



Dr. Pramod Gopinath FRSC

Professor

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Profile

Administrative/Teaching Experience:

- Professor of Photonics at International School of Photonics, Cochin University of Science and Technology since March 2016
- Visiting Professor, University of Gothenburg, Sweden May - June, 2022, under Erasmus Plus Faculty Exchange program.
- Immediate past Director, International School of Photonics, Cochin University of Science and Technology (July 2019 - July 2022)
- Honorary Assistant Director, Centre for Science in Society, Cochin University of Science and Technology since October 2018.
- Member, Facility Management Committee (DST Nominee) of SAIF Kochi
- Assistant Professor of Physics at Indian Institute of Space Science and Technology, Thiruvananthapuram during May 2011 – March 2016
- Reader in Physics at Indian Institute of Space Science and Technology, Thiruvananthapuram during September 2007 – April 2011
- Guest Faculty at the Centre of Excellence in Lasers and Optoelectronic Sciences, Cochin University of Science and Technology, Cochin, India, during September 2006 to June 2007
- Lecturer at the Department of Physics, Sacred Heart College, Thevara, Cochin 682 013, from July 01, 2005 to September 15, 2006
- Lecturer(Contract) at the International School of Photonics, Cochin University of Science and Technology, Cochin, during the period December 2003 to April 2005

- Guest Faculty at the Centre of Excellence in Lasers and Optoelectronic Sciences, Cochin University of Science and Technology, Cochin, India, during the period from January 2003 to November 2003
- Guest Lecturer in Physics at the MEAS Science College, Areacode, Malappuram District, Kerala, India during the period from September 2001 to March 2002

Research Experience:

- Currently supervising eight research students for their Ph.D. degree.
- Mentoring one fellow under Women Scientists Scheme-A (WOS-A), Department of Science and Technology, Govt. Of India
- Mentoring two University Post-Doctoral Fellows
- Mentored one UGC-DSK Post-Doctoral Fellow (2017-20)
- Supervised/Co-supervised 4 research students for their Ph.D. degree during 2010-2015 at Indian Institute of Space Science and Technology, Thiruvananthapuram
- Successfully completed a research project entitled “Polymer nanocomposites for photonic and electronic applications” of Rs. 26.05 Lakhs, funded by Indian Institute of Space Science and Technology, Thiruvananthapuram, (Department of Space, Government of India) during 2009-13
- Worked as a Post-doctoral Research Associate at the Centre of Excellence in Lasers and Optoelectronic Sciences, Cochin University of Science and Technology, Cochin, India, during June 2007 to September 2007
- Worked as a Research Assistant, Junior Research Fellow and Senior Research Fellow at the International School of Photonics, Cochin University of Science and Technology, Cochin, under the supervision of Prof. V P N Nampoory during April 1996 - September 2001 with a Research Fellowship from the University Grants Commission (Govt. of India), New Delhi. The main areas of research undertaken were Laser produced Plasma, Nonlinear Optics, Optical Limiting and Thermal Lens spectroscopy
- Worked as a Junior Research Fellow at the Regional Centre of National Institute of Oceanography during July 1995 to April 1996 in a Department of Ocean Development Project.

Academic Qualifications:

- **Ph.D.** under the **Faculty of Technology**, Cochin University of Science and Technology, for the thesis titled, *Studies on the optical and X-ray emission processes in laser produced plasma*, under the supervision of Prof. V P N

Nampoori, International School of Photonics, Cochin University of Science and Technology

- **UGC JRF (NET)-** Qualified UGC-CSIR (Govt. of India) National Eligibility Test for Junior Research Fellowship and Lectureship
- **M.Sc.** in Physics with Materials Science specialization from School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala, India with a First Class
- **B.Sc.** with Physics as the main subject and Mathematics and Chemistry as the subsidiary subjects from Sacred Heart College, under Mahatma Gandhi University, Kottayam, Kerala, India with a First Class

Awards/Distinctions Received:

