



Biodata

Name : Dr. A. Prakasam

Designation/ Present position : Assistant Professor of Physics

Official Address for communication : PG & Research Department of Physics,
Thiruvalluvar Government Arts College,
Rasipuram,
Namakkal Dt, Pin - 637401,
Tamil Nadu, India.

Email I.D. : physicsprakasam@gmail.com

Mobile No. : +91 99445 01455

Qualification :

Degree	Subject	Institution	Year
Ph.D.	Physics	Periyar University	2013
M.Phil	Physics	Periyar University	2007
PG	Physics	Periyar University	2004
UG	Physics	Periyar University	2002

Discipline/Area of specialization : Solar cells, Molecular Quantum mechanics,
Computational Physics, Material Science.

Teaching Experience : 18 Years

Ph.D. Candidates guided/awarded : 7

Ph.D. Candidates guiding : 4

Editorial Activity/Journal Reviewer : Reviewer in
I. Journal of Molecular Structure
II. Inorganic Chemistry Communications
III. Computational and Theoretical
Chemistry
IV. Chemical Physics
V. Chemical Physics Impact

Academic And Professional Contributions : **Director – IQAC,** Thiruvalluvar
Government Arts College, Rasipuram.

Board of Studies Membership:

An active member of the Board of Studies in various higher educational institutions

- Member PG Board of Studies, Periyar University, Salem - 11, Tamil Nadu, India
- Member PG Board of Studies, Bharathiar University, Coimbatore - 641 046, Tamil Nadu, India.
- Member PG Board of Studies, Vivekanandha College of Arts and Sciences for Women (Autonomous), Tiruchengode - TK, Namakkal District, Tamil Nadu - 637 205.

Question Paper Setter:

Served as a question paper setter for numerous higher educational institutions

- Bharathiar University, Coimbatore - 641 046 Tamil Nadu, India.
- Sri Vidya Mandir Arts & Science College (Autonomous) Katteri - 636 902, Uthangarai, Krishnagiri District, Tamil Nadu
- Thiruvalluvar University Serkadu, Vellore - 632 115, Tamil Nadu, India.
- Nehru Memorial College, Puthanampatti, Tamil Nadu.

Fellowships And Memberships

- :
- Fellow Member of the Materials Research Society of India (MRSI).
 - Fellow Member of the International Association of Zoology Research (FIAZR).

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

- :
- International Journal of Entomology Research - Associate Editor
 - International Journal of Zoology Studies -

Associate Editor.

- Honorary Member in Referee Board:
Honorary Member of Online
International Interdisciplinary Research
Journal (Bi-monthly) with ISSN No.
2249-9598.
- Science and Technological Journal
(English & Tamil) - Reviewer

Number of Publications : 82
(International/National)

Citation Metrics : • h-index: **21**
• i10-index: **40**
• Total Citations: **1569**

Research Papers published : 90
(International/National)

1. Deepakvijay, K., & **Prakasam, A.** (2025). Design of novel benzidine derivatives via regioisomeric furan, oxazole, and isoxazole substitution: quantum study of charge transport. *Computational and Theoretical Chemistry*, 115561.
2. Sridevi, R., **Prakasam, A.**, Karthik, M., Anbarasan, P. M., & Deepakvijay, K. (2025). Synergistic g-C₃N₄/CoAl-LDH heterojunctions for superior visible-light-driven hydrogen evolution and wastewater treatment. *Journal of Materials Science: Materials in Electronics*, 36(27), 1770.
3. Viji, A., Vanasundari, K., Vijayakumar, R., & **Prakasam, A.** (2025). Effect of structural, electrical conductivity, magnetic, and electrochemical properties of La-doped zinc manganite. *Journal of Superconductivity and Novel Magnetism*, 38(2), 107.
4. Senguttuvan, N., Ravichandran, K., & **Prakasam, A.** (2025). Effects of Ce doping on structural, optical and photocatalytic activity of CuMn₂O₄ nanoparticles. *Journal of the Korean Physical Society*, 86(8), 769–779.
5. **Prakasam, A.**, Darji, P., Kumar, P. M., Yamiben, P., Vanshita, P., & Anitaben, P. (2024). Therapeutic benefits of fenugreek on breast milk production and weight gain among newborns.
6. Sumathi, M., **Prakasam, A.**, & Anbarasan, P. M. (2024). Fabrication of hexagonal disc shaped nanoparticles g-C₃N₄/NiO heterostructured nanocomposites for efficient visible light photocatalytic performance. *Journal of Cluster Science*, 35(7), 2601.
7. Vanasundari, K., Viji, A., & Vijayakumar, R. (2024). NiCr_{2-x}Gd_xO₄ ceramics' magnetic, structural and electrical conductivity as well as their activation energy properties. *Inorganic Chemistry Communications*.
8. Vanasundari, K., Mahalakshmi, G., & **Prakasam, A.** (2024). Impact of Mg²⁺ substitution on the band gap energy, Urbach energy, structure, and optical behavior of copper chromites nanoparticles. *Next Materials*, 4, 100196.

9. Sumathi, M., Rekha, P., Mohan, M., **Prakasam, A.** , Anbarasan, P. M., &Aroulmoji, V. (2024). Review on the recent applications of nanomaterials in energy, environment and health care. *International Journal of Advanced Science and Engineering*, 10(4), 3655–3671.
10. Deepakvijay, K., & **Prakasam, A.** (2024). Exploring the effects of mono-bromination on hole-electron transport and distribution in dibenzofuran and dibenzothiophene isomers: a first-principles study. *Journal of Molecular Modeling*.
11. Sridevi, R., **Prakasam, A.** , Anbarasan, P. M., Kumar, R., & Karthik, M. (2024). Facile construction of MoS₂ decorated CdS hybrid heterojunction with enhanced hydrogen generation performance. *Chemical Physics Impact*.
12. Senguttuvan, N., Ravichandran, K., & **Prakasam, A.**(2024). Exploring the effect of Ce doping on structural, magnetic solar cell and optical characteristics of nano ZnMn₂ O₄ . *Journal of Superconductivity and Novel Magnetism*.
13. Maria Therese, A., Jesurani, S., Samikannu, K., Chellemmal, K., & **Prakasam, A.** (2024). Investigation on the structure formation, morphology, electronic and magnetic properties of BaFe₁₋₂ O₁₋₉ nanopowders synthesized using L-sorbose. *Journal of the Indian Chemical Society*, 101.
14. Saravana Kumaran, T., **Prakasam, A.** , Venkatesh, G., Vennila, P., & Mary, Y. S. (2023). Design and synthesis of phenylacridine-based organic dyes and its applications in dye-sensitized solar cells. *Russian Journal of Physical Chemistry A*, 97(11), 2607–2623.
15. Kanagambal, M. I., **Prakasam, A.** ,& Rajkumar, P. V. (2023). Improved photovoltaic and high performance lithium-ion batteries based SnS/rGO hybrid nanocomposites electrodes. *Chemical Papers*.
16. Sathiyamoorthi, K. (2023). Green synthesis of cobalt oxide nanoparticles (Co₃ O₄ NPs) using *Bauhinia racemosa* leaves extract and its antioxidant, anti-diabetic, and antimicrobial activity. *Journal of Scientific Research*.
17. Rajeswari, G., Prabavathi, N., **Prakasam, A.** ,& Deepakvijay, K. (2023). An investigation of the correlation between the photovoltaic, magnetic and optical properties of CoCr₂ O₄ due to La³⁺ doping. *Chemical Physics Impact*, 6, 100220.
18. Sankudevan, P., Sakthivel, R. V., **Prakasam, A.** , Al-Enizi, A. M., & Ubaidullah, M. (2023). Enhancement of luminescence mechanisms in structural, morphological, and catalytic properties of undoped CuCr₂ O₄ and Mn-doped CuCr₂ O₄ . *Journal of Cluster Science*, 34(3), 1527–1534.
19. Deepakvijay, K., **Prakasam, A.** ,& Arivazhagan, R. (2023). Insights into the structural, electronic, quantum chemical properties and molecular docking studies on novel NAMPT inhibitor molecule. *Chemical Physics Impact*, 7, 100395.
20. Manikandan, R. (2023). Green synthesis, spectral characterization, microbial activities, and antioxidant activities of cobalt oxide nanoparticles using *Aerva lanata* leaves extract. *Pakistan Heart Journal*, 56(2), 1162–1174.
21. Arivazhagan, R., Sridevi, C., **Prakasam, A.** ,& Kumar, R. (2023). Spectroscopic and molecular docking studies of 2-chloro-6-methoxypyridine-4-carboxylic acid by quantum computational method. *Polycyclic Aromatic Compounds*, 43(6), 5404–5436.
22. Arivazhagan, R., Sridevi, C., &**Prakasam, A.** (2022). Investigations on a novel biologically active organic molecule of 5-chloro-1-(4-piperidyl)-2-benzimidazolinone. *Journal of Molecular Structure*, 1274, 134544.
23. Arivazhagan, R., Sridevi, C., &**Prakasam, A.** (2022). Quantum computational, spectroscopic and molecular docking studies of potent tuberculosis drug 2,6-dihydroxypyridine-4-carboxylic acid. *Journal of Molecular Structure*, 1250, 131895.

