

Faculty Profile



Dr. M. PRIYA, M.Sc, M.Phil, Ph.D (Physics). M.Ed, P.Phil (Education), PGDCA, PGDHPs, .NET Professor/ Physics, Associate Dean(Research- Basic Sciences)

HIGHLIGHTS:

- Number of Journal Publications: 85
- H-Index: 19
- Project Funding Received: 4
- Patents Published: 5
- Patents Granted: 2

PROFESSIONAL LINKS:

- Scopus ID: Priya, Murugasen
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=23020108100>
- Google Scholar ID: <https://scholar.google.com/citations?user=IElqyycAAAAJ&hl=en>
- Anna University Faculty ID: 2122086
- AICTE Faculty ID: 11495594095
- Anna University Supervisor ID: <https://cfr.annauniv.edu/annasup/login/profile/home.php>
- LinkedIn: <https://www.linkedin.com/in/kasthuri-priya-23900974/>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 28 years
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

- MOU with Changchun University of Science and Technology, Changchun, China 2017-2020 – Project on Large size crystal Growth
- Visiting Professor in the Photoelectric Functional Materials Engineering Research Center of the Ministry of Education at Changchun University of Science and Technology, Changchun, China for 24 days from September 25 to October 18, 2017
- Visiting Professor in the Photoelectric Functional Materials Engineering Research Center of the Ministry of Education at Changchun University of Science and Technology, Changchun, China for 1 month (July 2018)
- Visited National University of Singapore and presented 2 research papers in the International Conference on Materials for Advanced Technologies (June 26 - July 01, 2011) held at Suntec, Singapore

AREA OF SPECIALIZATION:

- Material Science
- Glasses & Composites

- Nanomaterials
- Alkali halides
- Physical Characterization
- Materials composition Testing & Analysis
- Research & Development
- Strategic & Analytical Planning
- Teaching & Administration
- Curriculum Development & Creative Lesson Planning
- Project Management
- Team Building & Leadership
- Innovation & Control
- Continuous Process Improvement

Ph.Ds AWARDED WITH DETAILS:

S:No	University	Name Of Scholar	Title Of Thesis	Year Of Completion	Full Time/Part Time
1	Bharathiyar University	Sheeba.B	Investigation On Some Graphene Based Metal Oxide Nanocomposites For Supercapacitor Electrodes	31.08.2023	Part Time
2	Anna University	Srilekha M K	Design And Implementation Of Nano Sensor For Fatty Liver Detection And Monitoring Using Machine Learning Algorithm	20.06.2023	Part Time
3	Anna University	Srilatha G	Studies On Metal Oxide Nanomaterials For Heterogeneous Photocatalyzation Of Dyes In Water	09.08.2023	Full Time
4	Anna University	Prabha B	Aberrant Behavior Prediction And Severity Analysis For Autistic Child Through Deep Transfer Learning To Avoid Adverse Drug Effect	19.07.2022	Part Time
5	Anna University	Ganesh E	Earlier Detection Of Glaucoma From Aqueous Humor Fluid Of Human Eye Through Spintronic Sensor And Machine Learning Algorithms	04.07.2022	Part Time
6	Anna University	Muralimanohar P	Development Of Rare Earth Doped Oxyfluoride Glass Ceramics For Photonic Applications	03.03.2022	Full Time
7	Bharathiyar University	Deepa.A.V	Investigations On The Synthesis And Characterization Of Rare Earth Doped Glasses	14.08.2019	Full Time
8	Anna University	Tamizh Selvi K	Investigations On The Optical, Electrical And Magnetic Properties Of Mn ₃ O ₄ /Mgo, CuO/Mgo, ZnO/Mgo And Pr ₆ O ₁₁ /Mgo Nanocomposites	26.09.2017	Part Time
9	Anna University	Alamelu Mangai K	Investigations On The Magnetic And Transport Properties Of Pure And Substituted Strontium Hexaferrite Nano Magnetic Materials	09.10.2017	Part Time
10	Anna University	Thangeeswari T	Investigations On The Ferromagnetic Property Of ZnO Nanomaterials For DMS Applications	June 2015	Part Time

Ph.Ds GUIDING (as on 2025):

- Full Time Scholars: 3
- Part Time Scholars : 3
- Thesis Submitted : 2

SPONSORED RESEARCH / FUNDING SCANTIONED / CONSULTANCY:

