Impact Factor: 2.178**

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286. K. B. Rajesh and **P. M. Anbarasan** "**Physical Modeling of Microlenses using Free Volume Theory by The Modified LIGA Process**", pg. 155, in the **National conference on Recent Advances in Materials Science** (NCMS-2006) held at Periyar University during Feb-16-17, 2006

287. V. Ravi, K. Vasudevan, K. B. Rajesh and **P. M. Anbarasan** "**Theoretical Study on Optical Performance of Fast Imaging Microlenses Using Ray- Tracing Method**", pg.175, in the **National Conference on Recent Advances in Materials Science** (NCMS-2006) held at Periyar University during Feb-16-17, 2006

288. K. Vasudevan, V. Ravi, K. B. Rajesh and **P. M. Anbarasan** "**Light Trapping Scheme of Microlens Array Focused Beam on Micro Machined Thin Crystalline Silicon Solar Cells**", pg. 156, in the **National Conference on Recent Advances in Materials Science** (NCMS-2006) held at Periyar University during Feb-16-17, 2006

289. R. Rengaiyan, **P. M. Anbarasan**, A. Kalyanasundaram and S. Selvanandan, "**Tapered Microlenses-Ended Fibre for Medical Applications Using Laser-To-Fibre Coupling Theory**", pg. 66, in the **National Conference on Recent Advances in Materials Science** (NCMS-2006) held at Periyar University during Feb-16-17, 2006

290. B. Shanmugavelu and **P. M. Anbarasan**, "**A Novel Study on Electrically Variable Focal Length Microlens**," pg. 134, in the **National Conference on Recent Advances in Materials Science** (NCMS-2006) held at Periyar University during Feb-16-17, 2006

291. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Optical Properties in Dyes Doped KAP Single Crystals"** in the **International Conference on Crystal Growth**", 10-15 February 2006, Crystal Growth Centre, Anna University, Chennai, India.

292. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Growth and Characterization of Dyes Doped KAP Crystals**' in the **Workshop on Crystal Growth Methods**, 8-9 August 2006, SSN Engineering College, Chennai, India.

293. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Effect of Metal Ion and Amino Acid Doping on the Optical Performance of KDP Single Crystals'**, **Romanian Conference on Advanced Materials (ROCAM 2006), September 11-14 2006**, Bucharest, Romania.

294. P. Kumaresan, S. Moorthy Babu and P. M. Anbarasan, "Optical Properties in Dyes Doped KDP Single Crystals', **Sixth DAE-BRNS National Laser symposium (NLS-6), 5-8, December 2006, organized by Raja Ramanna Centre for Advanced Technology (RRCAT)**, Indore, India.

295. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan** "**Growth and Characterization of Dyes Doped KDP Crystals**', **National Seminar on Crystal Growth**, 07-11 December 2006, SSN Engineering College, Kelampakkam, Chennai, India.

296. **P. M. Anbarasan**, E. James Jebaseelan Samuel and S. Mohan. "**A Novel Study on Coupling Property of Low Aberration with High Throughput Microlens**" **Fifth DAE-BRNS National Laser Symposium (NLS-5)**, December 7-10, 2005 at Vellore Institute of Technology, Vellore, Proceedings of the NLS-2005, Page No.52, 2005.

297. D. K. Gupta, G. Meenakshi, C. Thangaduraichy and **P. M. Anbarasan**, "**Molecular Interaction Analysis of Polar Liquids in Non-Polar Solvent Treated with Microwave Frequency**", **International Conference on Spectrophysics** at Post Graduate & Research Department of Physics, Pachaiyappa's College, Chennai – 30, (INCONS – 2005) Organised by Indian Spectrophysics Association, during 09 – 12 of February 2005

298. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Performance of Metal Thiourea Complex Doped on KDP Single Crystal**", **34th National Seminar on Crystallography**, 10-12 January 2005, Gauhati University, Gauhati, India.

299. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Effect of Amino Acids on KDP Single Crystals**", **DAE-BRNS 4th National Laser Symposium (NLS-4), Bhabha Atomic Research Centre (BARC), 10-13 January 2005, Mumbai, India. ISBN: 8177647342 9788177647341, ICLC No. 60971111**

300. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan, "Metal Ions Doped KDP Single Crystals**", **Crystal Growth Conference** 27-29, January 2005, Kongu Engineering College, Perudurai Erode, Tamil Nadu, India.

301. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Optical Properties of Amino Acid Doped KDP Crystals**", **National Symposium on Crystal Growth and Characterization**, 29-30 September 2005, Department of Physics, Loyola College, Chennai, India.

302. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan, "Optical Performance and Dyes Doped KDP Crystal"**, **3rd Asian Conference on Crystal Growth and Crystal Technology (ACGCT-3). Oct. 16-19, 2005, Beijing China**

303. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Effect of Dyes Doped KDP Single Crystals**", **Fifth-DAE NLS-5**, 07-10 December 2005, Vellore Institute of Technology, Vellore, Tamil Nadu, India.

304. **P. M. Anbarasan**, G. Meenakshi, G. Bhaskara Raju, K. Subramani and D. K. Gupta, "**Investigation on the Growth Kinetics for Preparing Low Aberration Microlens Using Electro-Epitaxy Technique**", **National Symposium on Ferro Electrics and Ceramics**, Organised by Department of Physics, Meerut College, during April 08, 2004.

305. S. Moorthy Babu, **P. M. Anbarasan**, P. Kumaresan and P. Ramasamy, "**Role of Doped Metal Ion in KDP Single Crystal**", **International Conference on Crystal Growth (ICCG-2004), Grenoble, France, held on 11th – 15th August 2004.**

306. S. Moorthy Babu, **P. M. Anbarasan**, Geetha Chandrasekaran and P. Ramasamy "**Role of Doped Metal Ion in KAP Single Crystal**", **International Conference on Crystal Growth (ICCG-2004), Grenoble, France, held on 11th – 15th August 2004.**

307. **P. M. Anbarasan**, G. Meenakshi and D. K. Gupta, **"Investigation on the Growth Kinetics for Preparing High Throughput Microlenses using Electro-Epitaxy Technique**", **UGC Sponsored National Seminar on Modern Trends in Applied Spectroscopy** (NASMTAS – 2004), Organised by Physics section, Faculty of Engineering and Technology, Annamalai University, Chidambaram, during 25th and 26th of March 2004.

308. D. K. Gupta, V. Varalakshmi, G. Meenakshi and **P. M. Anbarasan**, "**Dielectric Relaxation Mechanism of Some Polar Molecules in Benzene**", **National Symposium on Ferro Electrics and Ceramics**, Organised by Department of Physics, Meerut College, during April 08, 2004.

309. **P. M. Anbarasan**, K. Subramani and G. Meenakshi, "**A Comparative IR Study on Single and Doped Crystals of KDP And KA**P", **National Conference on Perspectives in Engineering Optics and Spectroscopy**, Organised by Department of Physics, CCS University, Meerut, during April 05 – 07, 2004.

310. D. K. Gupta, G. Meenakshi and **P. M. Anbarasan**, "**Behaviour of Polar Liquids in Different Solvents at Microwave Frequency**", **National Conference on Perspectives In Engineering Optics And Spectroscopy**, Organised by Department of Physics, CCS University, Meerut, during April 05 – 07, 2004.

311. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Participated in International Workshop on Crystal Growth and Characterization of Technological Important Materials**", February 24-28, 2004, Crystal Growth Centre, Anna University, Chennai, India.

312. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Effect of Amino Acids and Metal Ions Doped KDP Single Crystals**", **ICCG-14, 9-13 August 2004, Alpes Congress, Grenoble, France.**

313. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan,** "**Participated in Indo-Japan Workshop on Crystal Growth and Applications of Advanced Materials for Optoelectronics**", December 7-10, 2004, Crystal Growth Centre, Anna University, Chennai, India.

314. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan, "Non-Linear Optical Materials-KDP**", **DAE-BRNS National Laser symposium,** 14-16 November, 2002,

Collaboration with University of Kerala, Tiruvananthapuram, organized by Shri Chitra Tirunal Institute for Medical Sciences & Technology, Tiruvananthapuram, India.

315. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan, "Quantum Size Effect Lasers"**, **DAE-BRNS National Laser symposium,** 14-16 November, 2002, Collaboration with University of Kerala, Tiruvananthapuram, organized by Shri Chitra Tirunal Institute for Medical Sciences & Technology, Tiruvananthapuram, India, pg.448.

316. P. Kumaresan, S. Moorthy Babu and **P. M. Anbarasan, "Epitaxial Growth of II-VI Compounds"**, **DAE-BRNS National Laser symposium,** 14-16 November, 2002, Collaboration with University of Kerala, Tiruvananthapuram, organized by Shri Chitra Tirunal Institute for Medical Sciences & Technology, Tiruvananthapuram, India, pg. 449.

317. **P. M. Anbarasan**, B. Karthikeyan and S. Mohan, "**Theoretical Analysis of Line Width Enhancement Factor of 1.5 µm BIG-DBR-DSM (Bundle–Integrated-Guide Distributed–Bragg-Reflector-Dynamic-Single-Mode) Laser**" **Australisian Conference on Optics and Laser Spectroscopy, during 3-6, December 2001, Organised by University of Queen Land, Brisbane, Queen Land, Australia, ACOLS-2001.**

318. **P. M. Anbarasan**, B. Karthikeyan, E. James Jebaseelan and S. Mohan, "**Theoretical Analysis of High Speed Heterojuction npn Transistor using Electron - Wave Diffraction**" **International Conference on Materials for Advanced Technologies, Symposium N: Materials for Optoelectronics and High frequency Electronics Applications**, held 1-6 July 2001, organized by the **Materials Research Society of Singapore, National University of Singapore, Singapore**. Proceedings published in a special issue of Materials Science in Semiconductor Processing (*Elsevier Publication*), ICMAT-2001, Page 433, N, 2001.

319. **P. M. Anbarasan**, B. Karthikeyan, K. S. P. Durairaj and S. Mohan, "**Estimation of Permissible Optical Input Power in a Semiconductor Optical Switch/Modulator using Electric Field Induced Refractive Index Variation**", **International Conference on Materials for Advanced Technologies, Symposium N: Materials for Opto-electronics and High frequency Electronics Applications**, held 1-6 July 2001, organized by the **Materials Research Society of Singapore, National University of Singapore, Singapore**. Proceedings published in a special issue of Materials Science in Semiconductor Processing (*Elsevier Publication*), ICMAT-2001, Page 483, N, 2001.

320. **P. M. Anbarasan**, B. Karthikeyan and S. Mohan, "**Estimation of Transfer Function of Mode Coupled Graded – Index Multimode Optical Fibres by Algebraic Methods**" **National Symposium on Photonics and Spectroscopy**, 14-16, March, 2001, Raman School of Physics, Pondicherry University, Pondicherry. Proceedings of NSPS-2001, Page 38, 2001.

321. B. Karthikeyan, **P. M. Anbarasan** and S. Mohan, "**A Novel Study on Propagation Properties of the Cylindrical Fibre with Short Coupling Time and Accuracy by Matrix Method**" **National Symposium on Photonics and Spectroscopy**, 14-16, March, 2001, Raman School of Physics, Pondicherry University, Pondicherry. Proceedings of NSPS-2001, Page 40, 2001.

322. B. Karthikeyan, **P. M. Anbarasan** and S. Mohan, "**Wave Analysis of Broadband Multimode Optical Fibres with Optimum Refractive Index Distribution by Perturbation Method**" **National Symposium of Photonics and Spectroscopy**, 14-16,

March, 2001, Raman School of Physics, Pondicherry University, Pondicherry. Proceedings of NSPS-2001, Page 42, 2001.

323. **P. M. Anbarasan** and S. Mohan, "**Theoretical Analysis of Electric-Field-Induced-Refractive Index change in InGaAsP/InP MQW structure using Density Matrix Theory**", **International Conference on "Lasers and Their Applications**" (INCOLA - 2000), March 1-4, 2000, St. Joseph's College, Trichy. Proceedings of INCOLA - 2000, Page No. 108, P-22, 2000.

324. **P. M. Anbarasan** and S. Mohan, "**Theoretical Analysis of Possibility of Subpicosecond Response of Electron Devices using Metal-Insulator Heterostructure**", **National Conference on Recent Advances in Material Science**, Sep. 29-30, 2000, P.G. Dept. of Applied Physics, Nehru Memorial College, Puthanampatti, Trichy, NCMS-2000, Page 56, 2000.

325. **P. M. Anbarasan,** K. Sonamuthu and S. Mohan, "**Raman Scattering Studies on $Bi_2Sr_2CaCu_2O_8$**" **II National Conference on Spectro-Physics**, 9-11, Aug. 2000, ISPA and Pachaiyappa's College, Chennai. Proceedings of NCONS - 2000, Page 341 - 351, 2000.

326. P. Nallasamy, **P. M. Anbarasan** and S. Mohan, "**Vibrational Spectra and Assignment of Cis- and Trans-1, 4-Polybutadiene**", **3th Mediterranean Basin Conference on Analytical Chemistry (MBCAC-III)**, Antalya, Turkey – June 4-9, 2000

327. **P. M. Anbarasan**, N. Puviarasan and S. Mohan, "**FTR and FTIR study of 5 - Aminoindole and 1 - Aminoindane**", **International Conference on "Lasers and their Applications**" (INCOLA - 2000), March 1-4, 2000, St. Joseph's College, Trichy. Proceedings of INCOLA - 2000, Page No. 128, P-33, 2000.

328. **P. M. Anbarasan**, S. Periandy and S. Mohan, "**Theoretical Aspects of Surface Emitting Room Temperature Injection Laser**" **8th National Laser Symposium** organised under **National Laser Programme of Department of Atomic Energy** at School of Physics, University of Hyderabad, Hyderabad, December 15-17, 1999. Proceedings of the NLS '99, Page No. 253, LSC – 3, 1999.

329. **P. M. Anbarasan**, N. Puviarasan and S. Mohan, "**Spontaneous Emission Factor of Injection Lasers**" **8th National Laser Symposium** organised under National Laser Programme of Department of Atomic Energy at School of Physics, University of Hyderabad, Hyderabad, December 15-17, 1999. Proceedings of the NLS '99, Page No. 251, LSC – 2, 1999.

330. **P. M. Anbarasan**, V. Arjunan and S. Mohan, "**Modulation Limit of Semiconductor Lasers by Some Parametric Modulation Schemes**", **8th National Laser Symposium organised under National Laser Programme of Department of Atomic Energy** at School of Physics, University of Hyderabad, Hyderabad, December 15-17, 1999. Proceedings of the NLS '99, Page No. 249, LSC – 1, 1999.

331. **P. M. Anbarasan**, S. Mohan, "**2-D arrayed Distributed-Index Planar Microlens**" **ICLMD '99** **International Conference on Laser Materials and Devices** - December 8-10, 1999 at Defence Science Centre, Delhi. Proceedings of the ICMLD '99, Page No. 437-445, 1999, *Allied Publishers Limited*, Delhi.

332. N. Puviarasan, **P. M. Anbarasan**, P. Saravanan and S. Mohan, "**FTIR and FTRaman Spectral Investigation on 4 - Aminoquinaldine and 5 - Aminoquinoline**" **One day Seminar on Recent Trends in Chemical Physics**, 17, April - 1999, Department of Physics, Annamalai University, Chidambaram, Abstract, P-1, 1999.

III. Resource Person/Guest/Invited Talk/Special Lecture/Keynote Address/Endowment Lecture/Presentation, etc. Delivered at Various Institutions on Invitation:

Chief Guest & Resource Person: Delivered a talk on **"Paradoxes in Life and its Solutions through Scintific Approach"** in the Inaugural Function organised by Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal – 637 001 held on 30.09.2024

1. **Resource Speaker: Delivered on "NANO OPTICS"** in a **Six Day International Faculty Development Program (Online)** entitled **"Nano Innovations: Shaping the World of Tomorrow (NISWT'24)"** organized by Department of Humanities and Basic Sciences, held from 09.09.2024 to 14.09.2024 at Sri Indu College of Engineering and Technology, Sheriguda, Hyderabad, Telangana State, India.

2. **Resource Person**: Lecture series conducted by **Institution's Innovation Council** (Ministry of Education Initiative), Govt. of India, delivered on "**Systematically Understanding Paradox in Society Through Innovative Scientific Approach**" in the Amrita Vishwa Vidyapeetham, Amrita School of Engineering, Amritapuri - Kollam - 690 525, Kerala, India, on 27-08-2024

3. **Chief Guest and Delivered** on "**Indigenous Technologies for Virshit Bharat**" **National Science Day Celebration** held on 28.02.2024, organised by Departments of Physics and Chemistry, Sona College of Arts and Science, Salem, Tamil Nadu.

4. **Dr. Sr. Rosamma Endowment Lecture** Delivered on "**Tight Focusing Properties of Laser and Sun Light**" organized by Department of Physics, Holy Cross College (Autonomous) Nagercoil, Kanyakumari District, Tamil Nadu, on 8.12.2023, INDIA - 629 004

5. **Chief Guest and Invited Talk:** on "**Technologically Important Metamaterials for Seismic Wave Protection" One Day National Conference on Emerging Materials and Computational Techniques - 2023 (NCEMCT - 2023)** organised by the Department of Physics, Dr. Kalaignar M. Karunanidhi Government Institute for Post Graduate Studies and Research, Karaikal, sponsored by Innovative Spectro Physics Association (ISPA), Puducherry held on 29.09.2023, IT-01.

6. **Chief Guest and Invited Talk**: on "**Scientific Animations for Understanding of Physics**" **National Seminar on Recent Trends in Physical Science and its Applications (NSRTPSA-2023)** organised by Department of Physics and Chemistry, Marutam Nelli Jayam Arts & Science College, Nallanur, Dharmapuri, held on 27.09.2023, YouTube link: https://www.youtube.com/watch?v=6ePw29fqbxQ&t=1936s, IT-01.

7. **Invited Talk:** Delivered a talk on "**Manmade Metamaterials: From Fiction to Fact**" in the

Proceeding of **3rd International Conference on Light Applications in Science and Engineering Research (LASER - 2023)** held during 14 – 16, September - 2023 organised by Department of Physics, Periyar University, Salem - 636011, Tamil Nadu, in Association with Indian Spectrophysics Association (ISPA), Chennai, Tamil Nadu, India, IT-14, Pg. 14-20, **ISBN: 978-81-1982-108-2**

8. **International Webinar Series on "Roll of Manmade Metamaterials in Nano-Optics: From Fiction To Fact"** as a part of the series of **Distinguished International Webinars organized by Prof. Roberto Acevedo** and the electronic journal **Revista INGLOMAYOR**. Santiago (CHILE), held on Friday Mar 31, 2023 · 17:00 – 18:30 (India Standard Time - Kolkata, YouTube link: https://www.youtube.com/watch?v=NTBtQGorymg

9. **Chief Guest & Resource Person:** Delivered a talk on **"Nano-optics and its Applications"** in the Lectures series on **"Recent Development in Nanotechnology"** organised by Department of Physics, Pachamuthu College of Arts & Science for Women, Dharmapuri, on 25.02.2023

10. **Invited Talk:** Delivered a talk on **"Fascinate Plasmonic Metamaterials: Theory, Optical Design, Analysis and Applications" National Conference on Science of Materials and its Advancements in Recent Trends (NCSMART - 2023)** organised by Periyar University Centre for Post Graduate and Research Studies, Dharmapuri, Tamil Nadu, in Association with Indian Spectrophysics Association, Chennai, held during 23-24, February, 2023, IT-3, page: 5-7**, ISNB - 978-93-81992-15-9**

11. **Dr. S. Gunasekaran Endowment Lecture - III (2022-2023)** delivered Special Lecture through video conference (google meet) with hybrid mode on **"Focal Engineering in Solar Energy System"** in the Department of Physics, St. Joseph College (Autonomous), Trichy, held on 28.09.2022

12. **Invited Talk:** Delivered a talk on the topic "**Advanced Laser Beam Shaping Optics for Nuclear Waste Management"** in the **International Virtual Conference on Light Applications in Science and Engineering Research (LASER-2022)** in commemoration of Remembrance of **Prof. S. Mohan**, Organised by Department of Physics & Research Forum of Department of Chemistry, St. Peter's Institute of Higher Education and Research, Avadi, Chennai – 600 054, in Association with Indian Spectrophysics Association (ISPA) Chennai, India, held on 14.09.2022, September, 2022, IT-3.

13. **Invited talk delivered on "Solar Cells (Comparative Performance of Silicon and Dye Sensitized Solar Cells)"** in the **National Webinar on Energy Storage Materials (NWESM - 2022)** Organized by Department of Physics, The Gandhigram Rural Institute – Deemed to be University, Dindigul, Tamilnadu, India – 6**24 302**, held on 14th, July, 2022.

14. **Chief Guest and Resource Person:** Delivered Chief Guest address and a talk on the topic "**Nanomaterials Research and its Applications in Various Interconnected Fields"** in the **National Science Day-2022** held on 05.03.2022 Organised by Department of Physics, Avvaiyar Government College for Women, Karaikal (Govt. of Puducherry) – 609 602.

15. **International Webinar Series** **on** "**Focal Engineering in Solar Cells**" as a part of the series of Distinguish International Webinars organized by **Prof. Roberto Acevedo** and the electronic journal **Revista INGLOMAYOR**. Santiago (CHILE), August 06, 2021, at 9.00 am IGMT(UST)-3, IST 5.30 pm) https://www.youtube.com/watch?v=RlN7haZWX94&t=4184s,

16. **Invited talk** delivered on **"Interaction of Extreme Laser Radiation with Radioactive Hazardous Materials" International Virtual Conference on Physics of Emerging Materials and Molecules (IVCPEMM -2021)** Organized by PG & Research Department of Physics, Sri Vidya Mandir Arts and Science College, (Autonomous) Uthangarai, Krishnagiri, Tamilnadu, India – 63**6902**, in Collaboration with Indianspectrophysics Association (ISPA), Chennai, India, held on 4 -5, March, 2021**, https://us02web.zoom.us/j/81807230948?pwd=ZE1JdVQ2b2dIbWIvNHd6c09pbFN3QT09**, Meeting ID: 818 0723 0948, Passcode: 359463, Youtube Link - Day 1: https://youtu.be/qZGXcwIdhH0

17. **International Webinar Series** **on** **"Sophisticated Lasers for Nuclear Waste Management"** organised by Distinguished **Prof. Roberto Acevedo** and **Revista INGLOMAYOR (ingeniena Global Mayor)** conducted at **Chile** on 21.11.2020 at 9.00 am IGMT(UST)-3, IST 5.30 pm) https://us02web.zoom.us/j/89846167444?pwd=QXVjdGorcDhJZDBiVkN6c1VZWjJPQT09, https://www.youtube.com/watch?v=jSBP65epGHE&t=2628s

18. **Invited Talk:** Delivered a talk on "**Giant Laser as a tool for Nuclear Waste Management**" in **International Webinar** on "**Materials for Current Trends and Future Challenges" (MCTFC 2K20)** at PG Department of Physics, Government Arts College for Women Salem – 636 008, Tamil Nadu, India, held on 15.07.2020, Time: 10.30 am – 12.00 pm, google meet https://meet.google.com/nra-wmbc-img, youtube link: https://youtu.be/Zc3v7SxOYQs, https://www.youtube.com/watch?v=jSBP65epGHE&t=2628s

19. **Invited Talk:** Delivered a talk in **Commemoration of International Day of Light (IDL) & 60 Years of Laser Innovation:** A Webinar Lecture on "**Boosting Laser Pulses to Extreme Light Intensities Through Optical Parametric Chirped Pulse Amplification (OPCPA) Technique**" at PG and Research Department of Physics, TBML College, Poraiyar – 609307, Tarnquebar (Taluk) Tamilnadu. Held on 12.06.2020, Time: 10.30 am – 12.00 pm, google meet: https://meet.google.com/xjt-dnai-erd, youtube link: https://www.youtube.com/watch?v=-nRrIaIJrE4

20. **Chief Guest and Resource Person:** Delivered on the Topic "**Clean, Green and Renewable Energy Technologies Through Advanced Materials"** in the **TNSCHE Sponsored International Conference on Advanced Materials Processing (ICAMPAT-2020)**" on 6th and 7th March, 2020 organised by PG & Research Department of Physics, Arignar Anna Government Arts College, Villupuram, Tamilnadu, India - 605 602, pg. 1-3.

21. **Chief Guest and Resource Person:** Delivered Chief Guest address and a talk on the topic "**Science for the People, People for the Science" and Sub-Title: "Superstition and Modern Science"** in the **National Science Day & Inauguration of Physics Association** held on 28.02.2019 Organised Department of Physics, Avvaiyar Government College for women, Karaikal (Govt. of Puducherry) – 609 602.