24. Raja, G., Nallathambi, A., **Prakasam, A.** , Gopinath, S., & Ragupathi, C. (2022). Effect of lattice strain on structure, morphology, electrical conductivity and magneto-optical/catalytic properties of Ni-doped Mn_3O_4 nanocrystallites. *Journal of Saudi Chemical Society*.
25. Rajeswari, G., Prabavathi, N., **Prakasam, A.** , Kumar, R., & Geetha, S. (2022). Effect of La doping on NiCr_2O_4 properties and catalytic applications toward decolorization of 4-nitrophenol. *ECS Journal of Solid State Science and Technology*, 11(2), 026001.
26. Azhagu Raj, R., Saravanakarthick, P., & Palavesam, A. (2022). Effect of solar radiation on freshwater fish *Puntius bimaculatus* (Bleeker). *International Journal of Zoological Investigations*, 8(2), 218–222.
27. Rajeswari, G., Prabavathi, N., Tamizhdurai, P., & **Prakasam, A.** (2022). Enhancement of the structure, solar cells and vibrational studies of undoped CuCr_2O_4 and La-doped CuCr_2O_4 semiconductor compounds. *Heliyon*, 8.
28. Krishnamoorthy, D., Nagoor Meeran, M., **Prakasam, A.** , & Thangaraju, D. (2022). Titanium dichalcogenide-decorated reduced graphene oxide nanocomposite for high-performance photovoltaic cell fabrication. *Journal of Materials Science: Materials in Electronics*, 33(3), 1280–1292.
29. Nallathambi, A., **Prakasam, A.** , Azhagu Raj, R., & Anbarasan, P. M. (2021). Effects on size, optical and antibacterial activity of pristine and Cr-doped NiO prepared by microwave-assisted method. *Materials Today: Proceedings*.
30. TamilSelvan, S., **Prakasam, A.** , Venkatesh, G., Kamal, C., & Mary, Y. S. (2021). Synthesis, spectral characterizations, molecular geometries and electronic properties of phenothiazine based organic dyes for DSSCs. *Zeitschrift für Physikalische Chemie*, 235(10), 1355–1380.
31. Kumaran, T. S., **Prakasam, A.** , Anbarasan, P. M., Vennila, P., & Venkatesh, G. (2021). New phenoxazine-based organic dyes with various acceptors for DSSCs. *Journal of Computational Biophysics and Chemistry*, 20(05), 465–476.
32. Padmanathan, S., & **Prakasam, A.** (2021). Incorporation of carbon dots on the ZnO nanosheets as metal–organic framework photoanodes. *Journal of Cluster Science*, 32(4), 795–804.
33. Kumaran, T. S., **Prakasam, A.** , Vennila, P., Banu, S. P., & Venkatesh, G. (2021). New carbazole-based organic dyes with various acceptors for DSSCs. *Asian Journal of Chemistry*, 33(1), 1541–1550.
34. **Prakasam, A.** , Anbarasan, P. M., Azhagu Raj, R., & Ragupathi, C. (2021). Morphologies, crystal structure and antibacterial properties of chromium substituted zinc oxide nanoparticles synthesized by microwave method. *Materials Today: Proceedings*.
35. Arivazhagan, R., & Sridevi, C. (2021). Exploring molecular structure, spectral features, electronic properties and molecular docking of 4-phenylthiosemicarbazide. *Journal of Molecular Structure*, 1232, 129956.
36. Krishnamoorthy, D., & **Prakasam, A.** (2021). Graphene hybridized with tungsten disulfide (WS_2) based heterojunctions photoanode materials for high performance DSSC device applications. *Journal of Cluster Science*, 32, 621–630.
37. Rajkumar, P. V., **Prakasam, A.** , Rajeshkumar, S., Gomathi, M., & Anbarasan, P. M. (2020). Green synthesis of silver nanoparticles using *Gymnemasylvestre* leaf extract and evaluation of its antibacterial activity. *South African Journal of Chemical Engineering*, 32(1), 1–4.