- CSIR - August 2023 - Project on Bioactive Glasses for Bone Replacement (INR 25,00,000/-)
- BRNS - Sep 2020 to Sep 2023 - Project on Synthesis and Characterization of Novel Lanthanide Incorporated Non-Silicate Glass Ceramics as Radiation Shielding Materials (INR 24,23,600/-)
- BRNS - April 2013 to Sep 2017 - Project on Non-Silicate glasses for Gamma Ray Protection (INR 16,44,000/-)
- DST - Women Scientist Scheme - July 2005 to June 2008 – Project on the Growth and Characterization of Multi phased and Ternary Mixed crystals of Alkali Halides (INR 9, 30,000/-)

PATENTS PUBLISHED/GRANTED:

- Preparation and characterization of Rare Earth Doped Non-Silicate Glass – Ref No- (R201741027737), 8/2/2019, 06/2019, Intellectual property of India – Patent Granted
- A system for identification of magnetism in aqueous humor fluid during static and dynamic in nature, Ref no 201741031639 7th September 2017- Patent Granted
- Phosphate glasses for Gamma Ray Shielding - Ref No-(R201741027738), 8/2/2019, 06/2019, Intellectual Property of India – Patent Published
- Multi-phased mixed crystals prepared from NaCl, KCl and KI - Ref No - (R20184100766), 6/9/2019, 36/2019, Intellectual property of India - Patent Published
- Oxide added NaCl and KCl Crystals - Ref No - (R20184100767), 6/9/2019, 36/2019, Intellectual Property of India - Patent Published
- Human Fatty liver measurement through Nano polyvinyl Sensor based instantaneous frequency and Gaussian Regression, Ref no 202241032718 - Patent Published
- Multipurpose Aluminum & Barium Based Borophosphate Glass with effective Radiation Shielding Application – Ref no- 202341025554, - Patent Published

COURSES CERTIFIED:

- Certified Trainer in Design Thinking from Intellect School of Design Thinking in 2018
- IUCEE Pre-Certification on Engineering Education – IGIP in 2018
- IIT Certification on Teaching – Learning Process – IIT – MHRD Certified in 2017
- Business English Certification from Cambridge English Assessment in 2016
- Post Graduate Diploma in Student Psychology from Coimbatore Psychology Foundation in 2014
- Completed Wipro Mission 10X-Faculty Development course in 2010
- Post Graduate Diploma in Educational Leadership from the Centre for Educational Management Development in 2009
- .NET Course from NIIT in 2007
- Diploma in AutoCAD from BITS in 2001
- Post Graduate Diploma in Computer Application from BITS in 2000.

ACHIEVEMENTS AND AWARDS:

- Best Presentation Award at Future Trends in Materials and Characterizations seminar held at Loyola College, Chennai (February 28th, 2006)
- Best Presentation Award at International Conference on Impact of Physical Sciences on Biology, Icipb - 2011, July 7th – 9th 2011, at Post Graduate & Research Department of Botany, Queen Mary's College (A) Chennai

- Best faculty award – Saveetha Engineering College for Research (2017, 2021, 2022, 2023)