1. Best Paper Award for the paper, *Study of dynamics of single and laterally colliding laser produced plasmas* Shilpa S. and Pramod Gopinath, International e-conference on Recent Advances in Physical Science ICRAPS-2021 organized under (UGC –STRIDE) Mahatma Gandhi University, Kottayam, in association with Bharata Mata College, Thrikkakkara, December 1-3, 2021
2. Best Paper Award for the paper, *Investigating the Magneto-Optic Faraday rotation of CoFe₂O₄-Au nanocolloidal mixture* Lakshmi B and Pramod Gopinath at International Conference on Recent trends in Photonics, held at International School of Photonics, Cochin University of Science and Technology, during 27 Feb – 1 March, 2021
3. Best Paper Award for the paper, *Multiferroic and antibacterial studies of BiFeO₃-NaNbO₃-PMMA film*, Rehana P Ummar, Jiya Jose, Pramod Gopinath, Nandakumar Kalarikkal, Sabu Thomas, National Photonics Symposium (NPS 2018) at International School of Photonics, CUSAT during 27 February - 1 March, 2018
4. Best Paper Award for the paper entitled *Fifth order nonlinear optical absorption in PMMA-ZnO/MWNT composite film*, Haripadmam, P.C., Honey, J. and Pramod Gopinath, *International conference on Photonics and Solar water splitting*, Cochin, 12-13 March 2015
5. Best poster award for the paper entitled *Improvement in Optical Limiting Properties of PMMA-ZnO nanocomposites films prepared using oleic acid as a dispersing agent*, P. C. Haripadmam, Honey John and Pramod Gopinath, IIST Research Scholars' Day during 16 – 17 December 2013
6. Best Paper Award for the paper entitled *Synthesis, characterization, and improved photocurrent generation of polyaniline-phenylene diamine functionalized reduced graphene oxide hybrid*, Remyamol T, Pramod Gopinath and Honey John, IIST Research Scholars Day-2013, 16-17 December 2013
7. Best Poster Award for the poster entitled *Effect of loading concentration of ZnO in enhancing the two photon absorption coefficient of polystyrene-ZnO nanotop composite films*, Haripadmam P C, Honey John and Pramod Gopinath, 37th National Symposium of Optical Society of India, Pondicherry University, 23-25 January 2013

8. Best Paper Award for the paper entitled *Cubelike polyaniline: Synthesis by inverse microemulsion polymerization and its nonlinear optical properties*, Remyamol T, Honey John, Pramod Gopinath, 25th Kerala Science Congress held at Technopark, Thiruvananthapuram, during 29th January 2013- 1st February 2013.
9. Best Paper Award for the paper entitled *Cube-like polyaniline thin film in PMMA matrix: Synthesis and nonlinear optical properties*, Remyamol T, Honey John, Pramod Gopinath. IIST Research Scholars day 2012 held at IIST, Thiruvananthapuram, during 17-19 December 2012
10. Best Poster Award for the poster entitled *Synthesis, characterization and photoluminescence of Triangular ZnO nanostructures*, Kavitha M K, Haripadmam P C, Pramod Gopinath, Honey John, NanoSciTech 2012 International Conference on Frontiers of Nanoscience, Nanotechnology and their Applications organized by Punjab University during 15-18 Feb 2012
11. Best Paper Award for the paper entitled *Spherical nano Metal Oxide: A promising material for optical limiting*, Haripadmam, P.C., Honey, J. and Pramod Gopinath , Research Scholar's Day organized by Indian Institute of Space Science and Technology during 16 – 17 December 2011
12. Won the second best poster award for the paper “Dynamics of the ambient molecules during laser ablation of a solid target” at the XV National Symposium on Plasma Science & Technology, PLASMA-2000, Saha Institute of Nuclear Physics, Calcutta during 5-8 December 2000
13. Won the best oral presentation award for the paper “Prompt electron emission and impact ionization of ambient gas molecules during laser metal interaction” at the XII National Symposium on Plasma Science & Technology, IPR, Gandhinagar during December 2-5,1997
14. The paper entitled “Time resolved study of CN band emission from plasma generated by laser irradiation of graphite” by S S Harilal, Riju C Issac, C V Bindhu, Pramod Gopinath, V P N Nampoori, C P G Vallabhan, Spectrochimica Acta Part A 53 1527-1536 (1997), was selected as one of the best 14 papers published in the journal in 1997
15. Awarded the Junior Research Fellowship by UGC-CSIR (Govt. of India) for Physical Sciences in June 1996.