38. Ragavan, I., Vidya, C., Shanavas, S., Acevedo, R., & Anbarasan, P. M. (2020). Synthesis, spectroscopic characterization and molecular docking study of an ethyl-thiophen-oxoacetate molecule. *Chemical Physics*, 530, 110596.
39. Padmanathan, S., & **Prakasam, A.** (2020). Design and fabrication of hybrid carbon dots/titanium dioxide (CDs/TiO₂) photoanodes.
40. Padmanathan, S., & **Prakasam, A.** (2020). Design and fabrication of carbon dots decorated WO₃ nanosheets hybrid photoanodes for sunlight-driven DSSC applications. *Journal of Materials Science: Materials in Electronics*.
41. Krishnamoorthy, D., & **Prakasam, A.** (2020). Preparation of MoS₂/graphene nanocomposite-based photoanode for dye-sensitized solar cells (DSSCs). *Inorganic Chemistry Communications*, 118, 108016.
42. Krishnamoorthy, D., & **Prakasam, A.** (2020). Low-cost and novel preparation of porous NiS₂/graphene heterojunctions photoanodes for high-efficiency DSSCs. *Inorganic Chemistry Communications*, 119, 108063.
43. Nallathambi, A., & **Prakasam, A.** (2020). Structural, photoluminescence and magnetic properties of chromium (Cr) doped manganese oxide (Mn₃O₄) hexagonal particles. *Physica E: Low-dimensional Systems and Nanostructures*, 116.
44. Padmanathan, S., & **Prakasam, A.** (2020). Design and fabrication of hybrid carbon dots/titanium dioxide (CDs/TiO₂) photoelectrodes for highly efficient DSSCs. *Journal of Materials Science: Materials in Electronics*.
45. Sumathi, M., **Prakasam, A.**, & Anbarasan, P. M. (2020). Fabrication of ultrathin nanosheets of graphitic carbon nitride heterojunction with spherical shaped Bi₂O₃ nanoparticles. *Journal of Cluster Science*, 31(1), 277–286.
46. Indhumathy, M., & **Prakasam, A.** (2020). ZnS-reduced graphene oxide nanohybrid materials as photoanodes with improved photovoltaic performance. *Journal of Cluster Science*, 31, 257–264.
47. Indhumathy, M., & **Prakasam, A.** (2019). A one pot hydrothermal stimulated CdS-reduced graphene oxide (CdS/rGO) hybrid nanocomposite for high performance photovoltaic applications. *Journal of Materials Science: Materials in Electronics*, 20, 15444–15451.
48. Rajkumar, P. V., Gomathi, M., **Prakasam, A.** & Anbarasan, P. M. (2019). Green synthesis, characterization and antibacterial activity of silver nanoparticles using *Amorphophallus paeoniifolius* leaf extract. *Journal of Cluster Science*, 30(4), 995–1001.
49. Sumathi, M., **Prakasam, A.**, & Anbarasan, P. M. (2019). A facile microwave stimulated g-C₃N₄/α-Fe₂O₃ hybrid photocatalyst with superior photocatalytic activity and attractive cycling stability. *Journal of Materials Science: Materials in Electronics*, 30(12), 10985–10993.
50. Indhumathy, M., & **Prakasam, A.** (2019). Controllable synthesis of NiS/rGO hybrid composite: an excellent counter electrode for dye-sensitized solar cell. *Journal of Cluster Science*, 31, 91–98.
51. Nallathambi, A., **Prakasam, A.**, & Azhagu Raj, R. (2019). Effects of Cr doping on structural, morphological, optical, humidity sensing and catalytic properties of magnetic Co₃O₄. *Sensor Letters*, 17(5), 411–416.
52. Chandrasekaran, R., Gomathi, M., **Prakasam, A.**, & Rajkumar, P. V. (2019). Assessment of silver nanoparticle from *Cocos nucifera* (coconut) shell on dengue vector toxicity, detoxifying enzymatic activity and predatory response of aquatic organism. *Journal of Cluster Science*.

53. Sumathi, M., & **Prakasam, A.** (2019). Fabrication of hexagonal disc shaped nanoparticles g-C₃ N₄ /NiO heterostructured nanocomposites for efficient visible light photocatalytic performance. *Journal of Cluster Science*, 1–10.
54. Sumathi, M., & **Prakasam, A.** (2019). High capable visible light driven photocatalytic activity of WO₃ /g-C₃ N₄ heterostructure catalysts. *Journal of Materials Science: Materials in Electronics*, 30(4), 3294–3304.
55. Gomathi, M., **Prakasam, A.**, Rajkumar, P. V., Rajeshkumar, S., & Chandrasekaran, R. (2019). *Phyllanthus reticulatus* mediated synthesis and characterization of silver nanoparticles. *International Journal of Research in Pharmaceutical Sciences*, 10(4), 3099–3106.
56. Bastin, A. V., Ragavan, I., Anbarasan, P. M., **Prakasam, A.**, & Sundar, S. M. (2019). Efficient D- π -A type organic dyes having carbazole based functional groups as acceptor for DSSCs. *Young Scientist-Tomorrow's Science Begins Today*, 3(1).
57. Azhagu Raj, R., Sumathi, M., **Prakasam, A.**, Ming-bing, Z., & Ramakrishnan, M. (2018). Docking analysis of ligand 3-[1-hydroxy-[methylethyl] benzonitrile on human gastric cancer protein (HGCP) IBJ7.
58. Azhagu Raj, R., John Milton, M. C., & **Prakasam, A.** (2018). *In silico* molecular docking of a bioactive steroid compound with brain cancer protein (1QH4). *Sciencia Acta Xaveriana*, 9(1), 51–55.
59. Saravana Kumaran, T., Ragavan, I., Anbarasan, P. M., & **Prakasam, A.** (2018). Application of bromoanthracene based organic dyes as DSSCs – molecular modelling approach. *IJCRT*, 6(1), 903–915.
60. Azhagu Raj, R., John Milton, M. C., & **Prakasam, A.** (2018). Amphipods assemblage with the green alga *Chaetomorpha aerea* in Pulicat estuary, Tamilnadu, India. *International Journal of Creative Research Thoughts*, 6(1).
61. Azhagu Raj, R., Mariadass, A. R., Krishnamoorthy, D., **Prakasam, A.**, & Devarajan, P. A. (2018). Photoluminescence, photoconductivity, thermal, microhardness and dielectric properties of silver nitrate doped potassium zinc phosphate hexahydrate single crystal. *IJSRSET Eng Tech*, 4, 177.
62. Azhaguraj, R., Mariadass, A. R., Sumathi, M., **Prakasam, A.**, & Anand, P. (2018). Investigation on the growth and characterization of silver nitrate doped zinc potassium phosphate hexahydrate NLO single crystal.
63. Karthick, M., Maheshkumar, P., Krishnamoorthy, D., & **Prakasam, A.** (2018). Optimization of culture conditions for enhanced antibacterial activity by a fish gut bacterium *Bacillus* sp. BSA1. *International Journal of Innovative Science and Research Technology*, 3(8), 86–91.
64. Karthick, M., Muthumariammal, S., Krishnamoorthy, D., & **Prakasam, A.** (2018). Evaluation of antibacterial potential and phytochemical analysis of various organic extracts of green seaweed *Ulva lactuca*. *JETIR*, 5, 632–640.
65. Gomathi, M., Rajkumar, P. V., & **Prakasam, A.** (2018). Study of dislocation density of silver nanoparticles, green-synthesized using *Barleria cristata* leaf extract. *Results in Physics*, 858–864.
66. Azhagu Raj, R., Sathish, R., **Prakasam, A.**, & Sumathi, M. (2017). Gas chromatography mass spectrometry analysis of cuticular hydrocarbons in the ant *Tetraponerarufonigra* (Jerdon). *Sciencia Acta Xaveriana*, 8(2), 21–31.
67. Priyadharsini, C. I., Sumathi, M., **Prakasam, A.**, Anbarasan, P. M., & Sathiyapriya, R. (2017). Effect of Mg doping on structural and optical properties of SnO₂ nanoparticles by chemical co-precipitation method. *International Journal of Advanced Science and Engineering*, 3(4), 428–434.