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Electrical measurements on KDP crystals added with thiourea, XXX National Seminar on Crystallography (June 2000) held at Sri Venkateswara University, Tirupati
- Studies on the solid solutions of NaCl-KCl-KI, National Conference on Crystal Growth and Characterization (March 2001) held at S.T. Hindu College, Nagercoil
- Optical and dielectric measurements on thiourea added KDP single crystals, XIII Annual General Meeting of the MRSI (February 2002) held at Defence Metallurgical Research Laboratory (DRDO), Hyderabad
- Growth and characterization of $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ crystals, XIII Annual General Meeting of the MRSI (February 2002) held at Defence Metallurgical Research Laboratory (DRDO), Hyderabad
- Thermal parameters of $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ crystals, International Symposium on Recent Advances in Inorganic Materials (December 2002) held at I.I.T. Bombay, Mumbai
- X-ray diffraction and electrical measurements on $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ solid solutions, XIV Annual General Meeting of the MRSI (February 2003) held at Bhabha Atomic Research Centre, Mumbai
- DC conductivity measurements on $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ crystals, IX National Seminar on Crystal Growth (February 2003) held at Anna University, Chennai
- Studies on multiphased mixed crystals of NaCl, KCl and KI, XXXIII National Seminar on Crystallography (January 2004) held at National Chemical Laboratory, Pune
- Studies on mixed crystals of NaCl, NaBr, KCl, KBr and KI, International Workshop on Crystal Growth and Characterization of Technologically Important Materials (February 2004) held at Anna University, Chennai
- Studies on $(\text{NaBr})_x(\text{KCl})_{y-x}(\text{KBr})_{1-y}$ crystals, XV Annual General Meeting of the MRSI and Symposium on Materials for Light and Smart Structures (February 2004) held at Banaras Hindu University, Varanasi
- Lattice variation and thermal parameters of $(\text{NaBr})_x(\text{KCl})_{y-x}(\text{KBr})_{1-y}$ and $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ crystals, Sixth International Conference on Solvothermal Reactions (August 2004) held at University of Mysore, Manasagangotri
- Soluble impurities and nucleation parameters of KDP single crystals, National Conference on Optics and Related Phenomena (August 2005) held at S.N. College, Kollam
- Growth and characterization of $(\text{NaCl})_x(\text{KCl})_{y-x}(\text{KI})_{1-y}$ crystals, Second All India Conference of KAAS (October 2005) held at Scott Christian College, Nagercoil India 2020
- Seminar on Future Trends in Materials and Characterization (February 2006) held at Loyola College, Chennai
- On the preparation of nanostructured ZnO films, International Conference on Nanoscience and Nanotechnology (August 2006) held at University of Madras, Chennai
- DC conductivity measurements on oxide-added alkali halide crystals, Second National Symposium on Nonlinear
- Optical Crystals and Modelling in Crystal Growth (March 2007) held at Anna University, Chennai
- Studies on CdO added alkali halide crystals, National Conference on Recent Trends in Optoelectronics and Laser Technology (April 2007) held at the University of Kerala, Thiruvananthapuram
- Studies on solvothermal prepared ZnS nanocrystals, National Conference on Recent Trends in Optoelectronics and Laser Technology (April 2007), University of Kerala, Thiruvananthapuram
- Studies of Oxide added NaCl-KCl Crystals, International Conference on Recent Advances in Bio Materials (CRAB-2010), 17-18, December, 2010, Saveetha School of Engineering, Chennai
- Studies of Oxide added NaCl-KCl Crystals, International Conference on Recent Advances in Bio Materials (CRAB-2010), 17-18, December, 2010, Saveetha School of Engineering, Chennai

- Growth and Characterization of Pure and MnPO_4 added ADP single Crystals, National Conference on Recent Trends in Crystal Growth and Nanotechnology, 28-29, January 2011, conducted at Arignar Anna College, Aralvaimozhi, K.K. District
- Studies on Hydrogen-Bonded mixed crystals, NCRAFAS, 25-26 February 2011, Arupadai Veedu Institute of Technology, Chennai
- The Effect of Temperature and Frequency on the Electrical Conductivities of Hydrogen-Bonded Crystals, National
- Conference on Advances in Science and Technology NCAST -2011, 01, March 2011, Saveetha School of Engineering, Chennai
- Novel Synthesis and Characterization of CdS Nano Crystals, ISBN No: 978-981-08-8877-0, Abstract ID
- ICMAT11-A-0237, Symposium Selected EE: CGCT-5-Functional Materials Crystallization, Characterization and Devices, International Conference on Materials for Advanced Technologies (ICMAT 2011) in Singapore during 26/06/11 to 01/07/11
- Effect of Dichromate Addition on the Dielectric Properties of KDP Single Crystals, ISBN No: 978-981-08-8877- 0, Abstract ID ICMAT11-A-0236 Symposium Selected Photovoltaic Materials and Devices. International conference on Materials for advanced technologies (ICMAT 2011) in Singapore from 26/06/11 to 01/07/11
- Intermolecular and interionic interaction in L- iso amino acids and some aqueous salt solutions, international conference on Advanced Materials, during Jan 5-7,2012, department of Physics Loyola college, Chennai
- Vibrational spectroscopic studies on Pure and NH_4Cl and NH_4Br doped KDP single Crystals, International conference on Advanced Materials, Jan 5-7, 2012, department of Physics Loyola College, Chennai
- Preparation and Properties of II-VI compound added NaCl KCl poly crystals; International conference on Advanced Materials, Jan 5-7, 2012, department of Physics Loyola College, Chennai
- Studies on Alkali Halide doped Amino Acids, XVI National Seminar on Crystal Growth, XVI – NSCG-2012, Jan 19-21, 2012, Department of Physics, Aditanar College of Arts and Science, Tiruchendur
- Creativity in Curricular Design, International Conference on Professional English-ICOPE 2012, Feb 15-16, 2012, Department of English, Veltech Technical University, Chennai
- Study of Thermal Properties of MgO nanoparticles for Novel Applications, National Conference NCPNM-2012, Dept. of Physics, Noorul Islam University, Kumaracoil
- Effect Of Calcination Temperature on The Particle Size and Composition of The Mgo Nanoparticles International Conference IMSAB- 2012, The Post Graduate Department of Physics, Bishop Moore College, Kerala
- Study of thermal properties of MgO nanoparticles for novel applications, National Conference on Physics of New Materials (NCPNM-2012) April 20-21, 2012, Noorul Islam University, Nagercoil, India
- Effect of calcination temperature on the particle size and composition of the MgO nanoparticle, International Conference on Molecular Spectroscopy of Advanced Materials & Biomolecules” (IMSAB-2012) August 7-9, 2012, Bishop Moore College, Kerala, India
- Different Morphologies of MgO nanostructure and its Band Gap Studies, Recent Trends in Nano-Biotechnology, (NANOMEET 2013), September 19-20, 2013, Anna University, Chennai, India
- Effect of Solvent and Annealed Temperature on Band Gap Energies of MgO Nanoparticle, International Conference on Science, Engineering & Management Research (ICSEMR) IEEE-13 XPLOER conference proceedings, November 27-29, 2014, Vel Tech Multi Tech Engineering College, Chennai, India
- Study of dielectric properties of MgO nanosheets synthesized by simple sol-gel method, National conference on Sol-gel Coating (NCSGC-2015), April 10, 2015, Velammal Engineering College, Chennai, India