22. **Invited Talk:** Delivered a talk on the topic "**Recent Trends in Laser Development and Multidisciplinary Applications to Science and Industry**" in the **National Conference on Recent Trends in Advanced Material Science" (NCRTAMS - 2018)** held on 5th February, 2018 organised at Department of Physics, Selvamm Arts and Science College (Autonomous), Namakkal, Tamilnadu, page. 4

23. **Keynote Address & Invited Talk:** Delivered a keynote address and a talk on the topic **"Road Map to Graphene: From Noble Prize to Surface Plasmon Resonance Application**" in the **International Conference on Recent Trends in Material Science and Technology (ICRTMST-2018)** held during 19 -20th January, 2018 organised by PG & Research Department of Physics, Sri vijay Vidyalaya College of Arts and and Science College, Nallampalli – 636 807, Dharmapuri (Dt.), Tamilnadu, pg. 4.

24. **Keynote Address & Invited Talk:** Delivered a keynote address and a talk on the topic "**Environmental Based Advanced Graphene Nanomaterials for Photovoltaic, Supercapacitor & Sensor Applications**" in the **4th National Conference on Nanotechnology for Environmental Applications** held on 5th January, 2018 organised by Albert Einstein Association & Department of Physics, E.R.K Arts and Science College, Erumiyampatti – 636 905, Kokkarapatti (PO), Pappireddipatti (TK), Dharmapuri (Dt.),Tamilnadu.

25. **Keynote Address & Invited Talk:** Delivered a keynote address and a talk on the topic "**Graphene Based Advanced Materials for Photocatalytic, Photovoltaic and Supercapacitors**" in the **National Conference on Advancing Materials for Photovoltaic and Supercapacitors** held on 23rd November, 2017 at Department of Physics, Mahendra Engineering College (Autonomous), Mahendrapuri, Mallasamudram, Tiruchengodu, Namakkal, 637501, Tamilnadu.

26. **Keynote Address & Invited Talk:** Delivered a keynote address and a talk on the topic "**Advanced Materials in Energy and Environmental Applications**" in the **One Day Research Conference on Advancing Materials Research** held on 21st August, 2017 at PG & Research Department of Physics, Mahendra Arts and Science College, Kalippatti, Tiruchengodu, Namakkal, 637501, Tamilnadu.

27. **Keynote Address & Invited Talk:** Delivered a talk on the topic "**Spectroscopy of Solar Energy Conversion**" in the **National Seminar on Spectroscopy and Its Applications** held on 16th August, 2017 at Department of Physics, Sri Kailash Women's College, Thalaivasal, Attur, Salem - 636 112, Tamilnadu.

28. **Invited Talk:** Delivered a talk on the topic "**Latest Development in Science and Technology**" in the **Two Day Orientation programme on 'Recent Trends in Science and Technology' (RTIST'2017) Sponsored by Tamil Nadu State Council for Science and Technology (TNSCST)** held on 6th and 7th July, 2017 at Department of Physics, Chikkaiah Naicker College, Erode – 638 004, Tamilnadu.

29. **Guest Lecture:** Delivered on the Topic **"The Recent Advancements of Science in Engineering"** in the **Annual National Level Technical Symposium SARLIE 2K17.2**" organized by the Department of Science and Humanities, Jayalakshmi Institute of Technology, Thoppur – 636 352, Tamilnadu, Indian on 4.3.2017.

30. **Invited Talk:** Delivered on the Topic "**The Role of Nanoscience & nanotechnology in the Sustainable Livelihood**" in the "**National Conference on Nanoscience and Nanotechnology in the Livelihood Enhancement of Common Man (NSLECM-2017)** sponsored by **BRNS, Mumbai & TNSTC, Chennai,** organized by Department of Physics, Arul Anandar College (Autonomous), DST – FIST Sponsored College, Karumathur – 625 514, Madurai District, Tamilnadu, India, during 8-9, February, 2017

31. **Invited Talk:** Delivered on the Topic "**Animations for Understanding of Solar Energy to the Socially Downtrodden Students**" in the **Career Guidance and Counselling Program on Solar Power Generation for SC/ST Students** jointly organized by Departent of Energy Studies & Rajiv Gandhi National Institute of Youth Development (RGNIYD), Chennai, held at Periyar University, Salem, Tamilnadu, India, during 6-10, February, 2017

32. **Keynote Address & Invited Talk:** Delivered on the Topic "**The Role of LASER and SASER in Optoelectronics Applications**" in the **National Conference on Recent Trends in Materials Science - 2017 (NCRTMS - 2017)** held 25th January, 2017 organized by PG & Research Department of Physics, Thiruvalluvar Govt. Arts College, Rasipuram – 637 401, Tamilnadu, India.

33. **Keynote Address & Invited Talk:** Delivered on the Topic "**Tight Focusing Methods for Optoelectronic Applications**" in the **International Conference on Recent Trends in Materials Science and Applications - 2017 (RTMSA - 2017)** held 6th January, 2017 organized by Department of Physics, Sri Meenakshi Govt. Arts College for Women (A), Madurai 625 002, Tamilnadu, India.

34. **Invited Talk:** Delivered on the Topic "**Laser Beam Shaping Techniques for Efficient Solar Cell Manufacturing**" in the **National Conference on "Material Science and Technology: Recent Trends And Future Prospects (NCMST:RTFP-2016)"** on 29.12.2016 organised by PG & Research Department of Physics, Arignar Anna Government Arts College, Villupuram, Tamilnadu, India - 605 602, pg. 2-3.

35. **Invited Talk:** Delivered on the Topic "**Tight Focusing Techniques for Optoelectronic Devices**" in the **International Conference on Modern Materials Research - 2016 (ICMMR- 2016),** 19-20, December, 2016 organized by PG and Research Department of Physics, Sri Vidya Mandir Arts and Science College, Katteri, Uthangarai, Krishnagiri

(District), Tamilnadu, India – 636 902, in Collaboration with Indian Spectrophysics Association (ISPA), Chennai - 600 030, IT-02, pg. 08-09, **ISBN: 978-93-85648-86-5, Published by Eswari Publishers and SLAA Publications Pvt. Ltd., Bangalore – 32.**

36. **Invited Talk:** Delivered a Lecture on the Topic "**Parallel Methods Guided by Theory and Computation to Design and Discovery for Materials Science Applications**" in the **State Level Seminar on Materials Science and Its Applications** organized by PG & Research Department, Sir Vijay Vidyalaya College of Arts & Science, Dharmauri – 636807 on 24th September, 2016, pg. 1-2.

37. **Keynote Address &** Delivered a Talk on the topic **"Nano-Optics for Gravitating Applications in Nanotechnology"** in the **National Conference on Gravitate Applications in Nanotechnology (GAIN' 2016)** Jointly organized by Albert Einstein Association & Department of Physics, E.R.K Arts and Science College, Erumiyampatti – 636 905, Kokkarapatti (PO), Pappireddipatti (TK), Dharmapuri (Dt.),Tamilnadu on 21.7.2016, pg.3-5.

38. **Keynote Address &** Delivered a Talk on the topic **"Light-Trapping Schemes and Nanomaterials to Boost Efficiency of Solar Cells"** in the **National Conference on Energy, Environment & Ethics (E^3 - 2016)** organized by Department of Engery Studies, Periyar University, Salem – 636 011, Tamilnadu & jointly organized by Centre for New and Renewable Energy Studies (CNRES), Periyar University, Salem – 636 011, Tamilnadu, during 28-29, March, 2016

39. **Invited Talk:** Delivered a Talk on the topic, "**கிராமப்புற மாணவர்களும் அறிவியலும்**" in the **National Service Scheme – (NSS Unit I & II) Special Camp** organized by Govt. Arts College for Women, Salem - 8 held (during 21.3.2016 – 27.03.2016) at Govt. School, Kondappanaickanpatti– 636 008 on 23.3.2016.

40. **Invited Talk:** Delivered a Lecture on the topic, "**Light-Trapping Nanomaterials to Boost Efficiency of Solar Cells**" in the "**National Seminar on Advanced Materials and Applications'** organized by Department of Physics, Karpagam University, Coimbatore on 11th and 12th of March, 2016

41. **Invited Talk:** Delivered a talk on the topic "**Nanomaterials for Renewable Energy Production"** in the N**ational Conference on Recent Trends in Nanomaterials** organized by Department of Physics, AVS College of Arts & Science, Attur main Road, Ramalingapuram, Salem – 636 106, Tamilnadu on 19th February, 2016.

42. **Invited Talk:** Delivered a talk on the topic "**Laser Beam Shaping Technique for Efficient Solar Cell Manufacturing"** in the **International Conference on Recent Advances in Applied Sciences** organized by Science and Humanities Association, St. Peter's University, Chennai & Indian SpectroPhysics Association (ISPA) Chennai, held on 11-13, February, 2016, IT-40, Page 75-76.

43. **Invited Talk:** Delivered a talk on the topic "**Nano-Optics for Biologists"** in the **National Workshop on Nanotechnology for Biologists** organized by Department of Zoology, School of Life Sciences, Periyar University, Salem – 636011, Tamilnadu, held on 6-8, January, 2016.

44. **Invited Talk:** Delivered a talk on the topic **"Light at Extreme Intensities – Titanium Sapphire Laser & Its Applications"** in the **International Conference on Latest Developments in the Applications of Laser Technology'** organized by Departments of Chemistry & Physics, PSGR Krishnammal College for Women, Coimbatore - 641 004, Tamilnadu, held on 7.12.2015, Page No.15.

45. **Invited Talk:** Delivered a talk on the topic "**Laser Beam Shaping for Efficient Solar cells Manufacturing"** in the **National Workshop on Recent Developments in Energy Materials** held at Dept. of Physics, Shri Sakthi Kailassh Women's College, Military Road, Ammapet, Salem – 636 003 held on 12.09.2015, Page No.6-8.

46. **Invited Talk:** Delivered a talk on the topic "**Nano-optics for Efficient Solar cells"** in the **National Conference on Nano-optics for Solar Cells** held at Dept. of Physics, Kailash Women's College, Mamarathu Bus Stop, Tharamangalam-Nangavalli Main Road, Periyasoragai (PO), Nangavalli, Salem – 636 502 held on 20.07.2015.

47. **Resource Person:** Delivered a Key note address and lecture on "**Nano-optics for Efficient Harvesting of Solar Energy"** in the **National Conference on Solar Energy and Its Applications** held at Dept. of Physics, E.R.K Arts abd Science College, Erumiyampatti, Kokkarapatti (PO) – 636 903, Dharmapuri (District) held on 15.07.2015, Page No. 14.

48. **Special Lecture:** Delivered a talk on the topic "**Renewable Energy Sources**" in the **One Day UGC Sponsored Special Lecture Series** organized by the PG & Research Department of Physics, Thiruvalluvar Govt. Arts College, Rasipuram, Namakkal – 637 401 on 05.02.2015.

49. **Invited Talk:** Delivered a talk on the topic "**Spectroscopic, Microscopic & Nanoscopic Characterization of Materials**" in the **One Day State Level Seminar on Recent Advanced Spectroscopy Methods in Research (RASMR-2014)** organized by the PG & Research Department of Physics, Mahendra Arts & Science College, Kalippatti, Namakkal – 637 501 on 10.10.2014.

50. **Institutional Seminar:** Delivered a special lecture on the topic "**Interaction of Laser with Nanomaterials**" organized by the Department of Physics, Muthayammal Memorial College of Atrs & Science College, Kakkaveri (Post), Rasipuram, Namakkal (Dt.) Tamilnadu, during **Physics Association Inauguration function & Guest Lecture Programme** on 11.09.2014.

51. **Key Note Address & Delivered a Special Lecture on the topic "Ti-Sa Laser & Its Applications"** in the **State Level Seminar on Laser & Spectroscopy (SLSLS-2014)**

organized by the Department of Physics, Morappur Kongu College of Arts & Science, Morappur – 635 305 in collaboration with **Indian SpectroPhysics Association (ISPA)** on 28.08.2014.

52. **Inaugural Address:** Delivered as a Chief Guest in the **"Workshop on Optics"** sponsored by **Tamil Nadu State Council for Science and Technology (TNSCST)** organized by Department of Physics, Chikkanna Government Arts & Science College, Tiruppur, Tamilnadu – 641 602 on 13.08.0214.

53. **Invited Talk:** Delivered a Special Lecture on the topic "**Ti-Sa Laser System for Laser-Matter-Interactions at Extreme Irradiance**" in the N**ational Conference on Advanced Materials (NCAM-2014)** organized by the PG & Research Department of Physics, Sri Vidya Mandir Arts & Science College, Uthangarai – 636 902 in collaboration with **Indian SpectroPhysics Association (ISPA)** on 18.07.2014.

54. **Invited Talk:** Delivered a Special Lecture on the topic "**Role of Nano-Optics in Efficient Solar Cells**" **UGC Sponsored Programme** organized by the Department of Physics, Kanchi Mamunivar Centre for P.G & Research Studies (Govt, of Puducherry), Airport Road, Lawspet, Puducherry - 605 008 on 24-03-2014

55. **Institutional Seminar:** Delivered a special lecture on the topic "**Nano-Materials for Photonic Applications**" a seminar organized by the Department of Physics, Periyar University, Salem -636 011, Tamilnadu on 19.03.2014

56. **Key Note Address & d**elivered on the topic "**Theoretical and Simulation Methods & Nanotechnology Applications in Solar Cells**" in the one day **National Level Seminar on Nanomaterials in Solar Cell Applications** organized by the Department of Physics, Velalar College of Engineering and Technology, Erode – 638 012, Tamilnadu, held on 14.03.2014.

57. **Key Note Address** & Delivered a talk on the topic "**Recent Developments in Materials Science**" in the **National Level Seminar on Advances in Materials Science** organized by the Department of Physics, ERK of Arts and Science College for Women, Erumiyanpatti, Kokkarapatti - 636 905, Dharmapuri District, Tamilnadu held on 22.02.2014.

58. **Invited Talk:** Delivered a Special Lecture on the topic "**Research & Method - How to Write a Research Paper**" for Science Faculty Members at A.V.S Arts and Science College, Salem-636 106, Tamilnadu on 29-10-2013

59. **Institutional Seminar:** Delivered a special lecture on the topic "**Physics and its Applications in day-to-day Life**" organized by the Department of Physics, Kandasamy Kandar College, Paramatti Velur, Namakkal (Dist.), Tamilnadu on 04.09.2013.

60. **Invited Talk:** Delivered a special Lecture on the topic "**Comparison Performance of Silicon and Dye Sensitized Solar Cells**" in the **International Conference on Recent**

Advances in Physics (ICRAP-2013) collaboration with **Indian SpectroPhysics Association (ISPA)** organized by the Department of Physics, Sri Vidya Mandir Arts & Science College, Uthangarai – 636 902 on 13.08.2013.

61. **Institutional Seminar:** Delivered a key note address & special lecture on "**Renewable Energy Resources - SOLAR CELLS**" held on 28-02-2013, at the **One day Seminar on Renewable Energy Resources and Celebration of National Science Day** organized by Department of Physics, Pachamuthu College of Arts & Science for Women, Erode, Dharmapuri, Tamilnadu.

62. **Institutional Seminar:** Delivered a Special lecture on "**Renewable Energy Resources - SOLAR CELLS**" held on 14-02-2013, at the **Inauguration of Function of One Day Special Lecture** organized by Department of Physics, Vellalar College of Arts & Science for Women, Erode, Tamilnadu.

63. **Institutional Seminar:** Delivered a Special lecture on "**Recent Trends in Harnessing of Renewable Energy Resources - SOLAR CELLS**" held on 14-09-2012, at the inauguration of function of **One day State level Seminar on Recent Trends in Harnessing of Renewable Energy Resources** organized by Department of Physics, Gonzaga College of Arts & Science for Women, Elathagiri, Krishnagiri, sponsored by TNSCST & NCSTC, Tamilnadu.

64. **Invited Talk**: Delivered a Special lecture on "**Production of High Power TeraWatt Ti-Sa Laser by OPCPA Method and its Applications**" at **Tamil Science Conference organised by Sudhesi Tamil Movement, Karaikudi & Periyar University**, Salem, during 23-25, August, 2012.

65. **Institutional Seminar:** Delivered a lecture on "**Light at Extreme Intensities**" held on 18-08-2012, at the **Inauguration Function of Physics Association** organized by Department of Physics, Karpagam University, Coimbatore, Tamilnadu.

66. **Institutional Seminar:** Delivered a lecture on "**Role of Physics in Engineering**" held on 26-03-2012, at the **Inauguration of function of Science and Humanities Association** organized by Department of Physics, Ganesh College of Engineering, Salem, Tamilnadu.

67. **Invited Talk:** Delivered a lecture on "**Nano-Optics for Advanced Optical Storage**" held on 14-03-2012, at the **Workshop on Functional Materials** (WFM-2012) organized by Department of Physics, Periyar University, Salem-11, Tamilnadu.

68. **DST - ASPIRE programme for (+1) H. Sc. Student:** Delivered a lecture on "**Physics - Nano-Optics**" held on 10-02-2011, at the **Jayam College of Engineering**, Dharmapuri, Tamilnadu, organized by Department of Science and Technology, Govt. of India.

69. **Institutional Seminar:** Delivered a lecture on "**Nano-Optics: Materials, Designs & Applications**" held on 22-12-2011, at the **Inauguration of Function of Physics Association** organized by Department of Physics, KSR College of Arts and Science, Tiruchengode, Tamilnadu.

70. **Institutional Seminar:** Delivered a lecture on "**Nano-Optics: Materials, Designs & Applications**" held on 1-10-2011, **One day Seminar Organized by the Einstein Society of Physics** organized by the Department of Physics, ERK of Arts and Science College for Women, Erumiyampatti, Kokkarapatti - 636 905, Dharmapuri District, Tamilnadu.

71. **Institutional Seminar**: Delivered a lecture on "**Nano-Optics: Materials, Designs & Applications**" held on 12-8-2011, **One Day State Level Seminar on Recent Developments in Advanced Materials and Its Applications**, organized by the Department of Physics, Mahendra Engineering College, Namakkal, Tamilnadu.

72. **Resource Person - Refresher Course in Physics** – Delivered Lecture on "**Emerging Trends in Nano-Optics and Modern Spectroscopy**" UGC-Academic Staff College, Bharathiar University, Coimbatore, on 17-06-2011.

73. **Invited Talk**: Delivered a Lecture on "**Spectral and Morphological Studies of Nanocrystalline Silicon Thin Films Synthesized By PECVD Method for Solar Cells**" held on 30-01-2010 organised by the Department of Physics and Electronics, K.S.R. College of Arts and Science, Thiruchengodu, Namakkal, Tamilnadu.

74. **Invited Talk**: Delivered a lecture on "**Light at Extreme Intensities – TeWaTi Laser**" held on 27-01-2010, **Workshop on Recent Trends in Physics and Electronics,** Organised by the Department of Physics and Electronics, Salem Sowdeswari College, Salem, Tamilnadu.

75. **Institutional Seminar**: Delivered a lecture on "**Emerging Trends in Nano-Optics and Modern Spectroscopy**", **held on 09.10.2009, during 14-15 hours in Fröhlich room, Department of Optics and Quantum Electronics, University of Szeged, HUNGARY.**

76. **Institutional Seminar**: Delivered a lecture on "**Academic Education in India**", **held on 08.10.2009, during 12-14 hours in Fröhlich room, Department of Optics and Quantum Electronics, University of Szeged, HUNGARY.**

77. **Invited Talk: d**elivered a lecture on "**Generation of Needle of Longitudinal Polarized Non Diffracting Beam using High NA Lens Axicon**" **International Conference LEI-2009, Light at Extreme Intensities, Scientific Opportunities and Technological issues of the Extreme Light Infrastructure, 16-21. October, 2009, Brasov, ROMANIA.**

78. **Invited Talk**: Delivered a lecture on "**Emerging Trends in Nanooptics and Modern Spectroscopy spotlighting Light Trapping Scheme of Microlenses for Solar Cells**" in the **National Seminar on Modern Optics and Spectroscopy**, held on August 13-14, 2008, Organized by Department of Physics, All Saints' College, Trivandrum.'

79. **Invited Talk**: Delivered a lecture on "**Some Characteristics Study on Nanostructured Thin Silicon Films for Solar Cells**" in the **National Conference on Emerging Trends in Engineering and Technology spotlighting Nanomaterials, Nanotechnology & Embedded Systems** on 24th & 25th April, 2008 organised by Channabasaveshwara Institute of Technology, Tumkur, Karnataka.

80. **Key Note Address &** Delivered on the topic "**Recent Trends in Micro Optics**" in the **Seminar organized by the Einstein Society of Physics OPT 'O' FEST '07** at the Department of Physics, Sri Vidya Mandir Arts & Science College, Uthangarai, on 28.9.2007.

81. **Key Note Address** & Delivered a Special Lecture on the topic, "**Optics to Microoptics**", in the **Science and Humanities celebration day** Organised by Department of Physics, Annai Madha Ammal Sheella Engineering College, Erumapatti, Namakkal on 2.8.2007.

82. **Key Note Address** & Delivered a Special Lecture on the topic "**Recent Trends in Modern Physics**" in the **Seminar organized by the Department of Physics during Science day Celebration**, Govt. Arts College, Salem-7, on 28.2.2007.

83. **Resource Person - Refresher Course in Physics – UGC- Academic Staff College, University of Kerala**, delivered lecture on "**Microoptics and Optical Design using ZEMAX Software**" during 20-2-2007 to 21-2-2007

84. **Resource Person:** Delivered a a Special Lecture on the topic "**Emerging Trends in Optics**" in the **National Conference on Emerging trends in Physics and Electronics** on 7th and 8th Feb – 2007, Department of Physics and Electronics, P.G.P college of Arts and Science , Namakkal.

85. **Key Note Address** & Delivered a Special Lecture "**Emerging Trends in Nano-Optics"** in **Dr. A. P. J. Abdul Kalam Association Inaugural Function** organized by the Department of Physics, Harur Muthumasi Arts and Science College, Harur on 18.8.2006.

86. **Key Note Address** & Delivered on the topic "**Traditional Physics to Modern Physics**" in the **One Day Seminar** organized by the Department of Physics, Thiruvalluvar Govt. Arts College, Rasipuram on 2.3.2006.

87. **Resource Person - Refresher Course in Physics – Academic Staff College,** Bharathidasan University, Tiruchirappalli, delivered lecture on " **Microlenses in Microoptics**" during 18-1-2006 to 7-2-2006 (19.01.2006)

88. **Resource Person:** Delivered a lecture on "**Macro-Optics to Micro-Optics"** in the **Workshop on Recent Trends in Physical Sciences Research** held at Dept. of Physics, Periyar University, Salem on 29 & 30, August 2005.