68. Azhagu Raj, R., Gomathi, M., **Prakasam, A.** , Krishna Priya, & Narayanayyar, V. (2017). Preliminary phyto-chemical analysis and biological activity of *Hyptis suaveolens* (L.). *The Pharma Innovation Journal*, 6(7), 1032–1038.
69. Ragavan, I., **Prakasam, A.** ,& Anbarasan, P. M. (2017). Electronic structure, nonlinear optical properties and spectroscopic studies of 4-methyl-3-nitropyridine-1-carbonitrile using DFT. *International Journal of Advanced Science and Engineering*, 4(2), 554–565.
70. Azhagu Raj, R., Sathish, R., **Prakasam, A.** , Krishnamoorthy, D., & Balachandar, M. (2017). Diversity and distribution of ant species (Hymenoptera: Formicidae). *Journal of Entomology*.
71. Sakthi, D., Prakasam, M., **Prakasam, A.** , Sivakumar, S., & Anbarasan, P. M. (2017). A complete DFT, TD-DFT and non-linear optical property study on 6-amino-2-methylpyridine-3-carbonitrile. *Computational Chemistry*, 5, 129.
72. Padmanathan, S., Ragavan, I., & **Prakasam, A.** (2017). DFT and TD-DFT calculations of 2-aminopyrimidine-5-carbonitrile dye sensitizer for solar cells. *International Journal of Advanced Science and Engineering*, 3(3), 384–390.
73. Gomathi, M., Rajkumar, P. V., & **Prakasam, A.** (2017). Green synthesis of silver nanoparticles using *Datura stramonium* leaf extract. *Resource-Efficient Technologies*.
74. Azhagu Raj, R., Sathish, R., **Prakasam, A.** ,& Krishnamoorthy, D. (2017). Extraction and analysis of cuticular hydrocarbons in the weaver ant *Oecophylla smaragdina* (Fabricius). *International Journal of Fauna and Biological Studies*, 4(1), 102–107.
75. Sakthi, D., Prakasam, M., **Prakasam, A.** , Sivakumar, S., & Anbarasan, P. M. (2016). Geometrical, electronic structure, nonlinear optical and spectroscopic investigations of 2-amino-6-nitrobenzothiazole as sensitizer for DSSC. *International Journal of Advanced Science and Engineering*, 2(4), 168–176.
76. Sakthi, D., Prakasam, M., **Prakasam, A.** , Sivakumar, S., & Anbarasan, P. M. (2016). Theoretical investigations of 1,5-diaminoanthraquinone organic dye sensitizer for dye sensitizer solar cell. *Chemical Science Transactions*, 5(4), 1107–1113.
77. Azhagu Raj, R., Ganesh, J., **Prakasam, A.** ,& Krishnamoorthy, D. (2016). Fauna associated with the marine macro alga *Chaetomorpha aerea* in Pulicat estuary, Tamil Nadu, India. *International Journal of Fisheries and Aquatic Studies*, 5(1), 319–326.
78. Azhagu Raj, R., Sumathi, S. R., Siva Subramanian, S., Lenin, E. A., & Ragupathi, C. (2016). Prediction of activity spectra for analgesics drugs. *Journal of Biotechnology and Biosafety*, 4(2), 359–377.
79. Azhagu Raj, R., Mala, K., & **Prakasam, A.** (2015). Phytochemical analysis of marine macroalgae *Caulerpa racemosa* (J. Agardh) from Tirunelveli District, Tamilnadu, India. *Journal of Global Biosciences*, 4(8), 3055–3067.
80. **Prakasam, A.** (2015). Molecular modeling of 3-thiophenecarbonitrile dye sensitizer for solar cells using quantum chemical calculations. *Elixir Chemical Physics Letters*, 83, 33298–33304.
81. Azhagu Raj, R., **Prakasam, A.** Vana Sundari, G., & Mala, K. (2015). Preliminary physico-chemical properties of marine macroalga *Sargassum tenerrimum* (J. Agardh). *International Research Journal of Chemistry*, 11, 27–43.
82. **Prakasam, A.** & Anbarasan, P. M. (2014). Molecular modeling of 1,4-phenylenediacetonitrile dye sensitizer for solar cells using quantum chemical calculations. *Journal of Computational Chemistry*, 76, 28245–28251.
83. **Prakasam, A.** ,& Anbarasan, P. M. (2013). Molecular modeling of 2-ethoxybenzonitrile dye sensitizer for solar cells using quantum chemical calculations. *International Journal of Pharmaceutical and Chemical Sciences*, 2(1).

84. Geetha, M., Suguna, K., & **Prakasam, A.** (2013). Growth and characterization of magnesium in TiO₂ nanoparticles for dye sensitized solar cells. *Nano Science - Nanotechnology: An Indian Journal*.
85. **Prakasam, A.** (2013). Quantum chemical calculation of 4-amino-3-nitrobenzonitrile for dye sensitized solar cells applications. *Global Research Analysis*, 2(1), 189–193.
86. Priyadharsini, C. I., **Prakasam, A.** , & Anbarasan, P. M. (2013). Enhanced photoelectrical performance of DSSC by Co-doped SnO₂ nanoparticles. *International Letters of Chemistry, Physics and Astronomy*, 12.
87. **Prakasam, A.** , Sakthi, D., & Anbarasan, P. M. (2013). DFT studies on the electronic structures of 4-methoxybenzonitrile dye for dye-sensitized solar cell. *International Letters of Chemistry, Physics and Astronomy*, 7.
88. **Prakasam, A.** (2012). Quantum chemistry calculations of 2-(trifluoromethoxy)phenylacetonitrile dye sensitizer for solar cells. *International Journal of Chemical Science and Technology*, 2(3), 236–243.
89. **Prakasam, A** & Anbarasan, P. M. (2012). DFT and TD-DFT study on structure and optical properties of 2-ethylbenzonitrile dye sensitizer for solar cell applications. *International Journal of Pharmaceutical, Chemical and Biological Sciences*.
90. Anbarasan, P. M., Vasudevan, K., Senthil Kumar, P., & **Prakasam, A.** (2012). Structural and spectral properties of 4-phenoxyphthalonitrile dye sensitizer for solar cell applications. *Bulletin of Materials Science*, 35(2), 265–275.

Publications in Refereed Conference/Symposium/Seminar Proceedings
& Publications in Non-Refereed Conference/Symposium/Seminar Proceedings:

1. K. Deepakvijay ,**A. Prakasam***, “First Principles Study of Mono-Brominated Dibenzofuran Isomers: Evaluating their Suitability for Enhanced ChargeTransport in Organic Electronic Devices”P. M. Anbarasan International Conference on biomaterials for advanced biological applications (BABA-2024)Organised by Department of Chemistry, Periyar University, Salem.
2. K. Deepakvijay, **A. Prakasam***, P. M. Anbarasan “Quantum chemical calculation, structural properties, topological investigations and molecular docking studies on novel NAMPT inhibitor molecule” presented in 3rd International Conference on Light Applications in Science and Engineering Research (LASER-2023)”Organised by Department of Physics, Periyar University, Salem.
3. K. Deepakvijay ,**A. Prakasam**, P. M. Anbarasan “Green synthesis, characterization and antibacterial activities of zinc ferrite nanoparticles synthesized using Curcuma caesia extractPresented in theNational Conference on Recent Trends in Green Energy

Technologies(NCRTGET 2022)Organised byDepartment of Green Energy TechnologyMadanjeet School of Green Energy Technologies Pondicherry University”.