Membership in Professional Societies:

Fellow of Royal Society of Chemistry, UK (RSC)
 Senior Member of IEEE
 Life Member of Kerala Academy of Sciences (KAS)
 Life Member of Indian Physics Association (IPA)
 Life Member of Indian Laser Association (ILA)
 Life Member of Plasma Science Society of India (PSSI)
 Life Member of Photonics Society of India (PSI)
 Life Member of The Indian Science Congress Association (ISCA)
 Life Member of Optical Society of India (OSI)
 Member of Optica (formerly Optical Society of America (OSA))

Other academic activities

(a) Honorary Academic Activities

1. Serving as Hon. Assistant Director, **Centre for Science in Society (C-SiS)**, Cochin University of Science and Technology from October 2018.
2. Served as Member, Academic Council, Cochin University of Science and Technology during July 2019-July 2022.
3. Coordinator, International School of Photonics, CUSAT and Indian Institute of Technology Madras Academic and Research Collaboration
4. Served as **Member, Internal Quality Assurance Cell**, Cochin University of Science and Technology during 2017-19.
5. Serving as **Member of Academic Committee, Apex Committee and Project Implementation Group** of Inter University Centre for Nanomaterials and Devices (IUCND), Cochin University of Science and Technology
6. Serving as **Member of Board of Studies** in Photonics, CUSAT
7. Serving as **Member of Board of Studies** in Physics at St. Berchman's College (Autonomous), Changanassery.
8. Serving as **Member of Board of Studies** in Physics at St. Teresa's College (Autonomous), Ernakulam.
9. Serving as **Member of Board of Studies** in Physics at Rajagiri School of Engineering and Technology, Kakkanad, Cochin
10. Serving as **Member of Board of Studies** in Physics at Sacred Heart College (Autonomous), Thevara, Cochin
11. Serving as **Member of Board of Studies** in Physics at Maharaja's College (Autonomous), Ernakulam
12. Serving as **Member of Board of Studies** in Physics at St. Albert's College (Autonomous), Ernakulam
13. Serving as **Chairman, Department Research Committee** of International School of Photonics (ISP) at Cochin University of Science and Technology
14. Serving as **Member, Research Committee** of Inter University Centre for Nanomaterials and Devices (IUCND) at Cochin University of Science and Technology
15. Served as the **Coordinator**, M.Tech. (Optoelectronics and Laser Technology) Programme, International School of Photonics, Cochin University of Science and Technology

16. Served as **Ph.D. Thesis Examiner**, Assam University, Silchar
17. Served as **Ph.D. Thesis Examiner** for University of Hyderabad.
18. Served as **Chairman, Board of Adjudicators for Ph.D.** for Mahatma Gandhi University, Kottayam
19. Served as **Expert Evaluator**, KSCSTE SARD Proposal Evaluation (2019)
20. Served as **Ph.D. Theses Examiner** for Mahatma Gandhi University, Kottayam
21. Served as **Ph.D. Thesis Examiner** for University of Calicut
22. Served as **M.Tech. Thesis Examiner**, University of Kerala
23. Served as **Question Paper Setter and Chairman, Scrutiny Board** for University of Kerala.
24. Served as an **External Question Paper Setter** for University of Calicut.
25. Served as an **External Question Paper Setter** for Mahatma Gandhi University
26. Served as an **External Question Paper Setter** for the Integrated M.Sc. Program in Photonics at Cochin University of Science and Technology
27. Served as **Member Secretary of Board of Studies** for M.Tech.(Optical Engineering) at IIST during 2013-16
28. Served as a **Doctoral Committee member** for seven Ph.D. students at IIST out of which two in the capacity of the Convenor of the Committee.
29. Served as the **Executive Council Member** of the Plasma Science Society of India(PSSI) during 2013-15