IV. Details of Various Workshops Attended/Delivery Talks: Names of Institutions, Titles Etc.

Sl. No.	Organisation	Period		Title of workshop
		From	To	
1	A.V.C. College, Mannampandal, Mayiladuturai	14-5-1993	7-6-1993 (25 days)	Workshop on Microprocessor and its Applications

2	**A.V.C. College, Mannampandal, Mayiladuturai**	**6-1-1994**	**8-1-1994 (3 days)**	**Workshop on PCB Fabrication and its Applications**
3	**A.V.C. College, Mannampandal, Mayiladuturai**	**27-1-1995**	**28-1-1995 (Two days)**	**Workshop on Recent Trends in Crystal Growth**
4	**Crystal Growth Centre, Anna University, Chennai – 25.**	**7-12-2004**	**10-12-2004 (4 days)**	**Workshop on Crystal Growth and Applications of Advanced Materials for Opto-Electronics**
5	**Dept. of Physics, Periyar University, Salem-11**	**29-8-2005**	**30-8-2005 (Two days)**	**Workshop on Recent Trends in Physical Sciences Research**
6	**National Institute of Technology, Tiruchirappalli and Collaborated with WRI, BHEL, Trichy**	**9-1-2007**	**10-1-2007 (2 days)**	**Workshop on Laser Materials Processing**
7	**Dept. of Physics, Periyar University, Salem-11**	**31-3-2008**	**(One day)**	**One day workshop on Recent Developments in Nanomaterials Research**
8	**ICTP, ITALY**	**27-10-2008**	**30-10-2008 (4 days)**	**Workshop on Nanoscience for Solar Energy Conversion**
9	**Dept. of Physics, Periyar University, Salem-11**	**12-3-2009**	**(One day)**	**Workshop on Recent Developments in Photonic Materials Research**
10	**Centre for Nanoscience and Nanotechnology Periyar University Salem-11**	**13-8-2012**	**14-8-2012 (Two days)**	**National Science Academies' Lecture workshop on 'Modern Trends in Chemistry'**
11.	**Department of Zoology School of Life Sciences Periyar University Salem-11**	**06-01.2016**	**08-01.2016 (Three Days)**	**National Workshop on Nanotechnology for Biologist**

V. Titles of the theses/projects for each degree, students name and the year of the award of the degree.

(a). The following Ph.D Scholars under my guidance at Periyar university & Name of External Examiners conducted viva-voce examniations:

1. **Dr. R. Rengaiyan, (1PHY) "A Novel Study on Light Trapping Scheme for Thin Silicon Solar Cells using Microlenses"- (03-12-2008) - Name of External Examiner - Prof. K. Tamilmaran, Bharathidasan University**

2. **Dr. S. Selvanandan, (2PHY) "A Modern Lens Design and Its Characteristics Study for Free Space Optical Interconnections"- (30-01-2009) Name of External Examiner – Prof. S. Barathan, Annamalai University.**

3. **Dr. M. K. Subramanian, (3PHY) "Spectroscopic Studies of Some Polyatomics" – (09-04-2009) - Name of External Examiner – Prof. R. Jayavel, Anna University, Chennai.**

4. **Dr. K. B. Rajesh, (4PHY) "A Theoretical Study on Sub-wavelength and Super-resolution Non-diffracting Beam for High Density Optical Recording"- Full Time (29-04-2009) - Name of External Examiner – Dr. A. R. Ganesan, IIT (M).**

5. **Dr. A. Kalyanasundaram, (5PHY) "An Investigation to Enhance the Coupling Efficiency between Laser Diode and Single Mode Fibre via Microlens in Microoptics"- (28-09-2009) – Name of External Examiner - Dr. T. K. Parasuraman, Boompuhar College.**

6. **Dr. K. Vasudevan, (6PHY) "Study of Geometrical, Electronic Structure, Spectral and NLO Properties of Some Phthalonitrile Dye Sensitizers for Solar Cells"- (26-11-2010) - Name of External Examiner – Prof. S. Moorthy Babu, Anna University, Chennai.**

7. **Dr. S. Manimegalai - (06PHP0220) - "Quantum Chemical Calculations of Some Modified Phthalocyanine Dye Sensitizers for Solar Cell Applications" – (27-04-2012) - Name of External Examiner Prof. P. Vickraman, Gandhigram Rural Deemed Central University.**

8. **Dr. N. Sakthivel - (05PHP0342) - "Growth, Characterization and Theoretical Investigations on Some Organic Crystals" – (10-12-2012) - Name of External Examiner – Prof. K. Srinivasan, Bharathiar University.**

9. **Dr. V. Ravi - (05PHP0330) - "Focus on Engineering with Vector Diffraction Theory for Nanometer Scale Applications" – (11-01-2013) – Name of External Examiner - Dr. L. Senthilkumar, Bharathiar University.**

10. **Dr. A. Prakasam - (10PHY) "Structural and Electronic study of Some Nitrile Dye Sensitizers for Solar Cell Applications via Density Functional Theory" – (12-04-2013) - Name of External Examiner - Prof. P. Vickraman, Gandhigram Rural Deemed Central University.**

11. **Dr. M. Geetha - (09PHF0466) - "Preparation, Characterization and Photovoltaic Performance of Modified TiO_2 Nanoparticles by Sol-Gel Technique" - Full Time, Rajiv Gandhi Fellow - (16-09-2013) Name of External Examiner – Dr. S. Anandan, Associate**

Professor, Nanomaterials & Solar Energy Conversion Lab., Department Of Chemistry, National Institute Of Technology, Trichy - 620 015

12. **Dr. P. Senthilkumar - (12PHY)- DOJ: (7.1.2009) - "Quantum Chemical Investigations of Some Stilbene Derivatives for Dye Sensitized Solar Cell - Full Time, UGC, Project Fellow – (07-03-2014) Name of External Examiner – Prof. P. Kulandaivel, Bharathiar University.**

13. **Dr. L. Arivuselvam - (10PHP0618) - Photovoltaic Performance Study on Comparison of Dye Sensitized and V-Grooved Silicon Solar Cells - (26-03-2010) - Thesis Submitted on 23-05-2014 – Viva-Voce Examination on 04.09.2014 - Name of External Examiner – Dr. R. Kannan, Associate Professor, Anna University College of Engineering, Dindigal.**

14. **Dr. K. Lalithambigai - (11PHF0742) - (R11PHY01) DOJ: (02-03-2011) as Full Time, UGC, Non-SAP, Fellow - Synopsis "Vectorial Approach on the Investigation of Tightly Focused Azimuthally Polarized Beam for Optical Trapping Applications" Thesis Submitted on 23-05-2014, Viva-voce Examination on 12.05.2015 - Name of External Examiner – Prof. V. Ramasamy, Annamalai University.**

15. **Dr. K. Suguna - (10PHP0787) - Theoretical and Experimental Analysis of Solvent Effect in Natural Sensitizer for DSSC Applications - (11-01-2010) – Thesis Submitted on 24-12-2014. Viva-Voce Examination on 21.08.2015 - Name of External Examiner – Prof. K. Ramamurthy, SRM University.**

16. **Dr. P. Ramu - (10PHP0853) - Synthesis of Various Surfactant Assisted Nano-ZnO and Investigations on the Influence of Additives in its Property Modifications - (20-01-2010) - Part time Scholar- Synopsis Submitted on 25.09.2014. Thesis Submitted on 12.05.2015, Viva-Voce Examination on 20.11.2015 - Name of External Examiner - Dr. T. C. Sabari Girisun, Bharathidasan University**

17. **Dr. K. M. Prabhu - (11PHP0884) - Improved Performance of Natural Dye Sensitized Solar Cell Using Modified TiO_2 Nanoparticles by Sol-Gel Technique – Synopsis Submitted on 23.05.2014 – Jointed on (12-01-2011) as a Part time Scholar - Thesis Submitted on 12-11-2014, Viva-Voce Examination on 18.01.2016 - Name of External Examiner – Dr. K. B. Rajesh, Chikkanna Govt. Arts & Science College, Tiruppur.**

18. **Dr. P. Sakthivel - (12PHP0964) - Quantum- Chemical Study of Structure and Spectral Properties of Some Organic Nitrile Dye Sensitizers for Dye Sensitized Solar Cells Applications - (12-09-2012) - Part time Scholar – Synopsis Submitted on 26.06.2015, Thesis Submitted on 27.01.2016, Viva-Voce Examination on 27.07.2016 - Name of External Examiner - Dr. M. Sivakumar, Associate Professor, Department of Science, Amirta Vishwa Vidyapeetham University, Ettimadai, Coimbatore.**

19. **Dr. D. Sakthi - (12PHP1024) - Geometrical, Electronic Structure, Spectral And NLO Properties of Some Nitrile Dye Sensitizers For Solar Cells Using Quantum Chemical Calculations - (10-12-2012) - Part Time Scholar - Synopsis Submitted on 03.12.2015,**

Thesis Submitted on 31.05.2016 - Viva-Voce Examination on 7.10.2016 - Name of External Examiner – Dr. S. Chandra, Annamalai University.

20. Dr. M. Prakasam - (14PHF1294) - (R14PHY05) - DOJ: (06.11.2014) - "Efficiency Improvement of Some Organic Sensitizer for NLO and Dye-Sensitized Solar Cells Application: A First Principle Study"- Full Time Scholar - (06.11.2014) - Synopsis Submitted on 28.11.2016, Thesis Submitted on 03.03.2017, Viva-Voce Examination on 12.10.2017 - Name of External Examiner – Dr. K. Ramachandran, UGC-FRP, Bharathiar University.

21. Dr. C. Mohanasundaram - (11PHP1316) - Investigation on Generation and Manipulation of Transversely Polarized Focal Fields using Vector Diffraction Theory - (31-01-2011) - Part time Scholar - Synopsis Submitted on 18.08.2016 – Thesis Submitted on 30.01.2017, Viva-Voce Examination on 10.11.2017, Name of External Examiner - Prof. K. Tamilmaran, Bharathidasan University.

22. Dr. A. Priyadharsan - (R14PHY04) – Multifunctional Reduced Graphene Oxide Based Nanocomposite for Environmental Remediation: Clean Water and Antibacterial Activity (15-10-2014) – Full Time Scholar - Synopsis Submitted on 15.02.2018 – Thesis Submitted on 10.01.2019, Viva-Voce Examination on 3.10.2019, Name of External Examiner - Prof. Suresh Mathew, Mahatma Gandhi University, Kottayam, Kerela.

23. Dr. A. Arunkumar - (16PHF2028)– Analysis of the Electronic Transport and NLO Properties of Some Organic Dye Sensitizers for Optoelectronic Applications – Quantum Chemical Assessment (08-02-2016) – Full Time Scholar - Synopsis Submitted on 30.04.2019 – Thesis Submitted on 27.08.2019 - Viva-Voce Examination on 28.10.2020, Name of External Examiner – Dr. L. Senthilkumar, Professor of Physics, Bharathiar Univesity, Coimbatore, Tamilnadu.

24. Dr. S. Shanavas - (17PHF2206) – Investigation on RGO Based Nanocomposites for Efficient Photocatalytic Degradation of Organic Pollutants in Wastewater - (26-07-2017) – Full-time Scholar, Synopsis Submitted on 19.10.2020 - Thesis Submitted on 11.02.2021- Viva-Voce Examination on 30.03.2021 - Name of External Examiner – Dr. C. Sekar, Professor Head, Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi - 630 003, Tamil Nadu, India.

25. Dr. C. Indira Priyadharshini - (15PHP2202)– Electrochemical Analysis of Ternary and Binary Nanomaterials for Supercapacitor Applications - (23-11-2015) – Part time Scholar – Snopsis Submitted on 02.09.2020– Thesis Submitted on 19.01.2021 - Viva-Voce Examination on 31.03.2021 - Name of External Examiner – Dr. G. Anbalagan, Professor of Physics, Department of Nuclear Physics, Madras Univesity, Chennnai - 6, Tamilnadu.

26. Mr. I. Ragavan - (R17PHY03) - Computational and Experimental Spectroscopic Investigations on Some Bioactive Organic Molecules for Anticancer Treatment - (11-10-2017) – Full-time Scholar - Synopsis Submitted on 9.10.2023 - Thesis Submitted on

29.02.2024, Viva-voce Examination on 22.04.2024 - Name of External Examiner – Prof. N. Sundaraganesan, Dept. of Physics (FEAT), Annamalai University, Chidambaram, Tamil Nadu.

27. **Ms. C. Vidya – (R15PHY04) - Quantum Chemical and Experimental Investigations on Some Organic Single Crystals for Nonlinear Optical Applications - (23-11-2015) – Full time Scholar - Synopsis Submitted on 8.12.2023 - Thesis Submitted on 28.03.2024, Viva-voce Examination on 04.09.2024 - Name of External Examiner Prof. P. Vickraman, Gandhigram Rural Deemed Central University.**

28. **Mr. S. Arun Kumar - (R21PHY04) - Reg. No: PUUJ200410225 - Investigation on Hybrid Supercapacitor by Employing Binder-Free Metal Oxide Electrodes for Energy Storage Application - (07.07.2021) – Full time Scholar - Synopsis Submitted on 8.4.2024 - Thesis Submitted on 5.07.2024 - Viva-voce Examination on 01.10.2024 - Name of External Examiner Prof. G. Velraj, College of Engineering, Anna University, Chennai – 25 - (Through online).**

29. **Mrs. Sarasamreen I – (PUUD190410111) - Novel Engineering of Metal Sulfides with Carbon Composite Electrodes for Energy Storage Application - 30.09.2020 - Full time Scholar - Synopsis Submitted on 15.4.2024 - Thesis Submitted on 26.07.2024 - Viva-voce Examination on 23.09.2024 - Name of External Examiner Prof. G. Muralidharan, Gandhigram Rural Deemed Central University (Through online).**

30. **Mrs. S. Aadheeswari -[Reg. No: PUUJ200410194]-(07.07.2021)-Part-time-PU04124000457)**
31. **Mr. J. Chandrasekaran – [Reg. No. PUUD210410437] – (4.7.2022) - Part-time**
32. **Mrs. A. Vinnarasi - [Reg. No. PUUD220410653] - (23.06.2023) - Full Time**
33. **Ms. A. Durganandhini - [Reg. No. PUUD220410721] - (25.07.2023) - Full Time**

~~**Mrs. A. Nisha - (23-01-2017) - Full time Scholar - Cancelled**~~
~~**Mr. K. Dharmaboopathi - (14-07-2017) - Part-time Scholar - Cancelled**~~

Co-Guidance for the Following Ph. D Candidates:

1. **Dr. D. Rajeswari, Title: "Development of Mineralized Hydroxyapatite Conducting Polymer Composite Coatings on Electron Beam Treated Surgical Grade Stainless Steel for Orthopedic applications" - (Supervisor: Dr. L. Kavitha) – Thesis Submitted on 23.06.2016, Vova-Voce Examination on 15.11.2016 - External Examiner - Dr. D. Ravishankaran, National Centre for Nanoscience and Nanotechnology, University of Madras, Guidy Campus, Chennai – 25.**

2. **Dr. E. Parasuraman, Title: Wave Instabiltiy and Dynamics of Nonlinear Localized Modes in Nanotubes with Higher Order Interactions" - (Supervisor: Dr. L. Kavitha) – Vova-Voce Examination on 20.07.2017 - External Examiner - Prof. Dr. K. Thamilmaran, Professor & Head, Centre for Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirappalli – 620 024.**

3. **Dr. C. Lavanya, Title: Nonlinear Localized Excitations in Magnetized and Unmagnetized Multicomponent Plasma" - (Supervisor: Dr. L. Kavitha) - Vova-Voce Examination on 21.07.2017 - External Examiner – Prof. Dr. Manoravi, Scientific Officer 'G', Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam – 603 102.**

4. **Dr. V. Senthil Kumar, Title: "Propagation of Electromagnetic Soliton and Localized Magnetization Dynamics in the Nanoscale Magnetic Systems" - (Supervisor: Dr. L. Kavitha) – Thesis Submitted on 20.06.2016, Vova-Voce Examination on 20.10.2017, External Examiner – Prof. K. Jayakumar, Gandhigram Rural Deemed Central University. Dindigul.**

5. **Dr. R. Ravichandran, Title: Non-linear Modeling of Pulse Solidary Wave Propagation in Cardiovascular Systems" (Supervisor: Dr. L. Kavitha) – Thesis Submitted on 20.06.2016, Vova-Voce Examination on 24.11.2017; External Examiner – Dr. D. Ravishankaran, National Centre for Nanoscience and Nanotechnology, University of Madras, Guidy Campus, Chennai – 25.**

6. **Dr. Mrs. D. Seetha, Title: Characterization of Archaeological Artifacts Through Spectroscopic and Chemometric Analyses, (Supervosor: Dr. G. Velraj) Thesis Submitted on 20.06.2016, Vova-Voce Examination on 24.11.2017; External Examiner – Prof. Dr. P. Vickraman, Department of Physics, Gandhigram Rural Institute (Deemed University) Gandhigram, Dindigul, - 624 302**

7. **Dr. R. Priya Title: Nonlinear Localized Excitations and Discrete Breathers in Neuronal Microtubles and Nerve Axons (Supervisor: Dr. L. Kavitha) – 28.09.2021 ; External Examiner: Prof. Vincent Mathew, Central Univesity of Kerela – 671 320**

8. **Dr. G. Sowmya Title: Spectroscopic Studies of Some Conducting Polymers with Nano Metal and Metal Oxide Composites (Supervisor: Dr. G. Velraj) - 23.02.2022; Name of External Examiner – Dr. L. Senthilkumar, Professor of Physics, Bharathiar Univesity, Coimbatore, Tamilnadu.**

(b) Other University Ph.D. Public Viva-Voce Examinations Conducted by Invitation:

Sl. No.	Name of Candidate	Name of Supervisor(s)	Title of Thesis	Place held / University	Date of Viva Exam. Conducted
1.	Dr. K. Thiruppathi	Prof. S. Barathan	Studies on the Role of Mineral Admixture and Different Curing Media in Type V Cement Admixtured Paste	Annamalai University	27.07.2009

2.	Dr. Mrs. R. Vasumathi	Dr. P. Neelamegam	Evaluation of Chloride using Embedded System Based Analyser and Artificial Neural Network Computation in Biological and Environmental Samples	A.V.V.M Sri Pushpam College, Bharathidasan University	11.09.2012
3.	Dr. P. Sutharsan	Dr. C. Manohara n	Spectroscopic, Thermal and Mechanical Analysis of Alluvial and Red Clay Materils from Tamilnadu for Industrial Applications	Annamalai University	08.08.2013
4.	Dr. G. Srinivas an	Dr. R. Palani	Ultrasonic and Spectrosocopic Studies of Ternary Mixtures of Liquids and Glasses	Annamalai University	03.10.2013
5.	Dr. K. Santhosh Kumar	Dr. C. Manohara n	Spray Deposition of Undoped and Doped (Indium, Antimont) Tin Sulphide Thin Films for Photovoltaic Applications	Annamalai University	27.03.2014
6.	Dr. S. Sivanant han	Dr. N. Neelaka nda	Studies on Pure and ZnS Added Mixed Single Crystals of $NaCl_xBr_{(1-x)}$ Grown from Aqueous Solutions	M.S.University, Tirunelveli	11.04.2014
7.	Dr. Ms. P. N. Nirmala	Dr. G. Suresh	Synthesis and Characterization of Some Alkaline Earth Metal Oxide Thin Film Grown By Chemical Bath Deposition	Annamalai University	03.09.2014
8.	Dr. N. G. Joby	Dr. P. Venkatachalam	Enhancement of Photocurrent Efficiency of Dye Sensitized Solar Cells by Incorporating Novel Photoanode Structures, New Organic Sensitizers Proficient Electrolytes and Competent Counter Electrodes on Fabrication	Annamalai University	09.10.2014
9.	Dr. P. Praveen	Dr. G. Viruthagir i	Synthesis and Characterization of Multi-Metal Elements Doped TiO_2 Nanoparticles by Sol-gel Technique	Annamalai University	14.10.2014

10.	Dr. Mrs. K. Praba	Prof. V. Ramasamy	Synthesis and Study of Structural, Morphological, Optical and Thermal Properties of Nickel Doped ZnS Nanoparticles Using Effective Surfactants	Annamalai University	14.10.2014
11.	Dr. Ms. R. Paramajothi	Prof. S. B. Kalyana Raman	Ultrasonic Instrumentation, Evaluation of Structural Parameters of Tricomponent Phosphovandate Glasses and Molecular Interaction Studies in Binary Systems of Anilines	Mother Teresa Women's Univesity, Kodaikanal	20.10.2014
12.	Dr. Mrs. I. Kalaiarasi	Prof. V. Ramasamy	Spectroscopic and Thermoluminescence Dosimetric Analysis of Natural Barite	Annamalai University	08.01.2015
13.	Dr. M. Sundarrajan	Prof. V. Ramasamy	Spectroscopical Characterisation and Radiological Hazardous Nature of Recently Excavated Beach Sediments, Kerala, India	M.S. University, Tirunelveli	23.01.2015
14.	Dr. Ms. H. Adline Mahiba	Dr. S. Akilandeswari	Spectroscopic Studies of Heavy Mentals on Greens And Analysis of Soil and Water Through Modelling Technique	N.M.C. College, Marthandam, M.S. University, Tirunelveli	26.03.2015
15.	Dr. Mrs. P. Girija	Dr. S. Parthiban	Studies on Crystal Growth, Structure and Charactersation of Some NLO Materials	Dept. of Chemistry, Annamalai University	24.04.2015
16.	Dr. Mrs. K. Amudhavalli	Dr. N. Neelakanda Pillai	Development of Novel Metal Oxide Thin Film for Solar Energy Harvesting Application	St. Xavier College, Palayamkottai, M.S. University, Tirunelveli	02.06.2015
17.	Dr. K. Navamani	Dr. K. Senthilkumar	Charge Carrier Dynamics in Few II-Stacked Organic Molecules	Bharathiar University	18.09.2015
18.	Dr. I. Joseph Panneerdoss	Dr. S. Johnson Jeyakumar &	Deposition, Charcterization and Theoretical Analysis of Industrially Important In_2O_3 and TiO_2 Thin Films	TBML College, Porayar, Bharathidasan University	29.10.2015

19.	Dr. P. C. Rohmingliana	Prof. R. K. Thapa & Dr. Zoliana	Indoor and Outdoor Radon and Thoron Monitoring in Mizoram with Special Reference to Lunglei, Serchhip and Mamit Districts	Mizoram University (Central University)	17.11.2015
20.	Drs. M. N. Thanuja	Dr. N. Neelakanda Pillai	Growth and Characterization of $Na_xK_{(1-x)}Br$ Single Crystals from Aqueous Solution	S.T. Hindu College, Nagercoil, M.S. University, Tirunelveli	18.02.2016
21.	Dr. A. Rejo Jeice	Dr. K. S. Joseph Wilson & Dr. Sr	Investigation on Various Optical Properties of Low Dimensional Systems	Holy Cross College, Nagercoil, M.S. University, Tirunelveli	21.03.2016
22.	Dr. Mrs. P. Peula Kumari	Dr. (Mrs.) Rachel Oommen	Synthesis and Characterisation of Iron and Silver Nanoparticles for Biological Applications	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	28.03.2016
23.	Dr. A. Chandrasekaran	Dr. R. Ravishankar	Spectroscopic Studies to Assess Quality Pollution and the Associated Radiological Hazards of Soil in Yelagiri Hill with Stsatisitcal Approach	P.G. and Research Department of Physics, Govt. Arts College, Thiruvannamalai, Thiruvalluvar University, Vellore	10.08.2016
24.	Dr. R. Jothimurugan	Prof. K. Thamilmaran	Investigations of Chaos, Beats and Resonances in Certain Non-linear Electronic Systems	Bharathidasan University	29.07.2016
25.	Dr. Mrs. G. Therese Anita	Dr. K. B. Rajesh & Dr.	Effect of Spherical Aberration, Coma and Astigmatism in Tight Focusing of Lser Beam	Anna University College of Engineering Nagercoil	19.08.2016
26.	Dr. Ms. G. Jayaranjani	Dr. S. Bakkialakshmi	A Spectroscopic Investigation on the Inclusion Complexes of two natural Polyphenols with β-Cyclodextrin and one of its Derivatives in Aqueous Solution	Department of Physics, Annamalai University	22.08.2016

27.	Dr. Mrs. M. N. Audline Jini	Dr. A. Dickson Benjamin	Vibrational Spectral Analysis of Materials Used in Self Assembled Monolayers and Formation Dynamics	N.M.C College, Marthandam, M.S. University, Tirunelveli	29.08.2016
28.	Dr. K. Suresh	Prof. K. Thamil maran	Oscillation Quenching and Reviving of Oscillations in Coupled Nonlinear Oscillators	Bharathidasan University	7.12.2016
29.	Dr. Ms. A. Manopriya	Prof. L. Senthilkumar	Understanding the Reaction Mechanism of Volatile Organic Compounds using Theoretical and Experimental Methods	Bharatiar University	21.12.2016
30.	Dr. Mrs. T. Vasuki	Dr. M. Saroja	Investigations on Sol-gel Spin Coated TiO_2 and ZnO Doped TiO_2 Crystalline Thin Films for Photocatalytic Degradation of methylene Blue	Erode Arts and Science College, Erode, Bharatiar University	22.12.2016
31.	Dr. D. Prakash Babu	Dr. H.B. Ramalingam	Low Temperature Synthesis, Characterization and Luminescence Studies of Undoped and Doped Zirconia Nanoparticles	Govt. Arts College, Udumalpt, Bharathiar University	17.04.2017
32.	Dr. P. Soundhirarajan	Dr. S. Sivakumar	Preparation, Characterizations and Application Oriented Antibacterial Activity of Pure and Various Transition Metals Doped $BaSO_4$ Nanoparticles via Chemical Precipitation Method	Dept. of Physics, Annamalai University	19.04.2017
33.	Dr. Mrs. V. Pouchanam e	Dr. A. Tinabaye & R. Dr. Madivanane	Quantum Mechanical Comoutational And FTIR & FTRaman Spectral Analysis of Vibrational Modes of Certain Biologically Important Organic Molecules	Dept. of Chemistry,Dravidian University, Kuppam	04.05.2017
34.	Dr. Arul Teen, Y.P	Dr. T.V.S. Pillai & B. K. Dr. Rajesh,External Prof. Examiner:	Analysis of Beam Propagation Chracteristics and Diffeent Modulation Techniques in Turbulent Atmosphere for Free Space Optical Communication	Faculty of Information and Communication Engineering, University College of Engineering, Nagercoil	12.05.2017