4. M. Gomathi and A. Prakasam Effect of Size on Antibacterial Activities of Green Synthesized Silver Nano Particles Using Morus Leaf Extract, Presented in the “International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018)” - 2nd & 3rd February 2018 Organised by DEPARTMENT OF CHEMISTRY, (DST-FIST & UGC-SAP Sponsored) ANNAMALAI UNIVERSITY, Annamalai Nagar – 608002, Tamil Nadu, India .
5. I. Ragavan , S. Padmanathan , M. Sumathi A. Prakasam and P.M. Anbarasan, Molecular structure, vibrational spectra, natural bond analysis and theoretical approaches of 8-(2- chloro-10H-phenothiazin-7-ylthio)-5, 9-dihydro-2-mercapto-4H-purin , Presented in the “International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018)” - 2nd & 3rd February 2018 Organised by DEPARTMENT OF CHEMISTRY, (DST-FIST & UGC-SAP Sponsored) ANNAMALAI UNIVERSITY, Annamalai Nagar – 608002, Tamil Nadu, India .
6. C. Indira Priyadharsini , A. Prakasam , P. M. Anbarasan Microwave Assisted Synthesis Method of Perovskite Type Fe doped Sr TiO₃ solar cells , Presented in the “International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018)” - **2nd& 3rd February 2018** Organised by DEPARTMENT OF CHEMISTRY,(DST-FIST & UGC-SAP Sponsored) ANNAMALAI UNIVERSITY,Annamalai Nagar – 608002, Tamil Nadu, India .
7. A. Nallathambi1, , A. Prakasam,* and P. M. Anbarasan , Density functional theory study on the electronic structure of Stilbene based Organic Sensitizers for DSSC Presented in the “International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018)” - 2nd & 3rd February 2018 Organised by DEPARTMENT OF CHEMISTRY, (DST-FIST & UGC-SAP Sponsored) ANNAMALAI UNIVERSITY, Annamalai Nagar – 608002, Tamil Nadu, India .
8. D. Krishnamoorthy, I. Ragavan, P.M. Anbarasan and **A. Prakasam** Nonlinear Optical and Electronic properties of the π Linker in Donor– π –Acceptor Organic Dyes for High-Performance Sensitized Solar Cells Presented in the “International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018)” - **2nd& 3rd February 2018** Organised by DEPARTMENT OF

CHEMISTRY, (DST-FIST & UGC-SAP Sponsored) ANNAMALAI UNIVERSITY, Annamalai Nagar – 608002, Tamil Nadu, India .

9. Azhagu Raj. R, T. Saravanakumaran D. Krishnamoorthy M. Sumathi and A. Prakasam, Docking analysis of ligand 3-[1-Hydroxy-[methylethyl] benzonitrile on Human Gastric Cancer Protein (HGCP) IBJ7, Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore –641 021, Tamilnadu on 14th February, 2018.
10. Azhagu Raj. R, M. Indhumathi., D. Krishnamoorthy, M. Gomathi ,M. Sumathi and A. Prakasam Docking analysis of Breast Cancer Protein (BCP) IJNX with bioactive ligand Benzoic acid, 2,4,6-trimethyl- (ligand- C₁₀H₁₂O₂) , Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore – 641 021, Tamilnadu on 14th February, 2018.
11. Azhagu Raj. R, **M. Gomathi** , M. Indhumathi , M. Sumathi and A. Prakasam, "Docking studies of Stearic acid Chloride on Human Skin Cancer Protein (HSCP) 2VCJ" Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore –641 021, Tamilnadu on 14th February, 2018
12. Azhagu Raj. R, D. Krishnamoorthy, A. Prakasam, M. Sumathi and A. Nallathambi *In silico* molecular docking of bioactive compound Pregnan-20-one, 5,6-epoxy-3,17, dihydroxy-16 methyl-[3a,5a,6a,16a] with brain cancer protein (1QH4) : a promising molecular target, Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore –641 021, Tamilnadu on 14th February, 2018.
13. Azhagu Raj. R , M. Sumathi., S. Padmanathan, D. Krishnamoorthy and A. Prakasam *In silico* docking and interaction analysis of bioactive marine macroalgal compound Pregnane , 3,11,20-triol, [3a,11a,20a] against the human lung cancer protein 2ITO, Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore –641 021, Tamilnadu on 14th February, 2018.

14. Azhagu Raj. R, P. Saravanakarthick, **R.Arivazhagan**, A. Prakasam, M. SumathiS.Padmanathan and M. Balachandar, "EFFECT OF SOLAR RADIATION ON BIOCHEMICAL AND HISTOPATHOLOGICAL CHANGES IN PUNTUS BIMACULATUS (BLEEKER) (CYPRINIFORMES: CYPRINIDAE) Presented in the " National Symposium on Advances in Cancer Research (NSACR - 2018), Organised by Department of Microbiology, Karpagam Academy of Higher Education Coimbatore –641 021, Tamilnadu on 14th February, 2018.
15. M. Inthumathy, D. Krishnamoorthy, P.M. Anbarasan, and **A. Prakasam**, "The role of π – Linkers in Tuning the Optoelectronic Properties of Carbazole Derivatives for Dye Sensitized Solar Cell : A DFT/TDDFT Study" National conference on Recent Trends in Advanced Material Science(NCRTAMS – 2018), Organised by Department of Physics, Selvamm Arts & Science College(Autonomous) –Namakkal- 637003, Tamilnadu on 5th February, 2018.
16. P. M. Anbarasan, P. Sakthivel, & A. Prakasam, "Study of geometrical, Electronic Structure, Spectral and NLO Properties of 6-Chloro-2-Nitrobenzonitrile Dye For Efficient Organic Solar Cells" Proceedings of the National Conference on Advanced Materials (NCAM-2014), 18-19, July, 2014 organised by PG and Research Department of Physics, Sri VidyaMandir Arts and Science College, Katteri, Uthangarai, Krishnagiri (District), Tamilnadu, India – 636 902, in Collaboration with Indian Spectrophysics Association (ISPA), Chennai - 600 030, CP-151, Pg.180.
17. P. M. Anbarasan, P. Sakthivel, D. Sakthi & **A. Prakasam**, "Electronic Structure and Spectral Properties of 4-Methyl-3-Nitrobenzonitrile Dye for Efficient Organic Solar Cells" Proceedings of the National Conference on Advanced Materials (NCAM2014), 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, CP-151, Pg.180.
18. C. Indira Priyadharsini, **A. Prakasam** and P. M. Anbarasan, "Structural, Functional and Optical Properties of Mg Doped SnO₂ by Co-Precipitation Method" Seminar on Materials for Advanced Technology (SMAT-2014) Organized by Department of Physics, Periyar University, Salem – 636011 on 21.2.2014, p.18, SMAT-24.
19. C. Indira Priyadharsini, **A. Prakasam**, L. Arivuselvam and P. M. Anbarasan, "Enhanced Photoelectrical Performance Of DSSC by Co-Doped SnO₂ Nanoparticles" Presented in the National Conference on Recent Trends in Materials Science organized