(b) Conferences Organized/Member Committees

1. Served as Conference Chair, International Conference on Recent Trends in Photonics (NPS-2022), to be held at International School of Photonics, Cochin University of Science & Technology, during Feb 27- Mar 1, 2022
2. Served as Conference Chair, International Conference NANOicon 2022 held at Inter University Centre for Nanomaterials and Devices, Cochin University of Science & Technology, during Jan 11-15, 2022.
3. Served as Conference Chair, International Conference on Recent Trends in Photonics (NPS-2021), held at International School of Photonics, Cochin University of Science & Technology, during Feb 27- Mar 1, 2021

4. Served as Chairman of National Photonics Symposium 2020, held at International School of Photonics, Cochin University of Science & Technology, during Feb 27-29, 2020
5. National Advisory Committee member of International Conference on Optics and Electro-Optics (ICOL-2019), held at the Instruments Research and Development Establishment Dehradun (Uttarakhand, India) during the period Oct.19-22, 2019
6. Served as the Symposium Chair - Symposium on Nanomaterials and Local Organizing Committee Member of the International Conference on Optoelectronic and Nano Materials for Advanced Technology (ICONMAT 2019) during January 3-5, 2019 at CUSAT
7. Coordinated a training program on Optical System Design and Illumination Analysis in collaboration with Gholographic Company, Kota, Rajasthan, during August 2-3, 2018 at International School of Photonics, CUSAT.
8. Served as an Organizing Committee member of INNVENT 2017 (Innovations in Nanoworld: Neoteric Vision and Emerging Nanotechnologies) at Inter University Centre for Nanomaterials and Devices, Cochin University of Science and Technology, Cochin during December 13-15, 2017
9. Served as a National Organizing Committee Member of the International Topical Meeting on Applied and Adaptive Optics at the Indian Institute of Space Science and Technology, Thiruvananthapuram during 11-13 August, 2017
10. Organizing Committee Member of National Photonics Symposium 2017, Member of National Photonics Symposium 2018, Member of National Photonics Symposium 2019, International School of Photonics, Cochin University of Science & Technology, during 2017-2019
11. Served as a Organizing committee Member of the 20th National Conference on Atomic and Molecular Physics (NCAMP-XX), IIST, 9-12 December 2014
12. Organizing Committee member of 35th Optical Society of India Symposium "International Conference on Contemporary Trends in Optics and Optoelectronics", IIST, 17-19 Jan 2011
13. 20th National Symposium on Plasma Science & Technology – PLASMA 2005, Cochin during December 2005
14. Annual Photonics Workshop 2005, International School of Photonics, Cochin University of Science & Technology, during February 26-28, 2005
15. Convenor - Registration, Network and IT support Committee of the Seventh International Conference on Optoelectronics, Fiber Optics and Photonics -Photonics 2004, Cochin during December 9-11, 2004
16. Annual Photonics Workshop 2004, International School of Photonics, Cochin University of Science & Technology, during February 26-28, 2004

(c) Schools/Colleges/Workshops/Conferences attended

Abroad

1. Winter College on Spectroscopy and Applications, February 8-26, 1999, Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, ITALY