35.	Dr. Mrs. K. Rani Pillai	Dr. P. J. Jojo & Dr. K. Madhuku	Study of Gross Gamma Activity in the Indoor Atmosphere along the South West Coastal Region of Kerela	Fatima Mata National College, Kollam, University of Kerela	12.07.2017
36.	Dr. B. Balachander	Dr. M. Saroja	Synthesis, Characteristizaation and Solar Photocatalytic Properties of Undoped and Transition Metals (Mn & Ni) Doped ZnS Nanomaterials	Erode Arts and Science College (Autonomous), Erode, Bharathiar University, Coimbatore	05.09.2017
37.	Dr. Ms. V. Revathy	Dr. K. S. Joseph Wilson	A Study of Non-Linear Optical Effects in Nanomaterials	Arul Anandar College (Autonomous) Karumathur -625 514 Madurai	27.09.2017
38.	Dr. D. Aravinthan	Prof. M. Daniel	Effect of Interlayer Coupling and Biasing on Spin Transfer Torque Switching in Ferromagnetic Nanopillars	Centre for Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirappalli	19.10.2017
39.	Dr. Antony Dominic Christophe	Dr. N. Neelakanda Pillai & Dr. Sr.	Growth and Characterization of L-Threonine NLO Single Crystals Doped with Zn Ions	Holy Cross College, Nagercoil, M.S. University, Tirunelveli	6.12.2017
40.	Dr.J.Chandra Mohan	Dr. R. Ravisankar	Spectroscopic Characterization of Coastal Sediment Samples along East Coast of Tamilnadu	P.G. and Research Department of Physics, Govt. Arts College, Thiruvannamalai, Thiruvalluvar University, Vellore	12.02.2018
41.	Dr. L. Gobinathan	Dr. K. Boopathy	Synthesis, Crystal Growth and Characterization of Hydrochloride, Cobalt Chloride and Barium Chloride Based Glycine Complexes	Govt. College of Engineering, Dharmapuri	13.02.2018

42.	Dr. Mrs. E. Nirmala	Dr. I. Karthar inal Punitha	Synthesis and Characterisation of nanoparticles for Gas Sensor Applications	TBML College, Porayar, Bharathidasan University	13.02.2019
43.	Dr. Mrs. A. Irene Sobia	Dr. A. Dickson Benjami n	A Study on the Evolution of Solar Magnetic Field in the Heliosphere	N.M.C College, Marthandam, M.S. University, Tirunelveli	11.04.2019
44.	Dr. B. Muthula kshmi	Dr. S. Johnson Jeyaku mar	A Study of Ground Level Ozone & NO_2 Concentrations and Their Related Physical Processes.	TBML College, Porayar, Bharathidasan University	28.06.2019
45.	Dr. B. S. Benila	Dr. S. Mary Delphine	Growth and Characterisation of L-Alanine Based Nonlinear Optical Crystals.	Holy Cross College, Nagercoil , M.S. University, Tirunelveli	05.07.2019
46.	Dr. K. Umamakes hvari	Dr. U. Sankar & Dr. A. Moses	Dielectric Studies of Molecular Interaction of Polar-Polar Mixtures	Scott Christian College, Nagercoil , M.S. University, Tirunelveli	29.08.2019
47.	Dr. J. Thennar asu	Dr. G. Meenak shi	Molecular Interaction Studies in certain Binary and Ternary Liquid Systems exposed to Ultrasonic Frequency	Dravidian University, Kuppam, Andra Pradesh	07.11.2019
48.	Dr. B. Arunkuma r	Dr. S. Johnson Jeyakuma r	A Study on Antibacterial Activity of CuO Nanoparticles Synthesized through Chemical and Biological Routes	TBML College, Porayar, Bharathidasan University	11.12.2019
49.	Dr. M. Sathishku mar	Dr. M. Saroja	Synthesis, Characterization and Antimicrobial Properties of Biosynthesized ZnS Nanoparticles and Cu, Al Doped ZnS Thin Fils	Erode Arts and Science College, Erode, Bharatiar University	19.12.2019
50.	Dr. G. Anushya	Dr. T. H. Freeda	Effects of Siddha and Allopathic Medicines on the Formation of Urinary Stones Crystals	S.T. Hindu College, Nagercoil, M.S. University, Tirunelveli	13.02.2020

51.	**Dr. R. Arunkumar**	**Dr. D. Benny Anburaj**	**Crystal Growth and Characterization of Technologically Important Crystals (Webinar/virtual/video Viva-voce conducted)**	**D.G.G.A College, Mayiladuturai - 609001**	**10.06.2020**
52.	**Dr. Mrs. S. Arunima**	**Dr. P. J. Jojo**	**Study of Ingestion Dose Due to Primordial Radionuclides Through Food Stuff in the High Background Radiation Areas of Kerala**	**Fatima Mata National College, Kollam, University of Kerela**	**23.09.2020 F.N**
53.	**Dr. Mrs. R. Lekshmi**	**Dr. P. J. Jojo**	**Study of Primeval Radio-Isotopes in Soil and the External Radiation Dose to the Human Beings in the Coastline Villages of Southern Kerala**	**Fatima Mata National College, Kollam, University of Kerela**	**23.09.2020 A.N**
54.	**Dr. D.Selleswari**	**Dr.P.Meena**	**Synthesis and Characterization of CuO and SnO_2 Nanoparticles for diode and CuO/SnO_2 Nanocomposites for Diode and Photocatalytic Applications**	**Department of Physics, PSGR Krishnammal College for Women, Coimbatore – 641004, Bharatiar University**	**03-12-2020 FN**
55.	**Dr.H.Jude Leonard Hilary**	**Dr. P.C.Jobe Prabakar**	**Synthesis, Characterization and Computational Analysis of some Nonlinear Optical Crystals.**	**TBML College, Porayar, Bharathi -dasan University**	**13.02.2021 FN**
56.	**Dr. K. Jayasheela**	**Dr. S. Periandy**	**Molecular Docking Investigation and Spectral Analysis of Certain Pharmaceutically Active Compounds Using DFT Methods**	**KMGIPSR, Puducherry Pondicherry Unive**	**05.03.2021 FN**

57.	Dr. S. Meena	Dr. N. Neelakanda Pillai &	Growth and Characterization of Novel NLO Materials $Zn_xMg_{1-x}TS$	S.T. Hindu College Nagercoil, M.S. Uni.	10.03.2021 AN
58.	Dr. J. William Charles	Dr. K. B. Rajesh	Investigation on Focal Properties of Azimutally Polarized Beam Based on Vector Diffraction Theory	Chikkanna Govt. Arts College, Bharathiar Uni.	28.04.2021
59.	Dr. A. Beta Daniel	Dr. D. Arul Dhas	Theoretical and Experimental Spectroscopic Study on anti-Cancer drugs.	N.M. Christian College, Marthandam M.S.Uni.	17.05.2021
60.	Dr. S. Sebastiammal	Dr. A. Lesly Fathima	Green and Chemical Synthesis of Monovalent and Divalent Metal Ion doped nano HydroxyApatite (nHAP): Remediation Towards Human Pathogens and Cancer Cells.	Holly Cross College, Nagercoil M.S. Uni.	11.06.2021
61.	Dr. A. Ameer Baig	Dr. R. Vadamalar	Growth and Characterization of Nanomaterials	Muthurangam Govt. Arts College Vellore TUV	28.06.2021
62.	Dr. A. Victor Babu	Dr. S. Murugan	A Novel approach to enhance the Quality of Stannic Oxide (SnO_2) Thin Films Towards Assorted Applications	A.V.C College Mannampandal Bharathidasan Uni	23.08.2021 A.N
63.	Dr. J. Prince Richard	Dr. I. Karthar inal Punitha	A Study on the Influence of Transition Metal Dopings in the Photocatalytic Behaviour of ZnO Nanorods	TBML College, Porayar, Bharathidasan University	24.11.2021
64.	Dr. I. Jeya Sheela	Dr. N. Neelakanda Pillai	Growth and Characterization of MTC Single Crystals Doped With Zinc Chloride		02.02.2022

65.	Dr. M. Sankar	Dr. M. Jothibasu	Characteristic study on multi metal doped Cadmium sulfide nanoparticles for Photocatalytic Applications	TBML College, Po Bharathidasan Uni	17.02.2022
66.	Dr. J. Vasudeva n	Dr. S. Johnson Jeyakum ar	A Study on Optical and Magnetic Properties of ZnO Nanoparticles Synthesized through Solid-State Method	TBML College, Po Bharathidasan Uni	24.02.2022
67.	Dr. J. Gobinath	Dr. P. Gowtham an	Preparation, Characterization and Photocatalytic application of Undoped, Üu and Al doped CdS thin films	Erode Arts and Sci College (Autonomo Erode, Bharathiar University, Coimba	04.03.2022
68.	Dr. S. Thambidura i	Dr. P. Gowthaman	Synthesis and characterization of transition metal oxide nanocomposites for Đolar energy conversion and antibacterial applications	Erode Arts and Sci College (Autonomo Erode, Bharathiar University, Coimba	04.03.2022
69.	Dr. J. R. Sheeba	Dr. S. Radhika	A Study on Synthesis, Structure and Properties on SnO_2 Nano Crystals Doped with Some Transition Metals.	Poineer Kumaraswamy College Nagercoil	11.03.2022
70.	Dr. A. Zaheetha Banu	Dr. S. K. Joseph Wilson	A Study on Left-Handed Materials and Their Applicatons	Arul Anandar College (Autonomous) Karumathur -625 514 Madurai	24.03.2022
71.	Dr.M. Kumaresan	Dr. M. Venkatachalam	Design of high-performance resistive type gas sensor based TiO_2 and its various composite films for detection of hydrogen and carbon dioxide gases	Erode Arts and Sci College (Autonomo Erode, Bharathiar University, Coimba	29.03.2022
72.	Dr. K. Subram anian	Dr. M. Venkata chalam	Implementation of Clock Gating Techniques Based Asic Design for Low Power Optimization in VLSI Technology	Erode Arts and Sci College (Autonomo Erode, Bharathiar University, Coimba	09.05.2022

73.	Dr. P. Karthik	Dr. P. Gowthaman	Design and Fabrication of Resistive Gas Sensor Prepared on TiO_2/Carbonaceous Hybrid Composite Thin Films for Detection of Various Toxic Gases	Erode Arts and Sci College (Autonomo Erode, Bharathiar University, Coimba	28.05.2022
74.	Dr. Shyama Muraledharan. K. P	Prof. L. Senthilkumar	Theoretical Studies on Molecular Properties of Amino Acid Based Ionic Liquids	Department of Physics Bharathiar University, Coimbatore	16.06.2022
75.	Dr. S. Aslin	Dr. D. Usha	Application of Spectrosocpic Investigations for Identification and Determination (NLO, NBO, HOMO-LUMO) of Some Organic Compounds	Department of Phy Women's Christian College, Nagercoil M. S. Univesity	20.07.2022
76.	Dr. S. Mahalakshmi	Prof. P.P. Vijaya	Evaluation of *In-vitro* Genotoxicity, Biocompatibility, Anticancer and Wound healing behaviors of Green and Chemically Synthesized Zinc oxide, Iron Oxide (α-Fe_2O_3) and Fe/Zn oxide Nanocomposites – A Comparative study	Department of Nanoscience and Technology Bharathiar University, Coimbatore	11.08.2022
77.	Dr. R. Radhika	D. Dr. Venugopal	Flavonoids and Betalain Mediated TiO_2 Spherical Nanoparticles for Dye Sensitized Solar Cell Applications	Department of Physics Gobi Arts and Science College, Gobichettipalayam – 638 453	15.09.2022
78.	D. Dr. Sivayogam	I. Dr. Kartharinal Punithavathi	A Study on the Properties and Applications of Metal-Oxide Nanoparticles Synthesized Through Soft Chemical Method	TBML College, Porayar, Bharathidasan University	02.11.2022

79.	Dr. D. Abila Darling	Dr. S. E. Joema	Crystallization and Characterization Studies on Chiral Aromatic Amino Acid Family of Single Crystals	N.M. Christian College, Marthandam M. S. Uni.	04.11.2022
80.	Dr. Towseef Ahmad Haiam	Dr. H. Saleem	Spectroscopic Analysis And Molecular Docking Studies Of Some Organic Compounds: A Quantum Chemical Approach	Department of Physics, Annamalai University	19.12.2022
81.	Dr. V. George Fernandez	Dr. B. Rajamannan	Docking, Spectral and Quant um Computational Analysis o n the Biological Impact of Ace tyl, Carboxylic, Furan and A mino Groups on Phenyl Rings	Department of Physics, Annamalai University	07.02.2023
82.	Dr. V. Gayathri	Dr.R. Balan	Synthesis and Characterization of Novel Polymer Blends for Tissue Engineering and Anti-Cancer Applications	Chikkanna Govt. Arts Gollege, Tirupur	15.02.2023
82.	Ms. M. Vinitha	Dr. G. Velraj	Synthesis and Characterisation of Metal Oxides and Mixed Metal Oxides PolyPyrrole Nanocomposites	Department of Physics, Anna University	03.03.2023
84.	Dr. C. U. Bhadra	Dr. D. Henry Raja	Fabrication and Characterisation of TiO_2 Nantube Arrays for Hydrogen Generation	Dept. of Physics, Scott Christian College (A), Nagercoil	28.08.2023
85.	Dr. R. Udayakumar	Dr. K. Gurusamy	Biosynthesis of Cadmium Oxide (CdO) and Calcium Oxide (CaO) Nanoparticles via Sesbania grandiflora L. leaf extract: Characterization and Potential Application as Antimicrobial and Anticancer Agents	Department of Physics, Annamalai University	04.09.2023

86.	Dr. J. manonmani	Dr. S. Bakkialakshmi	Study of Molecular Interaction and Biomedical Applications of Berry Phenolic Acids with Globular Proteins	Department of Physics, Annamalai University	26.09.2023
87.	Dr. M. Jini Pramila	Dr. D. Arul Dhas	Crystal Growth, Structural, Spectroscopic and Computational Investigations of NLO Compounds	Nesamony Memorial Christian College, Marthandam.	20.10.2023
88.	Dr. S. Virgin Jeba	Dr. A. Lesly Fathima	Development of Novel Morphologies on Nickel Oxide Nanostrucutres Electrochemical Applications	Holy Cross College (A), Nagercoil	08.12.2023
89.	Dr. S. Thangabalu	Dr. N. Senthil Kumar	Systematic Investigation of Rare Earth (RE: Sm^{3+}, Eu^{3+} AND Gd^{3+}) Metals Doped WO_3 Nanoparticles for Dual Applications in Photocatalytic and Antibacterial Activities	Kongunadu Arts and Science College, Coimbatore	21.12.2023
90.	Dr. S. S. Monisha	Dr. S. Jeslin Sunitha Bai	Investigation on Certain Creatinine Based Bioactive Single Crystals using Computational and Spectroscopic Techniques	Nesamony Memorial Christian College, Marthandam.	05.01.2024
91.	Dr. M. Joseph Salethraj	Dr. D. Govindaraja n	Electrochemical Performance of Pure and RGO Decorated CoS, CoP and Co_3O_4 Nanoparticles for Supercapacitor Applications	Detatment of Physics Annamalai University Chidambaram	09.01.2024
92.	Dr. A. Sindhya	Dr. S. Johnson Jeyakumar	Preparation and Characterization of Nanohydroxypatite and its Polymeric Composites using Natural Precursors and their In-Vitro Studies	TBML College, Porayar, Bharathidasan Universit	10.01.2024

93.	Dr. Aanie P .S	Dr P .H Sudharlin Paul &	Thermal Analysis and Characterization of Solar Heating Systems with Nano based Integral components	Nesamony Memorial Christian College, Marthandam	19.01.2024
94.	Dr. H. Lincy	Dr. M. Jothibasu	Enhanced Gas Sensing Properties of Some Metal Doped Tungsten Trioxide Nanoparticles	TBML College, Porayar, Bharathidasan University	13.06.2024
95.	Dr. R. Prasanna Devi	Dr. N. Krishnakumar	Flavonoid-mediated Synthesis of Graphene-Based Noble Metal Nanocomposites with Enhanced Photocatalytic, Electrochemical and Anticancer Performance	Physics, Annamalai University	18.06.2024
96.	Dr. S. Arul Vathana	Dr. Amudhavalli	Opto-Structural Morphological Analysis of Green Synthesized Transition Metal Nanoparticles and their Photocatalytic Acitivity	V.O.C College Thoothugudi	18.07.2024
97.	Dr. T. L. Annusha	Dr. A. S. Jebamalar	Investigation on the Growth and Characterization of Certain Amino Acid Related Single Crystals	Nesamony Memorial Christian College, Marthandam	19.07.2024
98.	Dr. Soumya Menon P	Dr. D. Sajan	Synthesis and Characterization of Transition Metal Oxide Nano Structures and Application in Nonlinear Optical Studies	Department of Physics Bharathiar University, Coimbatore & Department of Physics Bishop Moore College, Mavelikkara, Kerala	14.08.2024
99.	Dr. Bindiya Dey	Prof. C. Manoharan	Enhancing the Efficacy of Magnetic, Electrochemical and Gas Sensing Properties of Nickel Ferrite Nanoparticles Through Transition Metal Dopants and Annealing	Deprtment of Physics, Annamalai University	30.08.2024

100.	Dr. A. Suba	Dr. P. Selvarajan & Dr. J. Jebaraj Devadasan	Physical, Chemical and Biological Characterization of Undoped and Doped Magnesium Oxide Nanomaterials Manufactured by Green Method	Aditanar College of Arts and Science, Tiruchendur, Tamil nadu, & Pope's College, Sawyerpuram, Tuticorin District	10.12.2024
101.	Dr. E.S. Ashlin	Dr. G. Edwin Sheela	An Experimental and Theoretical Study of Fungicidal Compounds with Structural Analysis	Muslim Arts Coll ege, Thiruvithancode.	09.01.2025
102.	Dr. Gabriya L R	Dr. Darlin Mary	A Study on the Influence of Different Organic Dyes on Amino Acids Doped Potassium Di-Hydrogen Orthophosphate Single Crystals	Annai Velankanni College, Tholayavattam - 629157, Kanyakumari District.	07.04.2025
103.		Dr. N. Senthil Kumar		Kongunadu Arts and Science College, Coimbatore	24.04.2025
104.	Dr. P. Ponnarasi	Dr. G. Mahalakshmi	Green Synthesis of Metal Oxide Nanoparticles, Characterizations and their Environmental Applications	Department of Physics, Government Arts College (Autonomous), Karur-05	28.04.2024

105.	Dr. G. Manikandan	Dr. D. Dhanalakshmi	"Investigation of Spin-Dependent Transport in Organic Semiconductors	Spintronics and Functional Materials Laboratory, Department of Applied Sciences, PSG College of Technology, Coimbatore, 641004, India	30.04.2025
106.	Dr. Prabula S S	Dr. C. Hentry	Biosynthesis of Metal and Metal Oxide Nanoparticles and Their Potential Applications to Dye Degradation	Department of Physics, St. Jude's college, Thoothoor, K.K. Dist.	22.05.2025

(c) Other University Ph.D. Thesis Evaluated by Invitation:

Sl. No.	Name of Candidate	Name of Supervisor	Title of Thesis	Name of University
1.	Dr. Nirdesh Kumar Singh	Dr. S. K. Sharma	Optical Structural and Thermal Properties of Indium Chalcogenide $In_2Se_{3x}Te_{(1-x)}$	Ch. Charan Singh University, Meerut (11.05.2010)
2.	Dr. Lalmuanpuia	Prof. R. K. Thapa	Study of the Optical Properties of Solids by using Full Potential Linear Augmented Plain Waves (LAPW) Methods	Mizoram University (Central University) (08.05.2011)
3.	Dr. Rosangliana	Prof. R. K. Thapa	Theoretical Study of Surface Effect in Photoassisted Field Emission	Mizoram University (Central University) (08.05.2011)
4.	Dr. Sandeep	Prof. R. K. Thapa	Study of Rare Earth Elements with Emphasis on Magnetism and Electronic Band Strucutres	Mizoram University (Central University) (11.05.2011)
5.	Dr. S. Balakrishnan	Dr. G. Meenakshi	Ultrasonic Studies on Molecular Interactions of Three Component Systems of Electrolytes and Non-	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya,

			electrolytes	Kanchipuram, TN (31.08.2011)
6.	Dr. Jitendra Kumar Pathak	Prof. Onkar Prasad	Study of Phase Transition in Polymers and Structural Analysis of Indium and its Derivative	University of Lucknow (22.11.2011)
7.	Dr. Vijay Narayan	Prof. Dr. Leena Sinha	DFT Studies of Small Molecules/Cluster	University of Lucknow (13.03.2013)
8.	Dr. Naveen Kumar	Prof. Onkar Prasad	Study of Electronic Structure of Small molecules using First Principles	University of Lucknow (13.03.2013)
9.	Dr. Amit Bhagubhai Patel	Dr. N.K Bhat	Comprehensive Study of Liquid Polyvalent Metals Using Pseudopotential Theory	Sardar Patel University, Gujarat (02.07.2014)
10.	Dr. Alok Kumar Sachan	Prof. Dr. Leena Sinha	Applications of *ab* Initio Quantum Chemistry to Small Organic Molecules	University of Lucknow (20.06.2015)
11.	Dr. Mrs. Y. Sheena Mary	Dr. K. Raju	Vibrational Spectra and DFT Computational Study of Certain Bioactive Molecules	University of Kerela (28.01.2016)
12.	Dr. Vikas Kumar Shukala	Prof. Dr. Leena Sinha	Vibrational Analysis and Electronic Structure Calculations of Small Organic Molecule using First Principles	University of Lucknow (01.02.2016)
13.	Dr. J. Thennarasu	Dr. G. Meenakshi	Molecular Interaction Studies in Certain Binary and Ternary Liquid Systems exposed to Ultrasonic Frequency	Dravidian University, Kuppam, Andra Pradesh (10.03.2016)
~~14.~~	~~Dr. Vikas Kumar Shukala~~	~~Prof. Dr. Leena Sinha~~	~~Vibrational analysis and electronic structure calculations of small organic molecule using first principles~~	~~University of Lucknow (23.03.2016)~~ **Sl. No. (12) Second Time Evaluated the Thesis**
15.	Dr. Shilendra Kumar Pathak	Prof. Leena Sinha	Vibrational Analysis and Non-linear Optical Properties of Organic Molecules using Quantum Chemistry	Lucknow University (19.05.2017)
16.	Dr. Benzon	Dr. Hema	Vibrational Spectroscopic	University of Kerela

	K.B	Tresa Varghese	Investigations of Certain Azatricyclo and Imidazole Derivatives	(02.06.2017)
17.	Dr. Patel Hiral Timin	Dr, P. R. Vyas	A Comparative Study of Physical Properties Some Simple and Non-simple Metals by using an Effective and Local Pseudo Potential	Gujarat University Navrangpura, Ahmedabad -380009 (31.01.2020)

(d). The following M. Phil Scholars under my guidance:

S.No	Name	Title	University
1	Mr. L. Leo Sebasty (2001)	Spectroscopic studies on high temperature superconductor mixtures $Bi_2Sr_2CaCu_2O_8$	Manonmaniam Sundaranar University
2	Mr. D. Prakash Babu (2002)	Structural Elucidation of Calcium oxalate monohydrate and calcium phosphate present in urinary calculi by spectroscopic methods	Directorate of Distance education, Annamalai Uni.
3.	Mr. V. Harikrishnan (2003)	Thermal aspect of laser- Based measurement and ultra fast Laser processing of Dielectric materials	Center for Distance Edn. Bharathidasan Uni.
4.	Mr. V. Arun (2004)	A comparative study on Focal performance of fiber ended microlens and Axicon for optical recording application	Center for Distance Edn. Bharathidasan Uni.
5.	Mr. B. Shanmugavelu (2005)	Theoretical study on coupling between laser diode and microlens ended single mode fiber using ABCD matrix method.	Periyar University
6.	Mr. Raja Ratnam (2006)	Generalized beam propagation factor of hard-edged circular apertured diffracted Bessel-Gaussian beams	PRIDE Periyar University
7	Mr. K. Velmurugan (2006)	Direct electron beam writing of kinoform micro-axicon for generation of propagation-invariant beams with long non-diffracting distance	PRIDE Periyar University
8	Mrs. B. Annapoorni (2006)	Desinging uniform intensity Axicons for micro drilling applications	PRIDE Periyar University