- by the Department of Physics, Vivekanandha college of Arts and Sciences for women, Elayampalayam, Tiruchengode, Namakkal on February 28th, 2013.
20. **A. Prakasam** and P. M. Anbarasan, “Quantum Chemistry Calculations of 2-amino-5-nitrobenzonitrile for Nano-dye sensitizer solar cells”, in the National Conference on Advanced Nanomaterials(ANM-2012) organized by Centre for Nanoscience and Nanotechnology, Periyar University, Salem during 6-7, February, 2012.
 21. G.Meenakshi, M.Vijay Alexander, M.Rigana Begum and **A. Prakasam**, “Theoretical Evaluation of Ultrasonic Parameters using Binary and Ternary Liquids Mixtures”, Eighteenth National Symposium on Ultrasonics(NSU-XVIII) DEC. 21-23, 2009.
 22. **Prakasam**, P. M. Anbarasan, G. Meenakshi “Growth and characterization of an organic non-linear optical single crystal-Methyl para hydroxyl benzoate” in State level seminar on recent Advances in spectroscopy Organised by Department of Physics KandaswamiKandar’s college Namakkal (D.T), Tamilnadu during January, 23-24, 2009.
 23. P. M. Anbarasan, S. Manimegalai, M. Geetha, P. Senthilkumar and **A. Prakasam**, “A Theoretical Comparative Study on Photo Energy Conversion Efficiency of Metal Free Organic Dye Sensitized Solid State Solar Cells”, Recent Advances in Metallo-organic Chemistry(RAMC-2008), Organised by Department of Chemistry, Periyar University, Salem, Tamilnadu, during October, 16-17, 2008.
 24. **A. Prakasam**, P. M. Anbarasan, G. Meenakshi “Spectral Analysis of an organic non-linear optical single crystal-Methyl para hydroxyl benzoate” in International Conference on Waves and Material Science Organised by Department of Physics St.Joseph’s College of Arts and Science (Autonomous) Cuddalore (D.T), Tamilnadu during August, 23rd, 2010.
 25. I. Ragavan, M. S. Karthick, **A. Prakasam**, P. M. Anbarasan and M. Prakasam, “Quantum Chemistry Calculations Of 2-Aminopyrimidine-5-Carbonitrile Dye Sensitizer For Solar Cells”National conference on Energy Environment and Ethics (E³-2016), Organised by Department of Energy Studies, Periyar University Salem-11.Tamilnadu during 28-29th march 2016.
 26. M. Arjun Kumar, Arul kumar, **A. Prakasam**, P.M. Anbarasan and M. Prakasam,“Molecular Structure Of 4-(1-3-Benzothiazol-2-Yl) Phthalonitril Dye Sensitizer For Solar Cells Applications Via Density Functional Theory”National conference on Energy Environment and Ethics (E³-2016),Organised by Department

of Energy Studies, Periyar University Salem-11,Tamilnadu during 28-29th march 2016.

27. I. Ragavana, A. Arunkumar, S. Padmanathan,,**A. Prakasam**, P.M. Anbarasan
“Molecular structure, vibrational spectra, first hyperpolarizability and HOMO, LUMO studies Trans-4-Hydroxystilbene by Quantum Chemical Calculations”International conference on Biomolecules and their prospects (Biomolecules-2016), Organised by Department of Microbiology And Biotechnology, Selvam Arts and Science College (Autonomous) Namakkal-637003 Tamilnadu during 8thjuly 2016.
28. I. Ragavan, M. Arjunkumar, **A. Prakasam** and P.M. Anbarasan,”Quantum Chemical Studies On Structural, Vibrational,Mpa, Npa And NLO Of P-Ethoxy Benzonitrile”National Conference on Chemistry of Heterogeneous Emerging Materials, organised by Department of Chemistry E.R.K Arts and Science College Erummiyapatti,Dharmapuri-636905 Tamilnadu during 19thAugust 2016.
29. M. Prakasam, M. Arjunkumar, **A. Prakasam** and P.M. Anbarasan,4-(3-(Dimethylamino) Styryl) Benzoic Acid As Sensitizer For Dsscs :QuantumchemicalCalculation”,National Conference On Frontier Areas In Applied Physics (NCFAAP-2016),organised byEngineering Physics Faculty Of Engineering And Technology, Annamalai UniversityAnnamalainagar-608 002 Tamil Nadu during 27th April 2016.
30. I. Ragavan, C. Arunkumar, **A. Prakasam** and P.M. Anbarasan, “Vibrational Spectroscopic (FTIR And FT Raman) Studies, First Order Hyperpolarizabilities And Homo, Lumo Analysis Of 4-Isopropyl Benzene using Ab Initio Hf And DftMethods”,National Conference On Frontier Areas In Applied Physics (NCFAAP-2016),organised byEngineering Physics Faculty Of Engineering And Technology, Annamalai UniversityAnnamalainagar-608 002 Tamil Nadu during 27th April 2016.
31. I. Ragavan, **A. Prakasam** and P.M. Anbarasan “DFT and TD-DFT study on organic dye sensitizers 4, 4'-Dihydroxy-azobenzene for Solar cells”Organised by Department of Physics, Thiruvalluvar Government Arts College, Rasipuram, during 25th January 2017.
32. S. Padmanathan, M. Arjunkumar, D. Krishnamoorthy and **A. Prakasam**,
“Investigation of Molecular structure, Band gap energy and Thermodynamic properties of organic dye based on Carbonitrile group using DFT and HF

calculation” Organised by Department of Physics , , Thiruvalluvar Government Arts College, Rasipuram, during 25th January 2017.

33. T. Saravanakumaran, M. Prakasam, A. Prakasam, and P. M. Anbarasan, “Study of chemical reactivity in theoretical parameters of efficiency in novel Carbazole derivatives for dyesensitized solar cells using DFT ” Presented in the National Conference on computational and experimental physics of Functional Materials(NCCEPFM-16) organized by the Department of Physics, K.S.R college of Arts and Sciences for women, Tiruchengode, Namakkal on 16-17 December, 2016.
34. T. Saravanakumaran, M. Prakasam, A. Prakasam, and P. M. Anbarasan, “Study of chemical reactivity in theoretical parameters of efficiency in novel Carbazole derivatives for dyesensitized solar cells using DFT ” Presented in the National Conference on computational and experimental physics of Functional Materials(NCCEPFM-16) organized by the Department of Physics, K.S.R college of Arts and Sciences for women, Tiruchengode, Namakkal on 16-17 December, 2016.
35. I. Ragavan, M. Sumathi, A. Prakasam and P.M.Anbarasan, “Improvement of the efficiency of Thiophene based Organic dye Sensitizer Using Density Functional Theory(DFT) and Time-Dependent DFT Calculation” Presented in the National Conference on computational and experimental physics of Functional Materials(NCCEPFM-16) organized by the Department of Physics, K.S.R college of Arts and Sciences for women, Tiruchengode, Namakkal on 16-17 December, 2016.
36. D. Krishnamoorthy, A. Prakasam and P. M. Anbarasan, “Optical and Photovoltaic Properties of the n-Linker in Donor- π -Acceptor Organic Dyes for High- Performance Sensitized Solar Cells” Presented in the National Conference on Advanced Materials(NCAM - 2016) organized by the Department of Physics, St.Joseph’s College(Autonomous), Tiruchirappalli on 7th October, 2016.
37. Participated in Intellectual property Rights Seminar on Identifying Intellectual Property components at the Early stage of Research Organized by IQAC TGAC on 22.07.2022.
38. Participated in International Conference Entitled International Virtual Conference on Materials Science and Tech (ICMAS - 2022) Organized by Department of Physics Kandaswami Kandars College Velur, Namakkal in Collaboration with Indian SpectroPhysics Association (ISPA) between 15 and 16 March 2022 through online Platform

39. Participated and Completed General Awareness Quiz For Covid - 19 Organized by Department of Corporate Secretaryship, Salem Sowdeswari College Salem on 22/4/2020
40. Participated in the National Webinar on ABC of Personality Development for Social Engineers Organized by Stella Matutina College of Education and Nazareth College of Education for Women on 24/5/2025
41. International Webinar on Beat Plastic Pollution Global efforts for Sustainable future organized by Department of Zoology, Paliwal PG College, Shikohabad Firozibad UP India on 5th June 2025.
42. **Attended** XXXIII ACADEMIC AIFUCTO CONFERENCE on ACCESS TO QUALITY EDUCATION IN INDIA CHALLENGES & OPPORTUNITIES (with special reference to NEP-2020) from 1st & 2nd March, 2025 Saturday & Sunday at Punjab Agricultural University (PAU) Ludhiana.
43. **Attended** XXXIIV ACADEMIC Statutory AIFUCTO CONFERENCE 2026 on towards democratic Scientific, inclusive, public Funded Higher education in India from 21st to 23rd February 2026 The American College Madurai.