In India

1. Indo-UK Symposium on Intense Laser Applications and Innovations (SILAI), TIFR Hyderabad during January 27-29, 2020.
2. International Conference on Optics and Electro-Optics (ICOL-2019), held at the Instruments Research and Development Establishment Dehradun (Uttarakhand, India) during the period Oct.19-22, 2019
3. Three Day Induction Training for newly recruited teachers conducted by Cochin University of Science and Technology during 14-16 March, 2018.
4. Two Day Workshop on Syllabus restructuring at Maharaja's College (Autonomous), Ernakulam during 17-18 September, 2015
5. International Conference on Ultrahigh Intensity Lasers, Hotel Cidade de Goa, 12-17 Oct 2014
6. National Seminar on Nanophotonics organized by School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, June 26, 2014
7. DAE-BRNS National Laser Symposium(NLS-22), Manipal University, Manipal, 8-11 Jan 2014
8. 23rd Swadeshi Science Congress held at Mahatma Gandhi University, Kottayam, 6-8 Nov 2013
9. National Colloquium on Theoretical Physics organized by Srinivasa Ramanujan Institute for Basic Sciences, Kerala State Council for Science, Technology and Environment, 9-11 Aug 2013
10. National Colloquium on Hundred years of crystallography organized by Kerala State Council for Science, Technology and Environment, 7-9 Feb 2013
11. 27th PSSI National Symposium (Plasma 2012) at Pondicherry University during 10-13 Dec 2012
12. Pre ICORS International Workshop on Raman Spectroscopy: Recent Advances, Techniques and Applications, organized by Kerala State Council for Science, Technology and Environment, 10 Aug 2012

13. National Seminar on Lasers in Material Science (LASER-2012), St. Greogorios College, Kottarakara during 1-2, March, 2012
14. National Workshop on recent Trends in Photonics, International school of Photonics, Cochin during 27-28 Feb 2012
15. Seminar on Practical Education in Photonics organized at Cochin University of Science and Technology, 19 January, 2012
16. National Conference on Electric Propulsion Systems at LPSC Bangalore during 23-24 Feb 2011
17. Computational Methods in Fluid Flow and Heat Transfer at Indian Institute of Space Science and Technology, Thiruvananthapuram during July 12-16, 2010
18. 97th Indian Science Congress, University of Kerala, Thiruvananthapuram during January 3-7, 2010.
19. Annual Photonics Workshop on Nano Photonics at the International School of Photonics, Cochin University of Science and Technology during February 27-28, 2009
20. Annual Photonics Workshop 2008 at the International School of Photonics, Cochin University of Science and Technology during February 26-28, 2008
21. Workshop on National Fusion Program – ITER and Beyond organized by PSSI-IPR, held at Ahmedabad during November 8-10, 2006
22. Indo-UK Workshop on Fiber Optics and its Applications at Cochin University of Science & Technology, during 29-31 August, 2006
23. Workshop on Virtual Instrumentation(LabVIEW) organized by Sophisticated Test and Instrumentation Centre and National Instruments, during 4-5 May, 2006 at Cochin
24. PLASMA- 2000, National Symposium on Plasma Science & Technology at Saha Institute of Nuclear Physics, Calcutta during 5-8, December 2000.
25. National Laser Symposium held at IIT Kanpur, during 14-16, December, 1998
26. ICOL-98, International Conference on Optics and Optoelectronics held at Dehradun, during 9-12 December, 1998
27. Seminar on Physics with Cooled and Trapped Atoms and Ions, March 5-6,1998, BARC, Mumbai, INDIA
28. National Laser Symposium held at PRL Ahmedabad, during 10-12 December, 1997
29. PLASMA-97, National Symposium on Plasma Science & Technology, organized by IPR Gandhinagar during December 2-5, 1997
30. SERC School on Non-Linear Optics and Laser Spectroscopy, March 10-28, 1997, Indian Institute of Technology, New Delhi, INDIA
31. National Laser Symposium held at CAT, Indore during February 6-8, 1997