9	**Mr. A. Prakasam (2006)**	**Axicon Microlens for high resolution optical coherence tomography**	**PRIDE Periyar University**
10	**Mrs. S. Amaravathi (2006)**	**Focal shift and focal switch of Bessel-Gaussian beams passing through a lens system with or without aperture**	**PRIDE Periyar University**
11	**Mr. P. Jagadesan (2006)**	**A theoretical study on axial intensity distribution of axicons**	**PRIDE Periyar University**
12	**Mr. L. Arivuselvam (2006)**	**DOE generating Bessel Beam for Optical Recording**	**PRIDE Periyar University**
13	**Mr. K. Harisankar (2006)**	**Designing Axicons for Microdrilling**	**PRIDE Periyar University**
14	**Mr. K. M. Prabhu (2005)**	**Desiring uniform intensity Axicons for micro drilling applications**	**PRIDE Periyar University**
15	**Mr. M. Dharma Poopathy (2006)**	**Axilenses for optical recording applications**	**PRIDE Periyar University**
16	**Mrs. A. Karpagam (2006)**	**Analysis of free space optical interconnects based on non-diffracting beams**	**PRIDE Periyar University**
17	**Mrs. G. Poornima (2006)**	**Focal shift and focal switch of Bessel-Gaussian beams passing through a lens system with or without aperture**	**Center for Distance Edn. Bharathidasan Uni.**
18	**Mrs. S. Meenakshi (2006)**	**Dynamically reconfigurable optical trap created with a combination of Axicons**	**Center for D. Edn. Bharathidasan Uni.**
19	**Mr. K. Uma Maheswaran (2006)**	**Narrow polymer fibers obtained as a combination of photopolymerization and non-diffracting beams**	**Directorate of Distance Edn. Annamalai Uni.**
20	**Mr. C. Mohanasundaram (2006), Gold Medalist**	**Non-diffracting beam for optical recording applications**	**Periyar University**
21	**Mr. P. Senthilkumar (2006)**	**Light trapping scheme of high throughput and low aberration Microlens for Silicon Solar cell**	**Periyar University**
22	**Mr. N. Thangaraja (2006)**	**Scanning microscopy with extended depth of focus**	**PRIDE Periyar University**

23	**Mr. Mrityunjai Kumar Singh (2007)**	**Habit Modification Study on Non-linear Single Crystal KDP Doped Dyes for Laser Applications**	**PRIDE Periyar University**
24	**Mr. S. V. Satyanarayana (2007)**	**Molecular Structure, Vibrational Spectroscopic Studies and NBO Analysis of 7-Amino-4-Trifluoromethylcoumarin**	**PRIDE Periyar University**
24	**Miss. M. Geetha (2007)**	**Design, Optical Study and Light Trapping Scheme of Low Order Aberration Microlens for Micromachined Silicon Solar Cells**	**Periyar University**
26	**Mr. J. Chandrasekaran (2007)**	**A Study on Adjustable Generation of High Resolution Near Field Optical Virtual probe Using Diffractive Axicon.**	**Periyar University**
27.	**Ms. M. Jothimani (2008)**	**A study on field distribution behind an Axicon illuminated by an Azimuthally polarized beam.**	**Periyar University**
28.	**Ms. K. Lalithambigai (2008)**	**A Theoretical study on Vectorial field distribution by linearly polarized Gaussian beam passing through an Axicon**	**Periyar University**
29.	**Ms. K. Leelavathi (2008)**	**A study on Vectorial analysis of radially polarized Gaussian beams using an Axicon.**	**Periyar University**
30.	**Ms. M. Vasanthi (2008)**	**A Novel study on Near-field optical recording by Solid Immersion Axicon**	**Periyar University**
31.	**Mr. K. Vasudevan (2009)**	**Charge Transfer Interaction Study on Linear Organic Single Crystal Imidazole-Iodine Interface for Dye Solar Cells using DFT.**	**Madurai Kamaraj University**
32.	**Mr. Debkumar Bhadra Shore Point, Bamboo flat South Andaman – 744107 (2009)**	**DFT Study on Modified Phthalocyanine Derivatives for Efficient Near-IR Sensitization of Nanostructured TiO_2 Electrode in Dye Sensitized Solar Cells**	**Madurai Kamaraj University**
33.	**Mr. R. Govindan (2010) - Gold Medalist**	**Theoretical Study of 4-(Phenylthio)-1,2-benzenedicarbonitrile Dye for Dye-Sensitized Solar Cells**	**Periyar University**
34.	**Mr. G. Karthik (2010)**	**Theoretical study of Dye Sensitized Solar Cell**	**Periyar University**
35.	**Mr. V. Arun (2011)**	**Preparation and characterization of Co-doped ZnO thin film by Sol-Gel process**	**Periyar University**

36.	**Mr. S. Varathan (2011)**	**Metal doped TiO_2 thin film: Preparation and characterization**	**Periyar University**
37.	**Ms. C.Indira Priyadharsini (2012)**	**Enhanced Photoelectrical Performance of DSSC by Co-doped SnO_2 Nanoparticles**	**Periyar University**
38.	**Ms. S. Shanmugapriya (2012)**	**A comparative Study of Synthetic and Natural Dyes for the Application of DSSC using Co-doped TiO_2 as Photo Anode**	**Periyar University**
39.	**Mrs. G. Suguna (2012)**	**Quantum Chemical Calculations of 4-Amino-3-Nitrobenzonitrile for Solar Cell Applicatons**	**Periyar University**
40.	**Mr. M. Kumaresan (2013)**	**The Role of Solvent Effects in Natural Sensitizer for DSSC Applications**	**Periyar University**
41.	**Mr. C. Rajesh (2013)**	**Synthesis and Characterization of ZrO_2 Nanoparticles for Solar Cell Applications**	**Periyar University**
42.	**Mr. R. Surendiran (2013)**	**Structural, Optical and Morphological Study on Titanium Dioxide (TiO_2) Nanoparticles for Enhancing Light Absorption**	**Periyar University**
43.	**Ms. S. Keerthanadevi (2014)**	**Investigation of Azimuthally Polarized Beam for Multiple Optical Trapping Applications**	**Periyar University**
44.	**Ms. K. S. Kokila (2014)**	**An Analysis in Structural and Optical Properties of ZnO Nanoparticles by Microwave Method**	**Periyar University**
45.	**Mr. M. Prakasam (2014)**	**DFT and TD-DFT Calculations of Stilbene Substituted Methanofullerene for Dye Sensitized Solar Cell Applications**	**Periyar University**
46.	**Mr. A. Arunkumar (2015)**	**DFT and TD-DFT study of (E)-3- (5-(anthracen-3-yl) hexahydrothieno [3,4-b][1,4]dioxin-7-yl) - 2-cyanoacrylic acid dye for Dye Sensitized Solar Cell Application**	**Periyar University**
47.	**Mrs. R. Divya Bharathi (2015)**	**Methyl – Modified TPA dyes for Dye Sensitized Solar Cell: Theoretical Study**	**Periyar University**
48.	**Mr. D. Nickson Sebastin (2015)**	**Theoretical Investigations of Different Donor Groups in Organic Dyes for Dye Sensitized Solar Cell Applications**	**Periyar University**

49.	**Mrs. V. Sangeetha (2015)**	**DFT and TD-DFT Investigations of Organic Dye Sensitizers for DSSC: Effects of Different Accepter**	**Periyar University**
50.	**T. Akash Narayana (2016) M15PHY101**	**Microwave Assisted Rapid Synthesis and Characterization of Tetragonal Structured Lanthanum doped Zirconium Oxide (ZrO_2) Nanoparticles**	**Periyar University**
51.	**Ms. M. Arthi (2016) M15PHY104**	**A Computational Investigation of Triphenylamine Based Organic Dye for Highly Efficient Dye-Sensitized Solar Cells**	**Periyar University**
52.	**Mr. S. Prabhu (2016) M15PHY119**	**Optical and Structural Characterizations of Cu and Fe doped SnO_2 Nanoparticles via Co-precipitation Method**	**Periyar University**
53.	**Mr. D. Santhoshmani (2016) M15PHY121**	**Synthesis of Hexagonal Shaped Ag-SnO_2-ZnO Nano Composite via Hydrothermal Method and their Characterization**	**Periyar University**
54.	**Ms. G. Usha (2016) M15PHY124**	**Creation of Super long Transversely Polarized Optical Needle and Multiple Focal Spots Using Phase Modulated Polarized Doughnut Gaussian Beam**	**Periyar University**
55.	**Mr. M. Kaliyappan (2017) M16PHY107**	**A Perovskite $SrTiO_3$ Nanoparticles Synthesis by Hydrothermal methods For Solar Cell Applications**	**Periyar University**
56.	**Ms. V. Karthika (2017) M16PHY109**	**Synthesis ofrGO supported with WO_3/Fe_2O_3 Nanoparticles for Visible-light Photocatalytic Application**	**Periyar University**
57.	**Ms. A. Pavithra (2017) M16PHY115**	**Quantum Chemistry Calculations of Coumarin Dye Sensitizer For Solar Colls**	**Periyar University**
58.	**Mrs. S. Vennila (2017) M16PHY127**	**A Spacer For Enhance Light Absorption Of Organic Dye-Sensitized Solar Cells And Influences On Charge Transfer Dynamics: A Computational Study**	**Periyar University**
59.	**Mr. M. Alagesan (2018)**	**Synthesis and Characterization of Piperidinium-4-Nitrophenolate Organic crystal with Hygroscopic nature for Nonlinear Optical**	**Periyar University**

		Application	
60.	**Ms. M. Vinitha (2018)**	**Theoretical Studies on Organic D-π-A Sensitizer with Carbazole Donor and Different π-Linkers for Dye Sensitized Solar Cells**	**Periyar University**
61.	**Ms. M. Deepana (2018)**	**First Principle Study of Highly Efficient Organic Dye Sensitized Solar Cell Based on D-Π-A Architecture With Different Spacer Units**	**Periyar University**
62.	**Mrs. Sinthuja (2022)**	**Construction of 3D-$MnCo_2O_4$||3D-Bi_2WO_6 as an Electrode Materials for Efficient Energy Storage Device**	**Periyar University**

(e). M.Sc. Project:

1. **Mr. N. Thangaraja**, "**An Investigation of Effective Coupling of Tapered Lens Single Mode Fibres with Diode Lasers using ABCD Matrix**" (2005)
2. **Mr. S. Vijayanath**, "**Theoretical Study on Non Diffractive Laser Beam Produced using Annular Rings**" (2005)
3. **Miss. B. Manitha**, "**A Study on Non Diffractive Beam for Optical Microlithography**" (2005)
4. **Miss. S. Revathi**, "**Theoretical Study on AC Parameter of Gaas/Ge Solar Cells for Space Applications using Impedance Spectroscopy**" (2005)
5. **Miss. R. Radha** "**A Comparative Study on Optical Feedback and Reflectivity in Laser – to – Fiber Coupling Techniques** (2006)
6. **Mr. P. Velayutham** "**A Theoretical Investigation on the Coupling Performance of the Hot Embossed Microlens under Various Embossing Parameters**" (2006)
7. **Mr. K. M. Prabhu** "**Theoretical Study on Coupling between Laser Diode and Single Mode Fiber via Hemispherically Ended Graded Index Fiber**" (2006)
8. **Mr. R. Ramesh** "**A Theoretical Study on Unstable Bessel Beam Resonator**" (2006)
9. **Miss. M. Geetha** "**Light Trapping Scheme of Silicon Solar Cell using High Throughput Microlens**" (2007)

10. **Miss. M. Jothimani**, "**Optical Feedback and Reflectivity Study of Laser to Fibre Coupling with Different Techniques**" (2007)

11. **Miss. K. Lalithambigai**, "**Microfabrication and Drilling using Diffraction-Free Pulsed Laser Beam Generated with Axicon Lens**" (2007)

12. **Miss. K. Leelavathi**, "**Characteristics of Beam Profile of Gaussian Beam Passing Through an Axicon**" (2007)

13. **Mr. S. Suresh**, "**Intensity Distribution in Non-Diffracting Beams Propagating in a Nonlinear Medium**" (2008)

14. **Miss. M. Vasanthi**, "**Generation of Partially Coherent Diffraction-Free Fields with Tunable Geometry**" (2008)

15. **Miss. C. Hemambigai**, "**A Numerical Study on Sub-Wavelength Super Resolution Non-Diffractive Beam Generated by Lens Axicon**" (2009)

16. **Miss. K. Premalatha**, "**Numerical Analysis on Diffraction Field Behind an Axicon Using Vector Interference Theory**" (2009)

17. **Miss. R. Premalatha**, "**An Analysis on Near Field Optical Virtual Probe Generated by Solid Immersion Axicon (SIAX)**" (2009)

18. **Miss. U. Banunandhini**, "**A Study on the Role of Polarization and Phase in Solid Immersion Lens (SIL) System**" (2009)

19. **Ms. M. Nira**, "**DFT And TD-DFT Study on Silicon Dioxide Substituted Phthalocyanine for Dye Sensitized Solar Cells**" (2010)

20. **Ms. A. Vetriselvi**, "**Comparative Analysis of Crystalline Silicon and Amorphous Silicon Solar Cell Models using Spectral Converter Methods**" (2010)

21. **Mr. E. Asmath Ragamath**, "**Progressive Addition Lens Design, Optimization and Performance Analysis Using ZEMAX**" (2010)

22. **Ms. G. Amutha**, "**Preparation and characterization of Calcium doped TiO_2 thin films**" (2011)

23. **Ms. S. Keerthanadevi**, "**Preparation and Structural Characterization of Non-Metal Doped ZnO Thin Films**" (2011)

24. **Mr. M. Vasanth**, "**Synthesis and Optical Properties of Calcium Doped ZnO Thin Films**" (2011)

25. **Mr. M. Karuppaiya**, "**Preparation and characterization of Metal Incorporated TiO_2 thin films"** (2011).

26. **Ms. K. Devi**, "**Study of Magnetic Properties of Transition Metal Doped Zine Oxide Nanopowder by Mechanical Mixing Method**" (2012)

27. **Mr. R. Govindaraj**, "**Synthesis, Structural, Optical and Thermal Analysis of RE Metal Doped TiO_2 Nanoparticles**" (2012)

28. **Mr. M. Ayyanar**, "**Preparation and Photoelectrical Studies on S-Doped TiO_2 Nanoparticles for DSSC Application**" (2012)

29. **Mr. R. Surendiran**, "**Morphological Study of ZnS Nanocrystals with Influence of Capping Agents**" (2012)

30. **Ms. S. Poorani, "Analysis of Structural and Morphological Study of Pure Zirconium using Microwave Method" (**2013)

31. **Mr. M. Prakasam**, **"Theoretical Study of 2-Ethylbenzonitrile Dye Sensitizer for Solar Cells Using Quantum Chemical Calculations"** (2013)

32. **Ms. S. Sathya**, **"Influence of Solvent Effects using Natural Sensitizer for Dye Solar Cells"** (2013)

33. **Mrs. G. Divya, "Analysis of Structural and Optical Properties of Natural Sensitizer (Spinacia Oleracea) for High Performance DSSC" (**2014)

34. **Mr. M. Gobikrishnan, "Molecular Modelling of 1,4 Phenylendiacetonitrile (1,4 PAN) Dye Sensitizer for Solar Cells using Quantum Chemical Calculations"** (2014)

35. **Ms. R. Karthika, "Performance Study of Photoanode in DSSC with Cr Doped ZnO Nanoparticles by Precipitation Method"** (2014)

36. **Ms. Sathiyavani, "Structural and Optical Analyses of Natural Sensitizers with Various Solvent Medium" (**2014)

37. **Ms. E. Savitha, "Photocatalytic Activity Study of Yttrium Doped Titanium Dioxide Nanoparticles By Sol-Gel Method"** (2014)

38. **Mr. G. K. Deepakraj, "Theoretical Investigation of Coumarin-102 for Dye Sensitized Solar Cell Application Based on DFT Calculations"** (2015)

39. **Ms. R. Kalaiselvi, "Tight Focusing Properties of Cylindrically Polarised Annular Multi-Gaussian Beam"** (2015)

40. **Ms. G. Usha, "Generation of Multiple Focal Spot and Hole Segment using Phase Modulated Cylindrically Polarised Annular Multi-Gaussian Beam"** (2015)

41. **Mrs. S. Vennila, "Preparation and Characterisation of Natural Sensitizer (Solanum Torvum) for High Performance DSSC** (2015)

42. **Mr. M. Alagesan**, P14PHY1001**, Synthesis and Characterization of Perovskite Type $BaSnO_3$ Nanopowder through Co-Precipitation Method** (2016)

43. **Mr. M. Kaliyappan**, P14PHY1005**, Natural Dye Extract from Calotropis Cigantea Leaves by Solvent Effect for Dye Sensitized Solar Cell** (2016)

44. **Ms. V. Karthika**, P14PHY1008, **Stilbene Modified Dye as a Sensitizer for DSSC: A Theoretical Study** (2016)

45. **Ms. A. Pavithra**, P14PHY1012, **Effect of Ce Doping on Microstructural and Optical Properties of ZrO_2 Nanoparticles** (2016)

46. **Ms. A. Pavithra**, P14PHY1013, **Quantum Chemical Investigation of an Azulene Dye as Sensitizer for DSSC Application** (2016)

47. **Ms. M. Priyadharshini**, P14PHY1015, **Studies on Halo Coronal Mass Ejections (CMEs) during 24^{th} Solar Cycle** (2016)

48. **Mr. A. Arulvel,** P15PHY1003, **Synthesis and Characterization of Cu_2O/ZnO/rGO Nanocomposite using Hydrothermal Technique** (2017)

49. **Ms. M. Deepana,** P15PHY1007**, Methyl Group Modified in TPA Dyes for Dye Sensitized Solar Cells: Quantum Chemical Assessments** (2017)

50. **Ms. R. Gnanadeepam,** P15PHY1009**, Influence Donor at D-π-A Based Dyes toward More Efficient Sensitizers for Dye-Sensitized Solar Cells: A First Principle Study** (2017)

51. **Mr. M. Rajalingam,** P15PHY1020**, Effects of the Bridge Unit in D-π-A Architecture to Improve Electron Injection Rate and Regeneration Energy in DSSCs: A Quantum Chemical Study** (2017)

52. **Mr. S. Shanavas,** P15PHY1025, **An Investigation on Photocatalytic Activity of Metal Oxides Coupled Graphene Nanocomposite for Enhanced Degradation of Organic Dyes** (2017)

53. **Ms. S. Brindha** – P16PHY1005 – **Green Treated Hydrothermal Systhesis of Cu2O-Cds-rGO Ternary Nanocomposites using Azadirachta Indica Leaf Extract** - (2018)

54. **Ms. G. M. Dhiviyaa** - P16PHY1007 – **Sensitivity Enhancement of Copper with the use of Transition Metal Dichalcogenides (TMDCs) in Surface Plasmon Resonance Biosensor** - (2018)

55. **Ms. R. Karthika –** P16PHY1015 **– Synthesis of Tungsten Trioxide (WO_3) Nanoparticles and its Optical Property -** (2018)

56. **Ms. P. Ponezhil** - P16PHY1025 – **Structural, Optical and Electrical Properties of Sn Doped ZnO-rGO Nanoparticles using Hydrothermal Technique** - (2018)

57. **Ms. M. Hazeena** - P16PHY1011 – **Synthesis, Growth and Characterization of Non-Linear Optical Organic Piperidinium-4-Nitrophenolate Crystal by Slow Evaporation Solution Growth Technique** - (2018)

58. **Ms. P. Ezhilarasi**, P17PHY1005 – **Investigation of Photophysical Properties of Quantum Dots Rare-earth Tungstate Nanohybrids** – Co-Supervisor - Dr. T. Palanivel - (2019)

59. **Ms. P. Kowsalya**, P17PHY2012 – **Investigation on the Removal of Reactive Blue Dye from Aqueous Solution by Adsoption using Iron Oxide-hydroxyapatite Nanocomposite** – Co-Supervisor - Dr. E. K. Girija (2019)

60. **Ms. S. Ranchini**, P17PHY1026 – **Glutamic based Urchin Microspere Structure Metal Orgnaic Framework for Sorption and Al^{3+} Ion Sensing Applications** - Co-Supervisor – Dr. J. Kalyan Sundar - (2019)

61. **Ms. S. Valarmathi**, P17PHY2036 – **Hierarchical Nickel Zinc Selenide Complex Spheres for Hybrid Supercaps** – Co-Supervisor - Dr. T. Palanivel - (2019)

62. **Ms. R. Bhuvaneswari** - P20PHY1003 - **Investigation on Structural, Morphological and Electrochemical Properties of ZnS Nanoparticles and Ni doped ZnS Nanoparticles for Supercapacitor Applications** - (2022)

63. **Ms. R. Rajalakshmi** - P20PHY1017 - **Design of $CoFe_2O_4$ Thin Film as an Efficient Electrode Material for Supercapacitor Application** - (2022)

64. **Mrs. M. Thooba Anjum** – P20PHY1017 - **Fabrication of TiO_2 Based Dye Sensitized Solar Cells using Chicken Bolld as a Natural Sensitizer for Photovoltaic Applications** - (2022)

65. **Mrs. A. Vinnarasi -** P20PHY1024 - **One-Step Hydrothermal Synthesis of SnS_2 Nanoparticles and Cu doped SnS_2 Nanoparticles for Supercapacitor Applications -** (2022)

66. **Ms. S. Archana** – U21PG521PHY006 - **Electrochemical Properties of CuV_2O_5 Microspheres as an Anode Material for Secondary Batteries** - (2023)

67. **Ms. M. M. Arthisri** – U21PG521PHY007 - **Synthesis of $NiMn_2O_4$ Micospheres as an Anode Material for Rechargeable Batteries** - (2023) - **Gold Medalist**

68. **Ms. R. Kavipriya** – U21PG521PHY012 - **Zinc Vanadate (ZnV_2O_4) Micro-flowers as an Potential Anode Material for Rechargeable Batteries** - (2023)

69. **Mr. R. Stalin** - U21PG521PHY024 - **Structural and Electrochemical Performance of $CoAl_2O_4$ Micro-flowers as an Anode Material for Secondary Batteries** - (2023)

70. **Ms. B. Divya** - U22PG521PHY007 - **Investigation on Photocatalytic Dye Degradation Performance of Hydrothermally Synthesized Manganese Tungstate Nanorods** - (2024)

71. **Mr. M. Gokul** - U22PG521PHY024 - **Facile Synthesis of Sheet-Like Bismuth Molybdate Nanoparticles for Visbile Light-Driven Photocatalytic Application** - (2024)

72. **Ms. R. Rajakavimani** - U22PG521PHY022 - **Visible-Light-Triggered $CuMoO_4$ Spheres as an Efficient Catalyst of Methylene Orange Dye Degradation for Photocatalytic Application** - (2024)

73. **Ms. P. Sneka** - U22PG521PHY026 - **Green Synthesis of Copper Oxide (CuO) Nanoparticles using Peregrina Leaf Extract for Antibacterial Applications** - (2024)

M.Sc – Internship Programme:

1. **Mrs. K. S. Dhivyaa - (Reg. No. 20PPHY017) – PG & Research Department of Physics, Sri Vidya Mandir Arts & Science College (Autonomous), Uthangarai, Krishnagiri – 636 902 – Structural Characterization of Green Synthesis Assisted Nickel Oxide Nanoparticles – (21.03.2022 – 08.04.2022)**

2. **Ms. M. Shobika - (Reg. No. 21MP0628) – Department of Physics, Sri GVG Vishalakshi College for Women (Autonomous), Udumalpet, Tiruppur – 642 128 - Cobalt Phosphide as an Efficient Electrode Material for Energy Storage Application – (04.07.2022 - 27.07.2022)**

3. **Ms. R. Malinidevi - (Reg. No. 22MP1188) - Department of Physics, Sri GVG Vishalakshi College for Women (Autonomous), Udumalpet, Tiruppur – 642 128 - Synthesis and Performances Study of Cobalt Sulphide Electrode Material for Supercapacitor Application - (29.05.2023 - 14.06.2023)**

4. **Mrs. S. Anithamani, Ph.D Scholar, PG and Research Department of Phsics, Thiruvalluvar Govt. Arts College, Rasipuram, admitted with the permission of the Registrar, Periyar University to learn software in our laboratory (02.01.2024 - 30.03.2024)**

Placement of My Scholars/Students at Various Institutions/Organizations:

1. Dr. R. Rengaiyan:

Major Dr. R. RENGAIYAN, M.Sc., M.Phil., B.Ed., Ph.D.,
Head & Associate Professor in Physics & Associate NCC Officer
Arignar Anna Govt. Arts and Science College
Karaikal – 609 605
Govt. of Puducherry
Mobile: 9442506350, e-mail: rengbhu@yahoo.co.in

2. Dr. S. Selvanandan:

Dr. S.SELVANANDAN, M.Sc, M.Phil., B.Ed., Ph.D.,
Professor & HOD
Department of Physics,
ACS College of Engineering
Kambipura, Mysore Road
Bangalore
MOBILE:+91-0-8884451258, e-mail: selvanandan@gmail.com

3. Dr. M. K. Subramanian:

Dr. M. K. Subramanian., M.Sc, M.Phil., M.Ed., Ph.D.,
Head & Associate Professor of Physics & Placement Officer
Thiruvalluvar Govt. Arts College
Rasipuram - 637401
Namakkal Dist. Tamilnadu State.
Mobile : 98427-31367, e-mail: professormksubramanian@gmail.com

4. Dr. K. B. Rajesh:

Dr. RAJESH K.B., M.Sc, B.Ed., Ph.D.,
Assistant Professor in Physics
Chikkanna Goverment Arts College
Tirupur – 641602, Tamil Nadu
Mobile : 9942460031, e-mail: rajeskb@gmail.com