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

Ph.D.s Awarded under Dr. A. Prakasam's Direct Supervision

S. No.	Name of the student	Year of award	Title of the Thesis
1	M.SUMATHI	2019	A Facile And One Step Microwave Assisted Carbon Nitride (G-C ₃ N ₄)/ Metal Oxide Nanocomposites

			Based Hybrid Photocatalyst And Its Structural, Optical And Photocatalytic Properties
2	M.GOMATHI	2020	Green Synthesis, Characterization And Antibacterial Activity Of Herbal Plants Mediated Silver Nanoparticles Against Staphylococcus Aureus And Scherichia Coli
3	M.INDHUMATHI	2020	Synthesis And Characterization Of Metal Sulfides/Rgo (Reduced Graphene Oxide) Nanocomposites And Its Photovoltaic Efficiency
4	A. NALLATHAMBI	2021	Enhancement Of The Performance In Structural, Morphological, Optical, Magnetic And Antibacterial Studies Of Chromium Doped Metal Oxide (Mn ₃ O ₄ , Co ₃ O ₄ , Fe ₃ O ₄ , And Nio) Nanoparticles Prepared By A Facile Microwave Combustion Method
5	S. PADMANATHAN	2021	Light Harvesting Enhancement Of Transition Metal Oxides/Carbon Dots Based Dye Sensitized Solar Cells (Dsscs) With High Efficiency And Stability
6	D. KRISHNAMOORTHY	2021	Design And Fabrication Of Transition Metal Dichalcogenides/Graphene Based Hybrid Photoanodes For High Efficient Dye Sensitized Solar Cells (Dsscs)
7.	Arivazhagan, R	2022	Spectroscopic And Molecular Docking Studies Of Some Biological Active Organic Molecules Via

			Quantum Chemical And Experimental Methods
--	--	--	--

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

S.No	Name & Reg-No	Year of Completion	Title	University
1	P. Sasikala	2014-2015	Photoelectrical Performance of DSSC by Co-Doped SnO ₂ Nanoparticles	Periyar University
2	M. Vidhya	2014-2015	Betel, Datura, Stramonium, Capsicum Annum Dyes as Natural Sensitizers for DSSC Applications	Periyar University
3	KAVITHA	2014-2015	Experimental Study of Magnesium doped Tin Oxide Nano Particles	Periyar University
4	I.Ragavan 15CAQ1102	2015-16	Experimental And Theoretical Vibrational Spectral (FT-IR and FT-Raman And NMR) Studies And NBO, NLO Analysis Of 3c3'm In Anticancer Drug Application	Periyar University
5	N.Priyadharshini 15CAQ1088	2015-16	Synthesis And Characterization Of Cu Doped SnO ₂ Nanoparticle	Periyar University
6	M.S.Karthick 15CAQ1097	2015-16	Synthesis and Characterization of SrTiO ₃ and La DOPED SrTiO ₃ Using Hythrothermal Method	Periyar University
7	VASUKI D 16CAQ1106	2016-17	Synthesis and performance of ethyl 2-(5-9H_carbazole) thiophene_2_GLY oxa acetate metal free dye for Dye Sensitized Solar	Periyar University

			Cell Applications	
8	POOVIZHILAKSHMI N 16CAQ1095	2016-17	A combined investigation of vibrational properties and excited state and Intramolecular charge transfer of 2, 8-dimercapto-6-hydroxypurine	Periyar University
9	17CAQ1096 S. NIRMALA	2017-2018	EXPERIMENTAL AND THEORETICAL SPECTRAL (FT-IR AND FT-RAMAN NMR) STUDIES NBO AND UV – VIS ANALYSIS OF 2,6 – DICHLORO 0 9H – PURINE – 8 – THIOL: USING DENSITY FUNCTIONAL THEORY	Periyar University
10	K. AMBIGA 17CAQ1085	2017-2018	THEORETICAL STUDIES, MOLECULAR DOCKING AND VIBRATIONAL SPECTROSCOPIC CHARACTERIZATION OF ETHYL 2- (4 -(5,9 - DIHYDROXY - 6 - HYDROXY - 2 - MERCAPTO -4H - PURINE8 - YLTIO) THIOPHENE - 2 -YL) -2- OXOACETATE	Periyar University
11	P. SELVARANI 19CAQ1037	2019-2020	HUMIDITY SENSORS PROPERTIES OF ZINC ALUMINATE NANOPARTICLES PREPARED BY SOLUTION BASED CONVENTIONAL	Periyar University

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

- 1. Dr. S. Natarajan, FNA, FASc., FNASc, FRSC.** Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore National Conference On Recent Trends In Materials Science ” organized by Thiruvalluvar Government Arts college, Rasipuram, Tamilnadu, during 25th January, 2017.
- 2. Dr. P.M. Anbarasan,** Professor, Department of Physics, Periyar University, Salem. National Conference on Recent Trends In Materials Science” organized by Thiruvalluvar Government Arts college, Rasipuram, Tamilnadu, during 25th January, 2017.
- 3. Dr. R. Arun Prasath** Centre for Green Energy Technology Pondicherry University, Puducherry - 605 014. A Two Day National Conference on “Emerging Materials And Nanotechnology” (NCEMN – 2020) 28th & 29th February 2020.
- 4. Dr. K. Ramesh,** Principal Research Scientist, Indian Institute of Science ,Bangalore - 560012. A Two Day National Conference on “Emerging Materials And Nanotechnology” (NCEMN – 2020) 28th & 29th February 2020.
- 5. Dr. L. kavitha** Professor & Head, Central University of Tamilnadu, Thiruvavur-610 005 A Two Day National Conference on “Emerging Materials And Nanotechnology” (NCEMN – 2020) 28th & 29th February 2020.
- 6. Dr. S. Gunasekaran** (Former Registrar, Periyar University, Salem) Dean, Research & Development St. Peter’s Institute of Higher Education and Research, Avadi, Chennai – 600 054. A Two Day National Conference on “Emerging Materials And Nanotechnology” (NCEMN – 2020) 28th & 29th February 2020.

SCIENCE LECTURES DELIVERED

1. Delivered Guest Lecture in Photovoltaic Science at Sakthi Kailash College For Women Nangavalli, on September 2016.
2. Delivered Guest Lecture in Energy and its Applications at Sakthi Kailash College for Women Attur, on February 2017.
3. Delivered Guest Lecturer in Energy and its Applications at Salem Sowdeswari College College, Salem on February 2018.