- AC and DC conductivities of MgO Nanosheets Synthesized by Sol-gel Method, National Conference on Emerging Trends in Science and Humanities (NCETSH-2015), April 11, 2015, Saveetha Engineering College, Chennai, India
- Optical and Magnetic Properties of MgO Nanosheets, National Conference Graphene & Liquid Crystals on Smart Nano-engineering Applications 2016 (GLCSNA-2016), November 7th – 9th 2016, Saveetha Engineering College, Chennai, India
- An Overview: Structural and Optical Properties of Different Rare Earth Doped Phosphate Glasses, National
- Conference on Recent Trends in Physics of Materials, (NCRTPM 2018), held at Pachaiyappa's College on February 9–10, 2018
- Growth and physicochemical properties of organometallic (DL)- trithioureatartrato-O1, O2, O3-cadmium (II) single crystals” 7th Asian Conference on Crystal Growth and Crystal Technology (CGCT-7) Changchun University of Science and Technology, Changchun 130022, China on October 15th – 18th, 2019

PROFESSIONAL MEMBERSHIPS:

- Life Member - Indian Association for Crystal Growth
- Life Member - Indian Association of Physics Teachers
- Life Member – Material Research Society of India
- Life Member - Indian Institute of Metals

OTHER DETAILS (If any):

CONFERENCE PROCEEDINGS:

- Lattice variation and thermal parameters of thiourea added KDP single crystals, Proc. Intl. Workshop Prep. & Charact. Tech. Imp. Single Crystals (2001) (National Physical Laboratory New Delhi) p.188 - 192
- Effect of impurities having no common ion on the dielectric properties of KDP single crystals, Advances in Technol. Imp. Crystals (2007) (Macmillan Publishers, New Delhi) p.146-156 11
- Studies on alkali halide crystals added with ZnO, Advances in Technol. Imp. Crystals (2007) (Macmillan Publishers, New Delhi) p.186-192
- Effects of NaOH as a capping agent on the preparation of ZnS, ZnO, CdS and CdO nanocrystals, (2007) EAST, p. 143-147
- Novel Synthesis of PBS nanocrystals, (2007) EAST, p. 157-161
- Studies on Oxide added NaCl-KCl Crystals, Proc. Conference on Recent Advances in Biomaterials, Dec 17 - 18'10, Recent Research in Science and Technology 2010, 2(12):26-40, ISSN: 2076-5061

JOURNALS REVIEWED:

- Ceramics International
- Spectra Chemica Acta
- Journal of Non-Crystalline Solids
- Materials Today: Proceedings
- Materials Research
- Journal of Molecular Structure
- Physics and Chemistry of Glasses
- Journal of Superconductivity and Novel Magnetism
- Water Quality, Wastewater Treatment and Water Recycling (MDPI)
- Optical Communications
- Journal of Engineering Physics & Thermodynamics

- SRC Publications
- International Journal of Materials Research (formerly: Zeitschrift fuer Metallkunde)
- Journal of Magnetism and Magnetic Materials
- Energy Reports
- Environmental Science and Pollution Research