5. Dr. A. Kalyanasundaram:

Dr. A. KALYANASUNDARAM, M.Sc, M.Phil., B.Ed., Ph.D.,
Associate Professor & HOD of Physics, Principal In-charge
Avvaiyar Govt College for Women
Dr. Ambedkar Street
Karaikal - 609602
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Mobile : 9442514170, e-mail: ayyarukalyanasundaram@gmail.com

6. Dr. K. Vasudevan:

Dr. K. VASUDEVAN, M.Sc, M.Ed., Ph.D.,
Head Master & Post Graduate Teacher
ADW HSSchool
Kalangani, Minnampalli Anna Nagar-pu, Puduchadram
Namakkal, Tamil Nadu (IN) - 637014
Mobile: 9443275567, e-mail: vasu_pgt@yahoo.co.in

7. Dr. S. Manimegalai:

Dr. S. MANIMEGALAI, M.Sc., M.Phil., Ph.D.,
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Thiruvalluvar Govt. Arts College
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10. Dr. N. Sakthivel:

Dr. N. SAKTHIVEL, M.Sc, B.Ed., Ph.D.,
Principal
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Periyakalam, Neikkarapatti P.O.
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Mobile: 7502340777, e-mail: an.sakthivel@yahoo.co.in

11. Dr. V. Ravi:

Dr. V. RAVI, M.Sc., M.Phil., B.Ed., Ph.D.,
Assistant Professor in Physics
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12. Dr. A. Prakasam:

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13. Dr. M. Geetha:

Dr. M. GEETHA, M.Sc., M.Phil., Ph.D.,
Assistant Professor in Physics

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14. Dr. P. Senthilkumar:

Dr. P. SENTHILKUMAR, M.Sc., M.Phil., Ph.D.,
Village Administrative Officer
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15. Dr. L. Arivuselvam:

Dr. L. ARIVUSELVAM, M.Sc., M.Phil., Ph.D.,
Head Master
Govt. Tribal Residential Hr. Sec. School
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Salem- 638 138

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16. Dr. K. Lalithambigai:

Dr. K. LALITHAMBIGAI, M.Sc., M.Phil., Ph.D.,
Assistant Professor in Physics
K.S.R Arts and Science College for Women
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17. Dr. K. Suguna:

Dr. K. SUGUNA, M.Sc., M.Phil., Ph.D.,
Principal Grade -I
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18. Dr. P. Ramu:

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19. Dr. K. M. Prabhu:

Dr. K. M. PRABU, M.Sc., M.Phil., Ph.D.,
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20. Dr. P. Sakthivel:

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Salem Sowdeswari College
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21. Dr. D. Sakthi:

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22. Dr. M. Prakasam:

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23. Dr. C. Mohanasundaram:

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B. T. Assistant (Science)

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22. Dr. A. Priyadharsan:

DR. A. PRIYADHARSAN, M.Sc, Ph.D.,

Postdoctoral Researcher at BRIN Indonesia
BRIN (Badan Riset dan Inovasi Nasional)
Gedung BJ Habibie, Jl. M.H. Thamrin No.8, RT.2/RW.1, Kb. Sirih, Kec. Menteng, Kota Jakarta Pusat, Daerah Khusus Ibukota Jakarta 10340, Indonesia

Assistant Professor
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Saveetha Dental College and Hospitals
Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai - 600077, Tamil Nadu
Mobile: 9943243899, 8428526337, e-mail: dharsan69@gmail.com

23. Dr. A. Arunkumar:

Dr. A. ARUNKUMAR, M.Sc, M.Phil., B.Ed., Ph.D.,

Post Doctoral Fellow
C/o Prof. Dr. Xue-Hai Ju
School of Chemistry and Chemical Engineering
Nanjing University of Science and Technology
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24. Dr. C. Indra Priyadharsini:

DR. C. INDRA PRIYADHARSINI, M.Sc, M.Phil., Ph.D.,

Assistant Professor in Physics
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Namakkal
Tamilnadu

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25. Dr. S. Shanavas:

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Post Doctoral Fellow
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Khalifa University
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Abu Dhabi, United Arab Emirates
Mobile: 8667630981, 9842411456, shanashana8@gmail.com

26. Dr. I. RAGAVAN

27. Dr. C. VIDYA

28. Dr. I. SARASAMREEN

29. Dr. S. ARUN KUMAR

VI. Foreign Visits under Educational Exchange or Any other Programmes:

1. **Attended the Joint ICTP-KFAS Workshop on Nanoscience for Solar Energy Conversion 27 - 29 October 2008 (Miramare - Trieste, Italy), The Abdus Salam International Centre for Theoretical Physics at Trieste, ITALY.**
2. **Indo-Hungarian Educational Exchange Programme to visit during Sep-Nov', 2009, Department of Optics and Quantum Electronics, Szeged University, Szeged, HUNGARY**
3. **International Conference LEI-2009, Light at Extreme Intensities, Scientific opportunities and technological issues of the Extreme Light Infrastructure, 16-21. October, 2009, organised by National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania and Transilvania University, Brasov, ROMANIA.**

VII. National Fellowships/Awards/Recognitions/Academic Honours/Distinctions Received:

1. **Cash award for best Oral Presentation in NSPEOS, Meerut – 1997**
2. **GATE'87 Passed and Joined M.Tech (Optoelectronics and Optical Communication), Indian Institute of Technology, New Delhi - 16**
3. **Best Teacher award by Annai Madha Ammal Sheella Trust, at Annai Madha Ammal Sheella Trust Engineering College, Erumapatti, Namakkal on 2.8.2007**
4. **Best Teacher Award by E.R.K Trust, E.R.K Arts and Science College for Women, Erumianpatti, Dharmapuri, Tamilnadu on 1-10-2011**
5. **Best Motivator Award by Vellalar Trust, Erode, Tamilnadu on 14-02-2013**

6. **Best Motivator Award by Pachamuthu Trust, Pachamuthu Arts and Science College for Women, Dharmapuri, Tamilnadu on 28-02-2013**

7. **Best Motivator Award by Rainbow College of Education, Kannoorpatty Road, Puduchatram, Namakkal – 637 018 on 24.02.2015**

8. **ISPA Dr. S. Gunasekaran Awards for the best researchers who have made excellent contributions in the field of Research, during Conference (LASER-2021) organized by ISPA on 14.09.2021**

9. **Receiving ISPA Life Time Achievement Award from the Vice Chancellor, Prof. Dr. R. Jagannathan of Periyar University, Salem during the 3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023) during 14-16th of September, 2023 organised by Department of Physics, Periyar University, Salem, Tamil Nadu, in Association with ISPA held on 14th September 2023 in Commemoration of Remembrance of Prof. Dr. S. Mohan.**

VIII. Convener & Co-Convenor/Chairing Session for the following Conferences/Programmes:

1 **National Symposium on "Photonics and Spectroscopy", organized by Raman School of Physics, Pondicherry University, Pondicherry. NSPS-2001, 14-16, March 2001**

2 **One day State level Seminar on "Laser and its Applications", Organized by Department of Physics, K.M. Centre for P.G, Studies. Pondicherry, 25th and 26th , December, 2001**

3 **Two Days State Level Seminar on "Photonics and its Applications" organized by department of Physics, Kanchi Mamunivar Centre for Post graduate Studies, Lawspet, Pondicherry during, 25th and 28th February, 2003**

4 **"Centenary Celebrations of Einstein's Discoveries" held at Department of Physics, Periyar University, Salem on 28 March 2005.**

5 **Workshop on "Recent Trends in Physical Sciences Research" held at Dept. of Physics, Periyar University, Salem on 29, 30 August 2005.**

6 **National Conference on "Recent Advances in Material Science" held at Periyar University, Salem during 16-17 Feb. 2006**

7 **National Conference on "Recent trends in Vibrational Spectroscopy" (NCVS-2007) held at Department of Physics, Periyar University, Salem during 29-30 January, 2007.**

8 **One day Workshop on "Recent Developments in Nanomaterials Research", held at Department of Physics, Periyar University, Salem, on 31st March, 2008.**

9 **One day Workshop on Recent Developments in Photonics Materials Research held at Department of Physics, Periyar University, Salem, on 12th March, 2009.**

10 **One day Special Lectures on "50 Years of Lasers" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 15th December, 2010.**

11 **One day "Energy Conservation – Awareness Programme" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, on 20th December, 2010.**

12 **National Conference on "Advanced Nanomaterials (ANM-2012)" organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 6-7, February, 2012.**

13 **National workshop on "Electronic Circuit Design and PCB Fabrication" organized by the Centre for Instrumentation and Maintenance Facility (CIMF), Periyar University, Salem, during 27-28, March, 2012.**

14 **One day Workshop on "Recent Advances in Physics Experiments" (WRAPE-2012) held 28th March, 2012 organised by Department of Physics, Periyar University, Salem, Tamilnadu.**

15 **National Science Academies' Lecture workshop on 'Modern Trends in Chemistry' organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, Tamilnadu, during 13-14, August, 2012.**

16 **National Seminar on "Materials for Advanced Technology" organized by Department of Physics, Periyar University, Salem – 636011, Tamilnadu, held on 21.2.2014.**

17 **National Conference on "Advanced Materials" (NCAM-2014), 18-19, July, 2014 organised by PG and Research Department of Physics, Sri Vidya Mandir Arts and Science College, Katteri, Uthangarai, Krishnagiri (District), Tamilnadu, India – 636 902, in Collaboration with Indian Spectrophysics Association (ISPA), Chennai - 600 030, Tamilnadu, India.**

18 **Chairing Session**: Chaired **Technical Session - III** in the **National Workshop on "Advanced Characterization Techniques (ACT-2015)**" organized by Department of Chemistry, Periyar University, Salem – 636 011, Tamilnadu consists of Three Invited Lectures (**Invited Lecture (6) - TGA/DTA given by Prof. J. N. Balaraju**, Principal, NAL, Bangalore; **Invited Lecture (7) – Enantioselective Organic Synthesis to Carbon Materials Research given by Prof. M. Periasamy, F.A.Sc., F.N.A**., School of Chemistry, University of Hyderabad; **Invited Lecture (8) – TEM & AFM given by Dr. J. Mathiyarasu**, Principal Scientist, Electrodics & Electrocatalysis Division, CECRI, Karaigudi on 30.01.2015

19 **Convenor of Programme: Dr. R. Brakaspathy, Advisor/Scientist-G, Department fo Science & Technology (DST) Govt. of India, New Delhi,** Keynote address and Delivered Lecture and participated in the **"Interaction Programme on DST Schemes for Researchers, organized by the Centre for Nanoscience and Nanotechnology on 12.06.2015**

20 **Chairing Session:** Chaired **Technical Session - I** in the **International Year of Light – 2015 Celebrations** organized by School of Physical Sciences, Periyar University, Salem – 636 011, Tamilnadu **Invited Lecture (1) – Nonlinear Optics of Molecules and Materials given by Prof. P. K. Das**, Chairman, Chemical Sciences Division, Indian Institute of Science, Bangalore on 14.10.2015

21 **Chairing Session: Chaired Technical Session - III & IV** in the **National Conference on Advanced Materials (NCAM – 2016)** Organized by Department of Physics, School of Physical Sciences, Periyar University (Re- Accredited with 'A' Grade by NAAC) Periyar Palkalai Nagar, Salem - 636 011, Tamilnadu (Session - III: **Tuning Emission Colour in Inorganic Phosphors for White LEDs** by **Dr. N. Lakshminarasimhan**, Scientist, CSIR- Central Electrochemical Research Institute, Karaikudi & Session - IV: **Nanomaterial Synthesis and Characterization for Energy Efficient Applications** by **Prof. P. Thilakan,** Photon Energy Technology Laboratory, Centre for Green Energy Technology, Pondicherry University, Puducherry) held on 25-26th February, 2016.

22 **Chairing Session: E = MC^2 (EVRA Mass Competitive Champions)** organized by the Department of Physics, Periyar University, Salem-11, held on the occasion ofEinstein's Birthday, 14th March 2016.

23 **Chairing Session: Chaired Presentation – III,** in the **National Conference on Energy, Environment & Ethics (E^3 - 2016)** organized by Department of Engery Studies, Periyar University, Salem – 636 011, Tamilnadu & jointly organized by Centre for New and Renewable Energy Studies (CNRES), Periyar University, Salem – 636 011, Tamilnadu, during 28-29, March, 2016

24 **Chairing Session: Chaired Presentation – III (Topic: Super-resolution Imaging with DNA, Speaker: Dr. Sarit S. Agasti, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)** in the **National Symposium on Recent Advances in Nanoscience and Nanotechnology (NSRANN – 2017)** organized by Department of Physics, Periyar University, Salem – 636 011, Tamilnadu, held on 15.03.2017

25 **Chairing Session: Chaired Presentation – III (Topic: Super-resolution Imaging with DNA, Speaker: Dr. Sarit S. Agasti, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)** in the **National Symposium on Recent Advances in Nanoscience and Nanotechnology (NSRANN – 2017)** organized by Department of Physics, Periyar University, Salem – 636 011, Tamilnadu, held on 15.03.2017

26 **Chaired a Session: In commemoration of of International Day of Light (IDL) an "International Webinar Lecture Series on Laser, Optics and Photoincs"** 11-13, June 2020 organised by Department of Physics, Chikkanna Govt. Arts College, Tiruppur, Tamilnadu, Day-2, Lecture -4, Topic **"Ion Beam Nanofabrication for Subwavelength Optics"** by Dr. Rakesh Mote, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology, Bombay, held on 12.06.2020. Zoom Link, https://us02web.zoom.us/j/84334933273?pwd=OTA3alBjNHc5dGQxaHViQ3hUUFIwZz09,

ZOOM APP(for mobile link), Meeting ID: 843 3493 3273, Password: 397130, You tube link: https://youtu.be/VgDTfk_qRu8.

27 **Chaired a Session: International Conference on Emerging Biomaterials for Advanced Applications (ICEBAA-2022) held during, April 21–22, 2022,** Orgnaised by Department of Physics, and Department of Chemistry, Periyar University, Salem, Tamil Nadu & Department of Clinical Research Sibar Institute of Dental Sciences, Guntur, Andhra Pradesh, **Session – IV, Invited Talk – 7, by Prof. Aline F. Miller,** Manchester Institute of Biotech, **UK, Title: Self-assembling Peptide Hydrogel Materials: From Lab to Clinic, Invited Talk –** 8, by Prof. Amir Eliezer, Vice Chair AMPP Board of Directors, Israel, Title: The Need of Bio-function Surfaces for Medical Implants.

28 **Chaired a Session: National Seminar on "Advanced Energy Materials and Research" (NSAEMR)-2022,** 26th May 2022 to 27th May 2022 organised by Department of Physics, Periyar University, Salem, Tamil Nadu, Session – III, **Invited Talk – 5 by Dr. N. Ponpandian,** Professor and Head, Department of Nanoscience and Nanotechnology, Bharathiar University, Coimbatore, Tamil Nadu, **Title: Synergetic Effect of Overall Water Splitting: Emerging Trends in Bi-Functional Electrocatalysis, Invited Talk – 6 by Dr. M. Arivanandhan,** Professor, Centre for Nanoscience and Technology, Anna University, Chennai-600025, Tamilnadu, Tamil Nadu, **Title: Nanostructured Semiconducting Materials for Energy Harvesting, Invited Talk – 7, Dr. Pandiyarasan Veluswamy,** Indian Institute of Information Technology, Design and Manufacturing, IIITDM, Kancheepuram, Chennai – 600127, Tamilnadu**, Title: Energy Harvesting Materials for Flexible Electronics and Wearable Devices.**

29 **Chaired a Session: Commemoration of Silver Jubilee Year of Periyar University,** Department of Physics organised Special Lectures held on 14.09.2022 at Physics Seminar Hall, Periyar University, Salem. **Prof. Dr. K. Sankaranarayanan, P**rofessor and Head, Department of Physics, Alagappa University, Karaikudi, Tamil Nadu, has given talk on **Unidirectional Organic Scintillators for High Energy Radiation Detector Applications in the session - II.**

30 **Convenor: 3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023) during 14-16th of September, 2023 organised by Department of Physics, Periyar University, Salem, Tamil Nadu, in Association with ISPA held on 14th September 2023 in Commemoration of Remembrance of Prof. Dr. S. Mohan.**

XI. Classes Taught:

B.Sc., M.Sc., M.Phil., Ph.D., M.Tech (Geo)., B.Sc (Agri.)., M.A (Pub. Admn.)., Coaching classes for I.A.S (Prelim and Main Exams.) and Coaching for B.E and M.B.B.S (JIPMER) Entrance Examinations Jointly Organized by Directorate of Social Welfare, Govt. of Puducherry, and Pondicherry University, I.A.S (Prelim.) & NET/SLET Coaching classes, Periyar University, Salem, Tamilnadu.

XII. Collaborative Research Scientists with Other Institutions/Agencies:

Sl. No	Collaborating Scientists	Collaborating Agency	Status	Remarks
1.	Prof. N. Sundaraganesan	Department of Physics (Engg.), Annamalai University, Annamalai Nagar 608 002, India	On Going	Six papers published in the International/Journal Journals and Submitted Three papers to International Journal
2.	Prof. S. Moorthy Babu	Crystal Growth Centre, Anna University, Chennai-25, India	On Going	Twelve papers Published in the International/National Journals
3.	Prof. Laura Ronchi Abbozzo	Atti della Fondazoine Giorgio Ronchi, Fondata da vasco Ronchi, Via S.Felice A Ema, 20 50125 FIRENZE, ITALY	On Going	Six papers published in the International of Micro-optica (Italian Journal of Optics)
4.	Dr. V. Aroulmoji, D.Sc	ARCHES Via Giuseppe Leuzzi 18 I-70013 Castellana Grotte ITALY	On Going	Thirteen papers published and Submitted Three papers to International/ National Journal
5.	Dr. Osvay Karoly	Department of Optics and Quantum Electronics, University of Szeged, H-6720 Szeged, Do´mte´r 9, HUNGARY	On Going	Research work started and results will be published
6.	Dr. Jaroszewicz, Z	Institute of Applied Optics, Department of Physical Optics, Warsaw, Poland and National Institute of Telecommunications, Warsaw, POLAND	On Going	Fifteen papers published and Submitted Three papers to International Journal
7.	Dr. C. Nithya	DST-INSPIRE Faculty Awardee, CEESAT-Centre for Energy & Environmental Science and Technology, National Institute of	On going	Five papers published and submitted Three papers to International Journal

		Technology, Tiruchirappalli, Tamil Nadu, India		
8.	**Prof. Dr. V. Raj**	**Advanced Materials Research Laboratory, Department of Chemistry, Periyar University, Salem 11, Tamil Nadu, India**	**On Going**	Six papers published and submitted Three papers to International Journal
9.	**Dr. Suresh Perumal**	**New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India**	**On Going**	Three papers published and submitted Three papers to International Journal
10.	**Dr. Vajjiravel Murugesan**	**Department of Chemistry, B.S. Abdur Rahman University, Vandalur, Chennai, India**	**On Going**	Three papers published and submitted Three papers to International Journal
11.	**Dr. S. Karthikeyan**	**Environmental Technology Division, Council of Scientific & Industrial Research (CSIR), Central Leather Research Institute (CLRI), Adyar, Chennai, 600 020, India**	**On Going**	Three papers published and submitted Three papers to International Journal
12.	**Dr. S. Bharathkumar**	**National Centre for Nanoscience and Nanotechnology, University of Madras, Guindy Campus, Chennai 600025, India**	**On Going**	Three papers published and submitted Three papers to International Journal
13.	**Dr. A. Mohamed Musthafa**	**Department of General Studies (Physics Group), Jubail University College (Male Branch), Royal Commission of Jubail, Jubail, Kingdom of Saudi Arabia**	**On Going**	Three papers published and submitted Three papers to International Journal
14.	**Dr. T. V. S. Pillai**	**University Department, Anna University of Technology Tirunelveli, Tamilnadu—627007, India**	**On Going**	Three papers published and submitted Three papers to International Journal

15.	**Dr. S. Bhuvaneswari**	**Pondicherry University, Karaikal, U.T of Puducherry, India,PIN 609 605**	**On Going**	One published and submitted Three papers to International Journal
16.	**Dr. N. D'Amelio**	**CBM S.r.l. – Consorzio per il Centro di Biomedicina Molecolare, AREA Science Park, SS 14, Km 163.5, 34149 Basovizza, Trieste, Italy**	**On Going**	One published and submitted Three papers to International Journal
17.	**Dr. A. Toraldo**	**Bracco Imaging SpA-CRB Trieste, AREA Science Park, Building Q, SS 14, Km 163.5, 34149 Basovizza, Trieste, Italy**	**On Going**	One published and submitted Three papers to International Journal
18.	**Dr. V. Ilangovan**	**Department of Physics, K.M.C. for P.G. Studies & Research, Puducherry 605008, India**	**On Going**	Three papers published and submitted Two papers to International Journal
19.	**Prof. S. Ponnusamy & Prof. C. Muthamizhchelvan**	**Centre for Materials Science and Nano Devices, Department of Physics, SRM University, Kattankulathur 603203, Chennai, Tamilnadu, India**	**On Going**	Three papers published and submitted Three papers to International Journal
20.	**Dr. Z. Yaakob**	**Department of Chemical and Process Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, UKM-Bangi 43600, Selangor, Malaysia**	**On Going**	Three papers published and submitted One paper to International Journal
21.	**Dr. S. Aravindan**	**Government Arts College (Autonomous), Salem - 636007, Tamilnadu, India**	**On Going**	Three papers published and submitted Three papers to International Journal
22.	**Dr. T. Mohr & Prof. M. Müller**	**Department of Energy and Drive Systems, University of Applied Sciences, Ulm, Germany**	**On Going**	One paper published and submitted one paper to International Journal

23.	**Prof. Dr. R. Samson Ravindran**	**Mahendra Educational Institutions, Mahendhirapuri, Mallasamudram, Namakkal District, Tamil Nadu, India**	**On Going**	Three papers published and submitted one paper to International Journal
24.	**Dr. B. Balamuralikrishnan**	**Dept. of Food Science & Biotechnology, College of Life Science, Sejong University, Seoul, 05006, South Korea**	**On Going**	One paper published and submitted Three papers to International Journal
25.	**Dr. V. Vasanthakumar**	**Advanced Materials Chemistry Laboratory, Department of Chemistry, Periyar University, Salem 11, Tamil Nadu, India**	**On Going**	Three papers published and submitted Three papers to International Journal
26.	**Dr. S. Karthikeyan**	**Aston Institute of Materials Research (AIMR), Aston University, West Midlands B4 7ET, UK**	**On Going**	Three papers published and submitted one paper to International Journal
27.	**Dr. P. M. G. Nambissan**	**Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata - 700064**	**On Going**	Two papers published and submitted Two papers to International Journal
28.	**Prof. Roberto Acevedo**	**Facultad de Ingeniería Tecnologia, Universidad San Sebastián, Bellavista 7, Santiago 8420524, Chile.**	**On Going**	Ten papers published and submitted Two papers to International Journal
29.	**Dr. Evangelos I. Gkanas**	**Hydrogen for Mobility Lab. Institute for Future Transport and Cities, Coventy University, Perioty Street, Coventy, CVI 5FB, UK**	**On Going**	One paper published and submitted One paper to International Journal
30.	**Dr. Srinivasan Subramanian**	**Materials Science Group, Indra Gandhi Centre for Atomic Research (IGCAR), kalpakkam – 603 102, Tamilnadu, India,**	**On Going**	One paper published and submitted One paper to International Journal

31.	**Prof. Rashmi Bhardwaj**	**Guru Gobind Singh Indraprastha University, India**	**On Going**	Submitted One paper to International Journal
32.	**Prof. Lala B. Sukla**	**Siksha O Anusandhan (SAO) University, Bhubaneswar, Odisha, India**	**On Going**	One paper published and submitted One paper to International Journal
33.	**Prof. Jo-Ann Rolle**	**The City University of New York, USA**	**On Going**	Submitted One paper to International Journal
34.	**Dr. S. Rajeshkumar**	**Nanobiomedicine Lab., Department of Pharmacology, Saveethadental college and Hospital, SIMATS, Saveetha University, Chennai -77, India**	**On Going**	One paper published and submitted One paper to International Journal
35.	**Dr. R. Chandrasekaran**	**Department of Zoology, Mizoram Central University, Aizawl, India**	**On Going**	One paper published and submitted One paper to International Journal
36.	**Dr. Tansir Ahamad**	**Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia**	**On Going**	Three papers published and submitted One paper to International Journal
37.	**Dr. Saad M. Alshehri**	**Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia**	**On Going**	Two papers published and submitted One paper to International Journal
38.	**Dr. Aeysha Sultan**	**Department of Chemistry, University of Education, Faisalabad Campus, Faisalabad, Pakistan**	**On Going**	One paper published and submitted One paper to International Journal
39.	**Dr. G. Velraj**	**College of Engineering, Anna University, Guindy, Chennai - 600025, India**	**On Going**	Two papers Published in the International/National Journals
40.	**Dr. P. Kumaresan**	**Thiru. A. Govindasamy Govt. Arts College, Tindivanam, Tamilnadu, India**	**On Going**	Fifiteen papers Published in the International/National Journals