Orientation/Refresher Courses/FDP

1.	Orientation Programme Academic Staff College Pondicherry University Pondicherry	17.05.2017 – 13.06.2017 (28 DAYS)	Orientation Course
2.	NSS Empanelled Training Institution, Madras School Of Social Work, Chennai	31.10.2011-5.11.2011 (6 DAYS)	Orientation Course

3.	(Summer Refresher Course on Sciences (Physics, Chemistry, Biology and Biotechnology) Academic Staff College Pondicherry University Pondicherry	04.07.2018 - 24.07.2018 (21 DAYS)	Refresher Course
4.	UGC- Sponsored Online Refresher Course in Nano Science (Interdisciplinary), UGC-Human Resource Development Centre, Bharathidasan University, on Google Meet (https://meet.google.com/wna-hwxc-uuw)	25.11.2020 to 08.12.2020 (14 Days)	Refresher Course
5.	Participated in the Six days Faculty Development Programme on “Recent Developments in Materials Science - 21” jointly organized by the Departments of Physics and Chemistry, Sree Saraswathi Thyagaraja College , Pollachi , Coimbatore	16. 06.2021 to 22.06. 2021.	Faculty Development Programme
6.	19 th Refresher course in Physical Sciences and Nanosciences UGC-Human Resource Development Centre, Jawaharlal Nehru University, New Delhi from	10 th to 22 nd January 2022	Refresher Course
7.	Six Day online International FDP in next generation Research on Energy Materials Organized by Department of Physics and Chemistry vel tech Multi Tech Dr Rangarajan, Dr. Sakunthala Engg. College Avadi Chennai	04.07.2025 to 09.08.2025	FDP
8.	Seven Day International FDP in Frontiers in Physics from Fundamental to Emerging Technologies Organized by Department of Physics Academy of Maritime Education and Training (AMET) Deemed to be University Chennai	12.05.2025 to 18.05.2025	FDP
9	FDP on Digital Marketing	10.06.2026 to	FDP

	conducted by Infosys BPM Ltd at Mangalore	12.06.2026	
10	AI and Digital Skills faculty training through the Tamilnadu Skill Development Corporation Naan Mudhalvan Program held at Periyar university.	5/01/2026 to 10/01/2026	FDP
11	Foundations of Digital Marketing faculty training through the Tamilnadu Skill Development Corporation Naan Mudhalvan Program held at Periyar university	16/06/2025 to 21/06/2025	FDP
12	Salesforce faculty training through the Tamilnadu Skill Development Corporation Naan Mudhalvan Program held at Periyar university	03/05/2023 to 08/05/2023	FDP

Details of Various Workshops Attended: Names of Institutions, Titles Etc.

S. No.	Organization	Period From	To	Title of workshop
1	Periyar University, Salem	08-03-2018	08- 03-2018	Two days National Level Workshop on Career and Research Opportunities in Sustainable Energy Sectors
2	Federation of Science Clubs of Tamilnadu, Chennai	26-7-2010	27-7-2010	Workshop on Nuclear Power Programme

3	PGP college of Arts and Sciences, Namakkal	7-1-2005	8-1-2005	Workshop on Recent trends in Theoretical Physics
4	Periyar University, Salem	29-8-2005	30-8-2005	Workshop on Recent Trends in Physical Sciences
5	Periyar University, Salem	31-3-2008	31-3-2008	One Day Workshop on Recent Development in Nanomaterials Research
6	KandaswamiKandar's College, Velur	13.08.2007	13.08.2007	One Day Workshop on Modern Strategies of Classroom Instruction.
7	Annamalai University	5-3-2010	5-3-2010	National Workshop on Scanning Electron Microscope.
8	Anna University, Chennai	23-2-2009	27-2-2009	Advanced Level International Workshop on Nanoscience and Technology.
9	Mahendra Engineering College, Mallasamudram	12-8-2011	12-8-2011	Recent Developments in Advanced Materials & its Applications.
10	Amrita Viswa Vidyapeetham University	17-02-2010	17-02-2010	Workshop on Virtual Labs in Physical & Chemical Sciences
11	Sinetec Automation, Coimbatore	24-10-2013	24-10-2013	One Day Hands on Technicalseminar from Nanovolts to Gigahertz
12	National Testing Service-India, CIIL Mysore	08-09-2009	10-09-2009	Training cum workshop on item writing
13	Novotel Chennai	28-02-2016	03-03-2016	Introduction to Gaussian Theory and Practice

Examination:

CHAIRMAN PG Physics Central Valuation Board, Periyar University Salem.

Acted as Observer for conducting NEET (UG) Exam at Government Girls Higher Secondary School Namakkal on 4th May 2025.

Acted as University Representative for Conduct of **B.Sc B.Ed/B.A B.Ed** degree Exam October 2023 Tamilnadu Teacher Education University 5.10.2023 to 09.10.2023 & 16.10.2023 at Gnanamani Integrated College of Education AK Samuthiram Pachal Namakkal dt.

Public contributions:

A. Social Activities:

1. Industrial visit to Salem Steel Plant on 13.2.2013 along with M.Sc., degree students.
2. Acted as Presiding Officer in Conducting General Elections to TN Legislative Assembly 2026.

Extra curriculum

NSS: Special Camping Programme (19.11.1999- 28.11.1999)

Participating in Sabirimala service, 29.11.2001- 12.12.2001.

NCC: Annual Training Camp Tirupur (23.12.2001- 03.01.2002)

YOGA: Completed Master Course in Vethathairi Maharishi Yoga at Aliyar.

POSITION HELD: NSS Programme Officer in Vivekanandha College of Arts & Sciences for Women(Autonomous), Tiruchengode from 09.09.2011 to 26.12.2013.

NATIONAL TESTING SERVICE TRAINING: Training cum workshop on item writing conducted by NTS- India at central institute of Indian Languages from 8-9-9 to 10.09.2009.

CURRENT RESEARCH GROUP (Ph.D., Scholars):

S.PADMANATHAN – (padmanathanphysics75@gmail.com)

T.SARAVANAKUMARAN – (vsasrvn@gmail.com)

M.SUMATHI – (sumathinano6@gmail.com)

A.NALLATHAMBI – (nallathambikv@gmail.com)

D.KRISHNAMOORTHY - (kmbarani@gmail.com)

M.GOMATHI - (gomathinaveen88@gmail.com)

M.INDHUMATHI - (indhuphd@gmail.com)

R.ARIVAZHAGAN - (rarivazhagan1988@gmail.com)

K. DEEPAK VIJAY - (deepakvijaysalem@gmail.com)

R. SRIDEVI - (phdphysics2021@gmail.com)

V. JAYANTHI- (jayanthijaya568@gmail.com)

S. MURUGESAN (subbaiyanmurugesan@gmail.com)

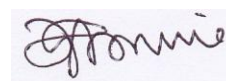
Contributions to teaching:

Contributions in developing courses, academic programmes, innovative teaching methods, work leading to better teaching, research in the Department. Seminar classes conducted through OHP, Multimedia Power Point (Side Projector) and Intranet teaching in the College in addition to the normal black board teaching. Industrial visit arranged to impart their (students) knowledge.

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

Declaration

I hereby affirm that the details provided in this Resume are accurate and true to the best of my knowledge and belief.



Dr. A. Prakasam