41.	**Dr. G. Rajarajan**	**Centre for Research and Development, Mahendra Educational Institutions, Tiruchengode – 637 503, Tamilnadu, India**	**On Going**	Eight papers Published in the International/National Journals
42.	**Dr. P. Nallasamy**	**Bharathidasan Govt. College for Women, Pondicherry, India**	**On Going**	Two papers Published in the International/National Journals
43.	**Dr. A. Ibrahim**	**Department of Physics, College of Science King Khalid University, Abha 61413, Saudi Arabia**	**On Going**	One paper Published in the International Journals
44.	**Dr. Mohd Shkir**	**Advanced Functional Materials & Opto - electronic Lab. (AFMOL), Department of Physics, King Khalid University, Abha 61413, Saudi Arabia & School of Science and Technology, Glocal University, Saharanpur 247001, Uttar Pradesh, India**	**On Going**	Ten papers Published in the International Journals
45.	**Dr. P. Baskaran**	**Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kancheepuram, Tamil Nadu - 603 203, India**	**On Going**	One paper Published in the International Journals
46.	**Dr. M. A. Majeed Khan**	**King Abdullah Institute for Nanotechnology, King Saud University, Riyadh 11451, Saudi Arabia**	**On Going**	One paper Published in the International Journals
47.	**Dr. S. Kaya**	**Department of Chemistry, Cumhuriyet University, Sivas 58140, Turkey**	**On Going**	One paper Published in the International Journals
48.	**Dr. Sultan Erkan**	**Department of Chemistry, Faculty of Science, Cumhuriyet University, Sivas 58140, Turkey**	**On Going**	One paper Published in the International Journals

49.	**Dr. Rajneesh Kumar**	**Department of Physics, Institute of Science, Banaras Hindu University, Varanasi 221005, U.P., India**	**On Going**	One paper Published in the International Journals
50.	**Dr. Dinesh Pratap Singh**	**Millennium Institute for Research in Optics (MIRO), Physics Department, Faculty of Science, University of Santiago of Chile (USACH), Santiago, Estación Central 9170124, Chile**	**On Going**	One paper Published in the International Journals
51.	**Dr. Selvaraj Mohana Roopan**	**Chemistry of Heterocycles & Natural Research Laboratory, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore, Tamilnadu, India**	**On Going**	Three papers Published in the International Journals
52.	**Dr. Quyet Van Le**	**Department of Materials Science and Engineering, Institute of Green Manufacturing Technology, Korea University, 145 Anam-ro, Seongbuk-gu, Seoul 02841, South Korea**	**On Going**	One paper Published in the International Journals
53.	**Dr. Mohammad Abu Haija**	**Department of Chemistry, Khalifa University of Science and Technology, P.O. Box 127788, Abu Dhabi, United Arab Emirates** **Center for Catalysis and Separations, Khalifa University of Science and Technology, P.O. Box 127788, Abu Dhabi, United Arab Emirates**	**On Going**	One paper Published in the International Journals
54.	**Dr. Venkatraman Madurai**	**School of Physics, Madurai Kamaraj**	**On Going**	One paper Published in the International

	Ramakrishnan	**University, Madurai, India**		Journals
55.	**Dr. Vasudeva Reddy Minnan Reddy**	**School of Chemical Engineering, Yeungnam University,** **Gyeongsan 38541, Republic of Korea**	**On Going**	One paper Published in the International Journals
56.	**Dr. V. Balasubramani**	**Department of Physics, Saveetha School of Engineering,** **Saveetha Institute of Medical and Technical Sciences,** **Chennai, Tamilnadu 602105, India**		
57.	**Dr. Mohd Shkir**	**University Center for Research and Development (UCRD),** **Chandigarh University, NH95, Chandigarh-Ludhiana** **Highway, Gharuan, Mohali, Punjab 140413, India**	**On Going**	One paper Published in the International Journals
58.	**Dr. Woo Kyoung Kim**	**School of Chemical Engineering, Yeungnam University, Gyeongsan 38541, Republic of Korea**	**On Going**	One paper Published in the International Journals
59.	**Dr. Balasubramani Vellingiri**	**Department of Physics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai,** **Tamil Nadu 602 105, India**	**On Going**	One paper Published in the International Journals
60.	**Dr. F. Maiz**	**Department of Physics, Faculty of Science, King Khalid University, P.O. Box 9004, Abha 61413,**	**On Going**	One paper Published in the International Journals

		Saudi Arabia		
61.	Dr. Xue-Hai Ju	School of Chemistry and Chemical Engineering, Nanjing University of Science and Technology, Nanjing 210094, People's Republic of China	On Going	One paper Published in the International Journals

XIII. Public contributions:

A. Social Service/Activities:

1. **Donated ancestor property/home to conduct Sarva Shiksha Abhiyan (SSA) at 72-A, Panduvan Ukkadai, Nalladai – 609 306 (Post), Tranquebar (Taluk), Mayiladuturai (District), Tamilnadu.**

2. **National AIDS awareness Campaign organized by Nehru Yuva Kendra at Pondicherry (Karaikal) on 5th April, 1992 and delivered a talk on "Rural Pupil and their Scientific Thought".**

3. **As an Associate N.C.C. Officer, Organised the Blood Donation Camp at Sanipeyarchi Thirunallar Temple, Karaikal, Govt. of Pondicherry during 7th, December. 1995**

4. **Given talks in the All India Radio (FM), Karaikal and Pondicherry:**

   a. **Group Discussion on Thanthai Periyar E. V. Ramasamy (17-9-1993) as a (Renaissance) Social Reformer.**

   b. **Group Discussion on Dr. B. R. Ambedkar (14.4.1995) about his Social Upliftment.**

   c. **A talk on "Stars and its Evolutions" Science day Celebration (28-2-1997)**

   d. **A talk on "Sir Albert Einstein and his Scientific Achievements" (28-2-1999)**

B. Periyar University Assignments

Library: As a Library In-charge, subject books are circulated and advised the students to refer in the Department of Physics Library, Periyar University, Salem. (Total books:

2500 books are available) from the year 2005 to 2012.

C. Other University Assignments:

1. External Expert Committee Member: Acted as an Expert in Technical Committee meeting for the purchase of GPU Computational cluster under DST-SERB project held on (Wednesday) 21.09.2022 @11.00AM via google meet. Technical Committee Meeting DST-SERB Project, Wednesday, September 21, 2022, at 11.00 am, Google Meet joining info, Video call link: https://meet.google.com/qwj-dpxf-sxy, Conducted by Dr. L. Senthilkumar, Professor and Head, Department of Physics, Bharathiar University, Coimbatore, Tamil Nadu.

2. External Expert Committee Member: Review Meeting held under the mentorship Prof. M. Krishnan & Prof. K. Thamilmaran for DST-SERB projects at Bharathidasan University, Trichy to purchase Mixed Signal Oscilloscope (MSO) under DST PURSE (II Phase) Program. In this connection, I acted as an External Expert Committee Member to participate in the negotiation meeting fixed on 4th January 2018 at 2.30 pm at Centre for Nonlinear Dynamics, School of Physics, Bharathidasan University, Tiruchirapalli – 620 024.

Chairman/Convenor/Academic Council Nominee/Member for Course Affiliation Committee to Start New Courses in Constituent/Affiliated Colleges of Periyar University and Other Assignments (68 Colleges):

1. **Chairman: Board of Studies – University Industrial Collaborative Programme (UICP) for syllabus framing to the following new courses from the academic year 2016 - 2017 (i) B.Sc (Radio Imaging Technology) (ii) Diploma Radio Imaging Technology (iii) Diploma in Laboratory Technology (iv) Diploma in Critical Care Management (v) Diploma in Hotel Management and Catering Science. First meeting was held at PRIDE on 25.10.2016 to submit Programmes Eligibility, Duration, Programme Pattern, Scheme of Examination, Question Paper Pattern, Model Question Paper, List of Examiners, Question paper Setters and any other related Particulars.**

2. **Chairman: P.G. Board of Examinations, Ten Years (2005-2008, 2010-11, 2013-14, 2014-15, 2015-16 & 2016-17), P.U., Salem.**

3. **Chairman: M.Sc (Electronic Sciences) Question Setter's Committee, Madras University, Chennai – 600 005 from the academic 2010-2011 onwards.**

4. **Resource person for BSNL Staff: - Six months training programme organized by Departments of Commerce, Physics and Tamil, Periyar University, Salem, held during May-2006 to Oct-2006**

5. **Inspection Committee Member: to give permanent affiliation to Govt. Arts College, Dharmapuri. (2006-2007)**

6. **Inspection Committee Member: to give affiliation to the course B.Sc (Electronics and Communication), Vivekanandha College, Thiruchengode, Namakkal. (2005-2007)**

7. **Additional Chief Superintendent: Pride Centres at Dharmapuri, Krishnagiri, Tiruppathur, Pondicherry, Hosur, Vellore, Mecheri and Mettur (2005-2007).**

8. **Industrial Visit to Salem Steel Plant on 17.3.2007 along with M.Sc students, M.Phil and Ph.D Scholars for learning CRM & HRM and visit to WRI, BHEL, Trichy on 9-1-2007 for Laser materials Processing.**

9. **Convenor: M.Sc (Physics-CBCS) Entrance–cum- Selection Committee for the year 2006-2007 Admission.**

10. **Observer: PRIDE Examinations, Periyar University, Salem-636 011, from 26-11-2007 to 11-12-2007 at JNRM College, Andaman and Nicobar Islands.**

11. **Coordinator: Periyar University Examinations & Engineering Examinations from 4-5-2008 to 14-8-2008**

12. **Additional Controller of Examinations (i/c), Periyar University, Salem from 15-4-2009 to 15-1-2010.**

13. **Camp Officer (Revaluation), Periyar University, Salem, from 27-7-2010 to 1-10-2010**

14. **Inspection Committee Member: to give affiliation to Viswa Bharathi Arts and Science College, Murappur, Dharmapuri Dist. (2011-2012) on 20-12-2010**

15. **Camp Officer (PG): Periyar University, Salem, from 22-11-2010 to 08-03-2011**
16. **Camp Officer (PG): Periyar University, Salem, from 15-04-2011 to 22-8-2011**

17. **Inspection Committee Member: to give permanent affiliation to Vidya Mandir College for Arts and Science, Uthangarai (2011-2012) on 13-12-2011**

18. **Inspection Committee Member: to give permanent affiliation to Sengunthar Arts and Science College, Tiruchengode, Namakkal Dist. (2011-2012) on 14-12-2011**

19. **Inspection Committee Member: to give permanent affiliation to Selvamm Arts and Science College, Namakkal Dist. (2011-2012) on 19-12-2011**

20. **Inspection Committee Member: to give permanent affiliation to Govt. Arts College, Dharmapuri (2011-2012) 0n 27-01-2012.**

21. **Board of Studies Meeting: to UG Physics at the Department of Physics, Vivekananda College for Women held on 21-02-2012**

22. **Inspection Committee Member: to give M.Sc (Physics) affiliation to KSR College and Arts & Science College, Thiruchengodu, Namakkal Dist. (2011-2012) on 22-05-2012**

23. **Inspection Committee Member: Permission to start M.Sc (Physics) affiliation to A.A.G.A College, Namakkal on 31-07-2012**

24. **Inspection Committee Member: Permission to start M.Sc (Physics) affiliation to A.A.G.A College, Attur on 01-08-2012**

25. **Inspection Committee Member: Permission to start M.Phil (Physics) affiliation to Thiruvalluvar Arts College, Rasipuram on 01-10-2012**

26. **Inspection Committee Member: to give permission to start addition UG course affiliation to Shree Saradha Nikethan Arts and Science College for Women, Dhakshineswaram, Kanavaiputhur, Omalur (Taluk), Salem - 636 354 (2012-2013) on 28-11-2012**

27. **Inspection Committee Member: Permission to start M.Phil (Physics) affiliation to Shree Vidya Mandir College for Arts and Science, Uthangarai on 1-12-2012**

28. **Inspection Committee Member: Permission to start B.Sc (Physics - Additional Course) affiliation to E.R.K Arts and Science for Women, Erumianpatti, Dharmapuri District, Tamilnadu on 10-06-2013**

29. **Inspection Committee Member: Permission to start B.Sc (Physics - Additional Course) affiliation to A.V.S Arts and Science College, Salem-636 106, Tamilnadu on 24-07-2013**

30. **Inspection Committee Member: Addition of 5 students to M.Phil (Physics) Course in addition to 15 students existing at Kandasamy Kandar College, Paramatti Velur, Namakkal, Tamilnadu on 4-09-2013**

31. **Inspection Committee Member: Permission to start B.Sc (Physics - Course) affiliation to Govt. Arts & Science College for Women, Barugur, Krishnagiri (Dt), Tamilnadu on 10 -10-2013**

32. **Inspection Committee Member: Permission to start M.Phil (Physics - Course) affiliation to Arignar Anna Govt. Arts College for Men, Namakkal (Dt), Tamilnadu on 22-11-2013**

33. **Inspection Committee Member: Permission to start M.Phil (Physics - Course) affiliation to Pachaimuthu Arts and Science College for Women, Dharmapuri (Dt), Tamilnadu on 22-02-2014 & 5.4.2014**

34. **Academic Council Member: Academic Council Meeting attended for Modification in the syllabi at Sri Sarada College for Women on 20.03.2014.**

35. **Board of Studies Meeting held at Department of Physics, Selvamm Arts and Science College (Autonomous), Namakkal on 5.6.2014**

36. **Inspection Committee Member: Permission to start M.Phil (Physics - Course) affiliation to Govt. Arts College, Krishnagiri (Dt), Tamilnadu on 28-08-2014.**

37. **Inspection Committee Member: Permission to start M.Phil (Physics - Course) affiliation to Arignar Anna Arts & Science College, Krishnagiri (Dt), Tamilnadu on 08-04-2015.**

38. **Board of Studies Meeting held at Department of Physics, Selvamm Arts and Science College (Autonomous), Namakkal on 21.04.2015**

39. **Inspection Committee Member: Permission to start B.Sc (Physics – Additional Section) course to Lakshinarayana Arts & Science College for Woemn, Thadagam Village, Thokkampatti Post, Dharmapuri Dist. – 636 705 on 4.05.2015**

40. **Inspection Committee Member: Permission to start M.Sc (Physics - Course) affiliation to Morappur Kongu Arts & Science, Vengiyampatti, Morappur, Harur Taluk, Dharmapuri – 635 305 on 5.5.2015**

41. **Convenor, Inspection Commission: Permission to start B.Sc (Physics - Course) affiliation to Vidya Arts ansd Science College, Koranam Patti (Village), Edappady (Taluk), Salem (district) – 637 102 on 6.5.2015**

42. **Convenor, Inspection Commission: Permission to start B.Sc (Physics - Course) affiliation to Salem Kongu Arts ansd Science College, Bangalore Main Road, Mamangam, Salem – 636 302 on 6.5.2015**

43. **Inspection Committee Member: Permission to start B.Sc (Physics - Course) affiliation to Sri Jayajothi Arts & Science College for Women, Jalakandapuram Main Road, Tharamangalam, Salem – 636 502 on 07-05-2015.**

44. **Inspection Committee Member: Permission to start M.Sc (Physics - Course) affiliation to Kailash College for Women, Mettur (Taluk), Nangavalli, Periya Sorakai (Village), Salem, on 08-05-2015**

45. **Inspection Committee Member: Permission to start M.Sc (Physics - Course) affiliation to Adhiyaman Arts and Science College for Women, Sirnivasa Nagar, Uthangarai, - 635 207, Krishnagiri (District) on 08-05-2015**

46. **Inspection Committee Member: Permission to start M.Sc (Physics - Course) affiliation to Kailash College for Women, Mettur (Taluk), Nangavalli, Periya Sorakai (Village), Salem, on 11-05-2015**

47. **Inspection Committee Member: Permission to continue B.Sc (Physics - Course) affiliation to Sherveroy Arts and Science College, Vazhavanthi, Yercaud on 16-07-2015**

48. **Inspection Committee Member: Permission to start B.Sc (Physics - Course) affiliation to Kavitha's Arts and Science College (Co-Education), Chinna Manali, Thiruchengode (Taluk), Namakkal (District) on 21-07-2015**

49. **Inspection Committee Member: Permission to continue B.Sc (Physics – Additional Course) affiliation to Vivekananda Arts & Science College for Women, Elayampalayam, Thiruchengode on 21-08-2015**

50. **Inspection Committee Member: Permission to continue B.Sc (Physics – Additional Course) affiliation to Bharathiar Arts & Science College for Women, Deviyakuruchi, Attur on 22-08-2015**

51. **Inspection Committee Member: Permission to continue B.Sc (Physics – Additional Course) affiliation to Shri Sakthi Kailassh Arts & Science College for Women, Ammapet, Salem - 636003 on 27-08-2015**

52. **Inspection Committee Member: Permission to start B.Sc (Physics - Course) affiliation to Sri Arunachala Arts and Science College (Co-Education), Mathampatti, Palacode (Taluk), Dharmapuri (District) on 3-09-2015**

53. **Inspection Committee Member: Permission to start B.Sc (Physics - Addiditonal affiliation Course) to Padmavani Arts & Science College for Women, Opposite to Periyar University, Salem – 636 011 on 07-10-2015**

54. **Inspection Committee Member: Permission to start M.Phil (Physics) affiliation Course to Sivagamiammal College of Arts & Science, Kattinayanapalli, Krishnagiri – 635 001 on 6-11-2015 & Permission to continue M.Sc (Physics) Course affiliation on 31.10.2015**

55. **Inspection Committee Member: Grant Permission for Conducting full-time & part-time Ph.D research programme in Physics Discipline from the Academic Year 2015-16 to Department of Physics, Government Arts College (Men), Krishnagiri – 635 001 on 16.02.2016**

56. **Inspection Committee Member: Permission to start M.Phil (Physics) affiliation Course to E.R.K Arts and Science for Women, Erumianpatti, Dharmapuri District, Tamilnadu on 17.02.2016**

57. **Inspection Committee Member: Permission to start B.Sc (Physics) New affiliation Course to Unique College of Arts & Science, Karapputtu, Uthangarai (TK), Krishnagiri District, Tamilnadu on 16.09.2017**

58. **Inspection Committee Convenor-cum-Member: Grant Continuous Affiliation for Conducting B.Sc (Physics) Course at Salem Kongunadu Arts & Science College, Mamangam, Salem on 13.12.2017**

59. **Inspection Committee Member: Permission to start B.Sc (Physics) New affiliation Course to AES Arts and Scienc College, Periyapanamutlu, Anchoor (PO), Bargur (TK), Krishnagiri District, Tamilnadu on 24.12.2020**

60. **Inspection Committee Member: Grant Continuous Affiliation for Conducting B.Sc (Physics) Course at Sir Vidya Kamachi Arts and Science College for Women, Amaram & (PO), Mettur (TK), Salem (Dt.) – Tamilnadu - 636451 Taon 24.12.2020**

61. **Inspection Committee Member and Subject Expert for continuance of Provisional Affiliation (B.Sc – Physics) at Sri Vidya Kamachi Arts and Science College for Women, Amaram, Mecheri, Mettur on 08.01.2021**

62. **Inspection Committee Member: Grant Continuous Affiliation for Conducting M.Sc (Physics) Additional Course at Vidya Mandir College for Arts and Science, Uthangarai on 05-02-2021**

63. **Inspection Committee Member and Subject Expert: Permission to start M.Sc (Physics - Course) affiliation to Jayam Arts and Science College, Dharmapuri District on 26.05.2022**

64. **Academic Council Nominee: Attended Academic Council meeting on 21.10.2022 for the academic year 2022-2023 at Vivekandha College of Arts and Sciences for Women (Autonomous) Tiruchengode - 637 205, Tamil Nadu**

65. **Inspection Committee Member and Subject Expert: Permanent Affiliation of B.Sc (Physics - Course) to Government Arts and Science College, Kumarapalayam - 638 183 on 25.04.2023**

66. **Academic Council Nominee: Attended 13th Academic Council meeting on 16.06.2023 at Board Room, Vivekandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode - 637 205, Namakkal (Dist.), Tamil Nadu.**

67. **Inspection Committee Member and Subject Expert: Continuance of Provisional Affiliation to M.Sc (Physics - Course) affiliation to Jayam Arts and Science College, Nallur, Dharmapuri District - 636813 on 11.08.2023**

68. **Governing Body Nominee for the selection of Assistant Professor (Aided) in Physics at Erode Arts and Science College (Autonomous), Erode on 19.09.2023**

XIV. Experience in Developing "E-Content" for Courses in Physics Discipline or Any Other Area.

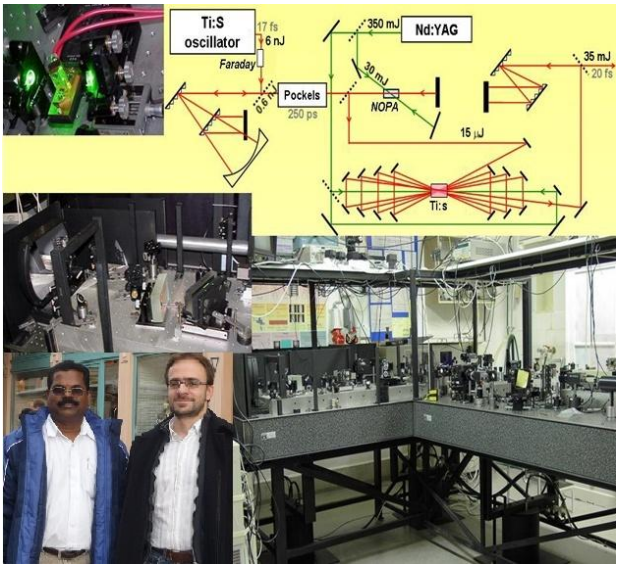
M.Phil (Physics) - Advanced Physics - Paper-II & Paper-III (Laser Physics - Micro optics/ Nano-optics) of Distance Education through intranet of Periyar University & ZEMAX Optical design through e-content, as a licensed software holder.

XV. Other academic, professional, administrative or any other information to bring to the attention of the Selection Committee:

Co-Curricular Activities with Other Universities:

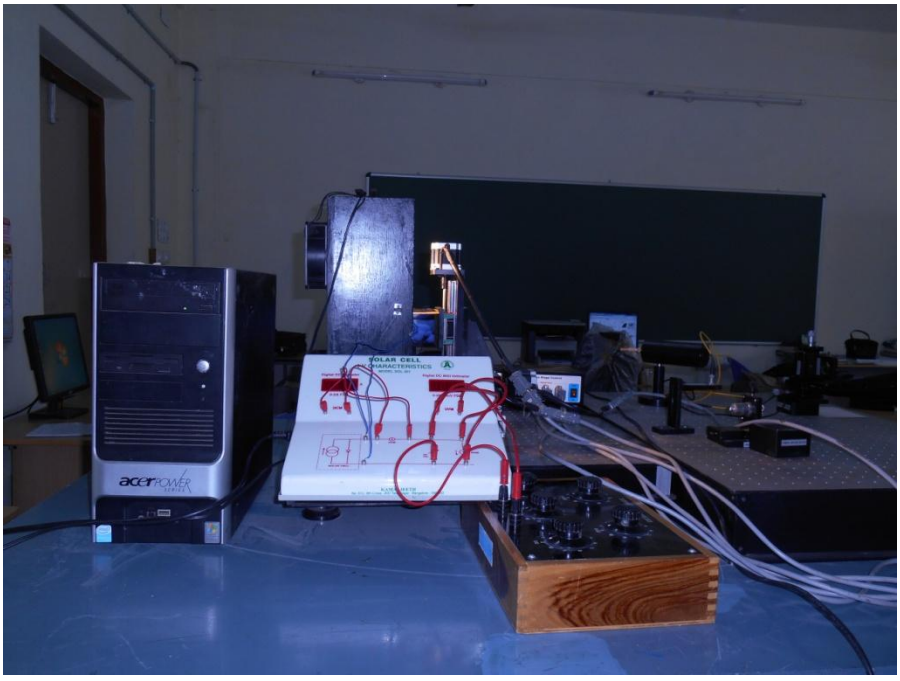
1. Annamalai University – Board of Studies & Examinations, Question Paper Setter's Committee - Chidambaram
2. Pondicherry University – Member, PG Board of Studies
3. Mother Teresa University – Question Paper Setter's Committee, Kodaikanal
4. Bharadhidasan University – Question Paper Setter's Committee, Trichy
5. Vellore Institute of Technology - Vellore
6. Crystal Growth Centre, Anna University, Chennai-25
7. M.S. University of Technology, Baroda, Gujarat
8. Cochin University of Science and Technology, Cochin
9. Kerala University, Kerala
10. Member, Board of Studies, K.M.C.P.G.S, Puducherry
11. Bharathidasan College for Women, Pondicherry
12. Faculty Selection Committee, Saradha College for Women, Salem
13. N.A.S College, Meerut, U.P.
14. Madurai Kamaraj University – Question Paper Setter's Committee
15. K.S.R. Arts and Science College – Member, Board of Study and Question Paper Setter's Committee
16. Karpagam University, Coimbatore
17. Chairman, Question Paper Setters Committee, M.Sc (Electronic Sciences), Madras University, Chennai - 5
18. A.V.V.M College, Poondi Pushpam College, Tanjore, Tamilnadu
19. Bharathiar University, Coimbatore - Question Paper Setter's Committee
20. Lucknow University, U.P
21. Subject Expert, Faculty Selection Committee, Mizoram Central University
22. Alagappa University, Karaigudi - Question Paper Setter's Committee
23. Periyar Maniammai University, Vallam, Thanjavur – 613 403, Tamilnadu
24. Member, College Academic Council, Sri Saradha College for Women, Salem
25. Manonmaniam Sundaranar University, Tirunelveli
26. Board of Studies (CBCS), Selvamm Arts and Science College (Autonomous), Namakkal
27. T.B.M.L College, Porayar - 609307, Tamilnadu
28. Mother Teresa University – SET Question Paper Setter's Committee at ANNA University, during 23-25, January, 2016
29. Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.
30. Expert, Faculty Selection Committee, Madras University, Chennai – 5
31. Member, P.G. Board of Studies (CBCS), Thiruvalluvar University, Vellore – 632 115
32. University Nominee, BOS, Govt. Arts College, Salem-7
33. Nesamony Memorial Christian College, Marthandam - 629 165

34. University College of Engineering, Anna University Constituent College, Konam, Nagercoil, Tamilnadu-629004
35. S.T.Hindu College, Nagercoil - 629 002
36. Arul Anandar College, Madurai
37. Govt. Arts College, Udumalpet
38. Holy Cross College, Nagercoil
39. St. Xavier College, Palayamkottai
40. Dravidian University, Kuppam
41. Member, P.G. Board of Studies, PKR Arts College for Women, Gobichettipalayam
42. Subject Expert, Faculty Selection Committee, Ayya Nadar Janaki Ammal College, Sivakasi
43. Scott Christian College, Nagercoil
44. V.C Nominee, Thiruvalluvar University – Principal Selection to Anand Arts and Science College, Thandrambattu, Thiruvannamalai (dist.), TN.
45. V.C Nominee, Thiruvalluvar University, Board of Studies - Theivanai Ammal College for Women, Villupuram, Tamilnadu.
46. The Gandhigram Rural Institute (Deemed to be University) Gandhigram – 624 302, Dindigul, Tamil Nadu



Extreme Light Intensity Titanium-Sapphire Laser Laboratory, Department of Optics and Quantum Electronics, Szeged University, Szeged, HUNGARY

Participants in LEI 2009, Aula of Transylvania University, Braşov, Romania (Myself first row 4th from left), Prof. Gerard Mourou, Nobel Prize Winner (Physics) in 2018 (Red Coloured Shirt).



DSSC & Silicon Solar Cells Testing Method in Laser and Nano-Optics Laboratory, Department of Physics, Periyar University, Salem - 636011

D.Sc Degree received from the Governor & Chancellor of Tamil Nadu, Shri. R. N. Ravi at Periyar University Convocation on 28.06.2023


VENTY FIRST CONVOCA
004-W

ELI hosts its first major conference

ELI's first international conference, Light at Extreme Intensities or LEI, was held on 16–21 October 2009 at Transylvania University of Braşov, Romania.

The participants in LEI 2009, which took place in the Aula of Transylvania University of Braşov.

The field of lasers with ultrashort pulses and very high intensity ("extreme light") has evolved and matured tremendously in the past few years. ELI's preparatory phase (ELI-PP) has contributed to the progress of the field at an astonishing speed, opening up new research directions and challenging the frontiers of high-field science and ultrafast technologies.

"Ultrashort laser pulses" refers to light pulses with a duration measured in femtoseconds (1 fs = 10^{-15} s, which corresponds to about half a period of red light) or even attoseconds (1 as = 10^{-18} s). This timescale became possible thanks to scientific and technological progress in the generation, amplification and measurement of ultrashort laser pulses (fs) and ultrashort laser-generated pulses (as). ELI, devoted to building the most powerful laser in the world (exawatt class), will be able to address laser-matter interaction in the hitherto unreachable intensity regime, the ultra relativistic regime (10^{24} W/cm^2), where electrons and ions in the laser field exhibit relativistic character.

The purpose of the LEI 2009 conference, intended as the first of a series, was to assemble researchers from Europe and beyond, with the aim of designing both ELI and the future experiments that can be carried out using the facility. The conference topics were:

- high-field physics;
- lasers;
- secondary sources of particles;
- attosecond physics;
- secondary sources of X-rays.

The conference was attended by 180 people from 23 countries. They were scientists, researchers, students and also officials from the EU and from the education and research ministries of countries in the ELI consortium.

For the opening session we were honoured to be spoken to by Marius Enachescu ("First ELI conference organized in an ELI host country"), Hervé Péro ("Policy developments and challenges at European level in the field of research infrastructures"), Carlo Rizzuto ("A vision for the research infrastructures in the ERA year 2020"), Wolfgang Sandner ("Laserlab Europe") and Gérard Mourou ("High-intensity physics with ELI"). During the 15 sessions held over five days, 13 plenary talks, 22 invited talks and 31 oral talks were presented. The poster session (held simultaneously with a display and tasting of cheese and wines from participating countries) had 47 contributions. Another special session discussed the roles of the ELI sites decided by the consortium on 1 October 2009 (in the Czech Republic, Hungary and Romania).

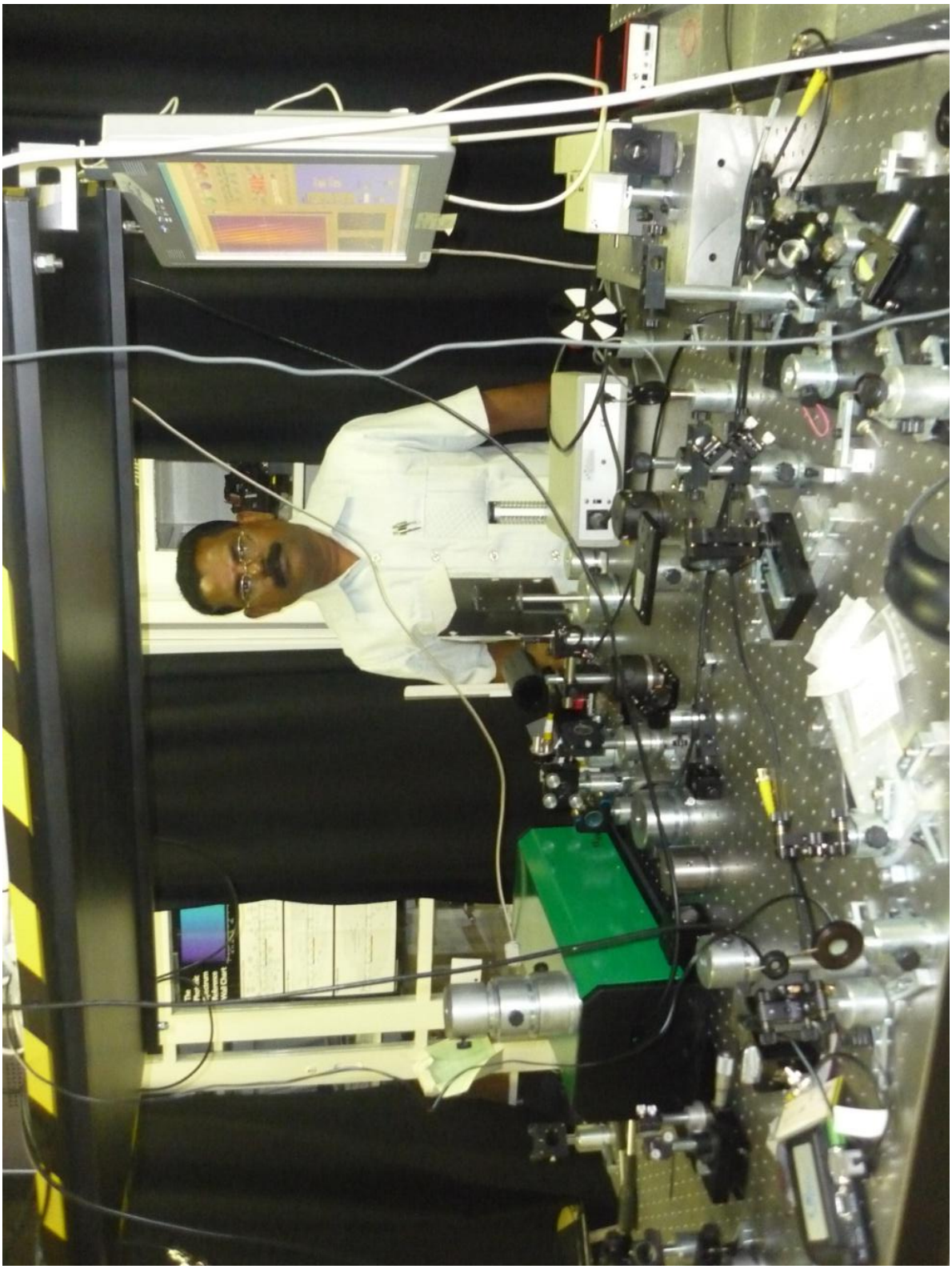
An international jury headed by Prof. Toshiki Tajima selected three scientists to be awarded for the best contributions of young authors (under 35 years) to the conference. The winners were Dr Saumyabrata Banerjee (Rutherford Appleton Laboratory, UK), Dr Samuel Martins (Instituto Superior Tecnico, Portugal) and Dr Zsuzsanna Major (Max-Planck-Institut für Quantenoptik, Germany).

A one-day social programme was offered to participants, including visits to Peles and Pelisor royal castles in Sinaia, Dracula Castle in Bran (see illustration on the front cover) and a banquet at Bran Inn.

The 54 papers from the conference will be published soon by the American Institute of Physics as a formal conference proceedings. The next LEI conference will be held in 2011 in the Hungarian town of Szeged.

Prof. Dan C Dumitras, organizing committee

Participants in LEI 2009, which took place in the Aula of Transylvania University of Braşov, Romania (Myself - first row 4th from left) - Prof. Gerard Mourou, Nobel Prize Winner in Physics in 2018 (Red Coloured Shirt).



Myself working in Prof. Dr. Osvay Karoly, Head, Laser Group, Department of Optics and Quantum Electronics, Szeged University, Szeged, HUNGARY Laboratory under Indo-Hungarian Educational Exchange Programme during, Sep-Nov', 2009.

Trained ZEMAX Optical designer, as a Licensed Software Holder. Wavelab Scientific Pvt., Ltd., Innovative Solution, Singapore based Zemax Development Corporation, USA.

LIFE MEMBER

SOLAR ENERGY SOCIETY OF INDIA

SOLAR ENERGY SOCIETY OF INDIA (SESI)

Membership Certificate

This is to certify that **Prof. P.M. Anbarasan**

is a member of Solar Energy Society of India (SESI).

Membership No. **LM/1680/2011**

Ajay Prakash Shrivastava
President

SOLAR ENERGY SOCIETY OF INDIA (SESI)
(Indian Section of International Solar Energy Society)
A-14, Mohan Cooperative Industrial Estate
Mathura Road, New Delhi 110 044
Telephone.: +91-11-65649864, Telefax: +91-11-26959759
E-mail: dg_sesi@yahoo.co.in, info@sesi.in
Website: www.sesi.in

Rajinder Kumar Kaura
Secretary General

CERTIFICATE

This is to certify that Professor Ponnusamy Munusamy Anbarasan, Department of Physics, Periyar University, Salem - 636011, Tamil Nadu, delivered a talk entiled, "Boosting Laser Pulses to Extreme Light Intensities Through OPCPA Technique for Nuclear Waste Management" in International Day of Light - Light for LITE (Innovation, Thought and Education) organised by IEEE Photonics Society, IIT, Bombay on 16th May, 2020

Lekshmi Eswaramoorthy
President - OSA Student Chapter IITB

Abhay Anand V S
President - IEEE Photonics Student Chapter IITB

OSA The Optical Society

IEEE Photonics Society

ரெயின்போ கல்வியியல் கல்லூரியில்

பட்டமளிப்பு விழா

நாமக்கல், ஜூன்.12–

நாமக்கல் மாவட்டம் புதுச்சத்திரம் ரெயின்போ கல்வியியல் கல்லூரியில் 6–வது பட்டமளிப்பு விழா நடைபெற்றது. விழாவுக்கு கல்லூரியின் தலைவர் என்ஜினீயர் மாணிக்கம் தலைமை தாங்கினார். ராசிபுரம் திருவள்ளுவர் அரசு கலைக்கல்லூரி இயற்பியல் பேராசிரியர் சுப்பிரமணியன், கருப்பூர் அரசு மேல்நிலைப் பள்ளி முதுகலை ஆசிரியர் பெருமாள் ஆகியோர் முன்னிலை வகித்தனர். பெரியார் பல்கலைக்கழக இயற்பியல் துறை பேராசிரியரும், நானோ அறிவியல்–தொழில் நுட்பமைய ஒருங்கிணைப்பாளருமான அன்பரசன் சிறப்பு விருந்தினராக கலந்து கொண்டு மாணவ, மாணவிகளுக்கு பட்டங்கள் வழங்கினார். பின்னர் அவர் பேசுகையில், ஆசிரியர்களின் பங்கு சமூகத்திற்கு மிகவும் அவசியம் என்றும், இளைய தலைமுறையை ஊக்குவிக்க வேண்டியது அவசியம் என்றும், அனைத்திற்கும் மேலாக மாணவர்களின் முன்னுதாரணமாக ஆசிரியர்கள் திகழ வேண்டும், தங்களது பணிகளை செவ்வனே செய்து சமுகத்தை வடிவமைக்கும் சிற்பிகளாக ஆசிரியர்கள் அமைய வேண்டும் என்றார்.

விழாவில் 2012–2013 மற்றும் 2013–2014–ம் கல்வியாண்டுகளில் பி.எட்.பட்ட வகுப்பில் பயின்று தேர்ச்சி பெற்று முதல் 3 தரவரிசையில் இடங்களை பிடித்தவர்களுக்கு தங்கம், வெள்ளி பதக்கங்களும் நினைவு பரிசுகளும் வழங்கப்பட்டன. மேலும் 187 மாணவ, மாணவியர்கள் பட்டங்களை பெற்று உறுதிமொழி எடுத்துக் கொண்டனர். இதில் கல்லூரி நிர்வாக குழு இயக்குனர்கள், துறைத்தலைவர்கள், பேராசிரியர்கள், பட்டதாரிகள், பெற்றோர்கள் உள்ளபட பலர் கலந்து கொண்டனர்.

Degree awarded as a Chief Guest in the Sixth Convocation held at Rainbow Education College, Puduchatram.

Receiving <u>ISPA Life Time Achievement Award</u> from the Vice Chancellor, Prof. Dr. R. Jagannathan of Periyar University, Salem during the 3rd International Conference on Light Applications in Science and Engineering Research (LASER – 2023) during 14-16th of September, 2023 organised by Department of Physics, Periyar University, Salem, Tamil Nadu, in Association with ISPA held on 14th September 2023 in <u>Commemoration of Remembrance of Prof. Dr. S. Mohan.</u>

Indian SpectroPhysics Association (ISPA)

&

Periyar University, Salem

3rd International Conference on Light Applications in Science, Engineering and Research (LASER - 2023)

In Commemoration of Remembrance of Prof. Dr. S. Mohan

ISPA Life Time Achievement Award

Conferred on

Prof. P.M. ANBARASAN, Ph.D., D.Sc.

Professor, Department of Physics
Director, Centre of New and Renewable Energy Studies
Periyar University, Salem

Professor P.M. Anbarasan, born on the **29th of May 1964**, has traversed an illustrious academic journey marked by unwavering dedication and relentless pursuit of knowledge. His educational odyssey commenced with a **B.Sc. in Physics from the University of Madras in 1986**, followed by an **M.Sc. in Physics from Bharathidasan University** in the year 1988. He furthered his scholarly pursuits by attaining a **Ph.D. in Laser Physics/Micro-optics from Pondicherry Central University in 2001**, and his thirst for knowledge culminated in **the distinguished Doctor of Science (D.Sc.) in Physics from Periyar University, Salem, in 2022**.

Professor Anbarasan embarked on his **teaching career as a Lecturer at Pondicherry University from 1998 to 2005**, where he sowed the seeds of academic enlightenment. Subsequently, he ascended the academic ladder, assuming the role of **Associate Professor in Physics at Periyar University from 2006 to 2008**, a position that served as a stepping stone to his current status as a revered Professor within the same institution. His expertise spans the diverse realms of **Laser and Spectroscopy, Nano-optics, Solar cells, Materials Science, Photo catalysts, Renewable Energy, and Quantum chemical calculations**.

With over three decades of profound experience in the fields of laser and spectroscopy, Professor Anbarasan's intellectual footprint extends far and wide. His scholarly contributions manifest through the presentation of **300 papers at national and international conferences, seminars, and workshops**, complemented by the meticulous organization of **17 such events**. His mentorship has nurtured the academic growth of **17 Ph.D. students**, while also guiding numerous M.Phil. and M.Sc. projects. An impressive compendium of **300 research papers in refereed journals attests to his prolific research output, accentuated by an esteemed h-index of 22, an i10 index of 57**, and a remarkable citation count of 1746. Furthermore, his authorship extends to seven scholarly books.

Professor Anbarasan's scholarly endeavors have been supported by several substantial research projects, collectively amounting to **15.5 crore in funding**, sponsored by entities such as the **Government of Tamil Nadu, DST, NBHM, and DAE-BRNS**. His pursuit of knowledge has transcended geographical boundaries, with collaborative research efforts taking him to countries including Italy, Hungary, Romania, Poland, France, and Germany.

His steadfast commitment to scientific inquiry is mirrored in his memberships in esteemed organizations such as the **Optical Society of India (OSI), the Indian SpectroPhysics Association, the Indian Laser Association, the Indian Association for Crystal Growth, and the Materials Research Society of India**. His stature as a scholar is underscored by his designation as a **Life Fellow Member**, and he has been honored with the **INSA-JRD/TATA Fellowship by the Government of India**.

As we acknowledge Professor Anbarasan's exceptional contributions to the realm of science, may we find inspiration in his dedication and fervor. **Department of Physics, Periyar University, Salem, in collaboration with the Indian SpectroPhysics Association, Chennai**, takes immense pride in bestowing upon **Professor P.M. Anbarasan** the prestigious **ISPA Dr. Life Time Achievement Award**, a recognition richly deserved for his unwavering commitment to the pursuit of knowledge and the advancement of science."

Given under the seal of Indian SpectroPhysics Association (ISPA) on 14th September 2023 at 3rd International Virtual Conference on Laser Applications on Science, Engineering and Research (LASER - 2023) in commemoration of Dr. S. Mohan organized by Department of Physics, Periyar University Salem in association with Indian SpectroPhysics Association, India.

Dr. V. Ra
HoD, Physics

Arumugam Gunasekaran
Dr. S. Gunasekaran
Founder-President, ISPA

Place: Chennai, India
Date : 14.09.2023

On behalf of Indian SpectroPhysics Association (ISPA), I have been received the "ISPA Dr. S. Gunasekaran Award". The Award bestowed during the inaugural session of the International Virtual Conference on Light Applications in Science and Engineering Research (LASER – 2021) organised by the ISPA in Association with Sophisticated Analytical Instrumentation Technique (SAIF), St. Peter's Institute of Higher Education and Research held on 14th September 2021 in Commemoration of Remembrance of Prof. Dr. S. Mohan.

CERTIFICATE

PROUDLY PRESENTED TO

Ponnusamy Munusamy Anbarasan

RSC-IITM Desktop Seminar on Environmental Sciences

Oct 11, 2022	*RSC Publishing Webinars*
Date of Completion	Organizer

ROYAL SOCIETY OF CHEMISTRY

NITI Aayog | AIM ATAL INNOVATION MISSION

Certificate of Appreciation

This certificate of appreciation is presented to

Prof. Dr. Ponnusamy Munusamy Anbarasan

for your contribution in Mega Tinkering Day on 12th August 2025. We thank you for your tremendous efforts to make the event successful.

Deepali Upadhyay
Program Lead
Atal Innovation Mission

Dr. K. YOGUVA, M.Sc., M.Phil., Ph.D.,
Principal Grade -I
N.K.R. Govt Arts College for women,
Namakkal

Dr. P. RAMU, M.Sc., M.Phil., Ph.D.,
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Government Arts College
Cherry Rd, Kamalanaickenpatti,
Salem- 7

Dr. K. M. PRABU, M.Sc., M.Phil., Ph.D.,
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Sri Vidhya Mandir Arts and Science College, SH10, Vignesh Nagar, Kovai Uthangarai - 635207

Dr. P. SAKTHIVEL, M.Sc., M.Phil., Ph.D.,
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Sankari Main Rd, P.M.P Nagar
Kondalampatti, Salem - 636015

Dr. D. SAKTHI, M.Sc., M.Phil., Ph.D.,
HOD of Physics & Principal
ERK Arts & Science College for Women Ennaiyangatti, Kokkarapatti(PO), Dharmapuri

Dr. M. PRAKASAM, M.Sc., M.Phil., B.Ed., Ph.D.,
Assistant Professor in Physics
Thiruvalluvar University
Government College, Tirupattur

Dr.C. MOHANA SUNDARAM, M.Sc M.Phil., B.Ed., Ph.D.,
B. T. Assistant (Science)
PUMS - Paraiyur
Nolambanpatty (P. O)
Idamar (Ta.), Salem (Dt.)

DR. A. PRIYADHARSAN, M.Sc, Ph.D.,
Assistant Professor in Physics
ERK Arts & Science College for Women Ennaiyangatti, Kokkarapatti(PO), Pappireddipatti(TK), Dharmapuri

Dr. A. ARUNKUMAR, M.Sc, M.Phil., B.Ed., Ph.D.,
Post Doctoral Fellow
[at: C/o Dr. C. Suresh, Senior Scientist,Scientistcsuresh@csir.res.in] CSIR-Central Electro Chemical Research Institute (CECRI), Karaikudi – 630003

DR. C. INDRA PRIYADHARSINI, M.Sc, M.Phil., Ph.D.,
Assistant Professor in Physics
Muthayammal College of Arts & Science (A unit of VELTECH Group)
Rasipuram – 637 408, Namakkal

Dr. S. SHANAVAS, M.Sc, Ph.D.,
Post Doctoral Fellow
Department of Chemistry
Khalifa University
P.O. Box 127788
Abu Dhabi, United Arab Emirates

AMRITA VISHWA VIDYAPEETHAM
AMRITAPURI CAMPUS

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Institution's Innovation Council Lecture series on

Systematically Understanding Paradox in Society through Innovative Scientific Approach

27 AUG 2024 | 03:00 P.M.

Prayer Song	:	
Welcome Address	:	**Ms. Sreejitha Raj** Research Scholar, Department of Mechanical Engineering Amrita School of Engineering
Introduction speech	:	**Dr. T. Ganesan** IIC-President
Presidential Address	:	**Dr. Jyothi S. N.** Associate Dean Amrita School of Engineering
Introduction about Guest speaker	:	**Ms. Shreya Baltha** Research Scholar, Department of Mechanical Engineering, Amrita School of Engineering
Key Note Address	:	**Dr. Ponnusamy Munusamy Anbarasan** Senior Professor-cum-Director (HAG) – Rtd. Head, Centre for New & Renewable Energy Studies (CNRES) Department of Physics, Periyar University, Salem – 636 011, Tamil Nadu, India
Vote of Thanks	:	**Ms. Shreya Baltha** Research Scholar, Department of Mechanical Engineering, Amrita School of Engineering

AMMACHI LABS

Any other relevant but brief information on academic standing.

Contributions to Teaching: Contributions in developing courses, academic programmes, innovative teaching methods, work leading to better teaching, research and management in the Centre & Department. Seminar classes conducted through Smart Class, Multimedia Power Point (Side Projector) and Intranet teaching in the Periyar University in addition to the normal black board teaching. Industrial visit arranged to impart their (students) knowledge. STEM experts for robotics, 3D printing, and drone design focused on integrating these technologies to teach Science, Technology, Engineering, and Mathematics

I hereby declare that all the information given in this profile is true to the best of my knowledge and belief.

Place: Salem - 16
Date: 15.09.2025 **(P. M. Anbarasan)**