32. Workshop on Nonlinear Optics, July 22-26,1996, Centre for Advanced Technology, Indore , INDIA

(c) Invited Talks

1. Delivered an invited talk on Laser and Optical Safety at the Workshop on Rendering Your Scientific Output (RYSO-21), held at International School of Photonics, Cochin University of Science and Technology during Nov 22-30, 2021.
2. Delivered an invited talk at International Conference on Optics and Electro-Optics (ICOL-2019), held at the Instruments Research and Development Establishment Dehradun (Uttarakhand, India) during the period Oct.19-22, 2019
3. Delivered an invited talk at the Two day Seminar on Exploring the Frontiers of Physics, TMJM Govt. College, Manimalakunnu on February 26, 2019
4. Delivered an invited talk on *Optical nonlinearity in ZnO-Graphene nano hybrid materials* at the "Two day National Seminar on Nonlinear Optical materials and devices" on February 20, 2018 at The Cochin College, Cochin, which was sponsored by KSCSTE
5. Delivered an invited talk on *Optical Nonlinearity in ZnO and its hybrids with graphene and carbon nanotubes* at the International Topical Meeting on Applied and Adaptive Optics at the Indian Institute of Space Science and Technology, Thiruvananthapuram during 11-13 August, 2017.
6. Delivered an invited talk on *High Power Lasers and Laser Produced Plasma* at the Workshop on Photonics organized by Srinivasa Ramanujan Institute for Basic Sciences and School of Pure and Applied Physics, M G University at Kottayam during 19-21 May, 2017
7. Delivered two lectures on *Optical Sources and Detectors* at the Short term course on Modern Optical Engineering at the Indian Institute of Space Science and Technology, Thiruvananthapuram during June 27 – July 2, 2016.
8. Delivered an invited talk on *Optical diagnostics of laser produced plasma* at the National Seminar on Advances in Scientific and Industrial Instrumentation at the Department of Instrumentation, Cochin University of Science and Technology, during 11-12 February, 2016.
9. Delivered an invited talk on *Hybrids with graphene for optical limiting application* at International School of Photonics, Cochin University of Science and Technology during the UGC sponsored Annual Photonics Workshop on 27 Feb, 2014.
10. Delivered an invited talk on *Emission processes in laser produced plasma* at the UGC Sponsored National Seminar on Lasers in Materials Science, held at St. Gregorios College, Kottarakara on March 02, 2012.

(e) Research Projects

- ◆ Advanced research in tactical oceanography, modern sensors, signal processing and telemetry” by ER&IPR, DRDO with Prof. Honey John as PI and Prof. Pramod Gopinath as one of the Co-Investigators with a total outlay of Rs. 183.95 Lakhs (sanctioned on April 28, 2022)
- ◆ Magnetoplasmonic studies on cobalt and nickel based nanostructures - DST-WOSA Project - Lakshmi B (PI) and Pramod Gopinath (Mentor) - Rs. 25.79 Lakhs (2019-22)(Ongoing)
- ◆ Polymer nanocomposites for photonic and Electronic Applications, Funded by IIST, Department of Space, Govt. of India, Principal Investigators: Dr. Pramod Gopinath and Dr. Honey John - Rs. 26.05 lakhs (54 Months) (Completed)

Other Administrative Tasks

1. Served as Director-in-Charge of International School of Photonics, CUSAT with full financial power, during June 3-23, 2016
2. Served as a Member, PDR of Fiber Optic Flank Array-Sonar Suite for FP-01 at NPOL, DRDO, Ministry of Defense, Govt. of India.
3. Served as a member of the Task Team for mathematical model and experimental studies on Stationary Plasma Thruster constituted by Deputy Director, LPSC/ISRO to devise experimental scheme involving intrusive/non-intrusive probes to understand the plasma behavior inside the SPT.
4. Served as the Member Secretary of the Board of Studies for M.Tech.(Optical Engineering) Programme, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, to review the curriculum and syllabus and as the coordinator of the program with duties starting from admission of fresh batch, arranging classes by visiting faculty members, if required; coordinating with them for the conduct of exams in time, allocation and timely evaluation of project work and forwarding of results to the academic office.
5. Served as the Chairman of IIST Time Table Council during 2010-16 and was responsible for the timely release of the timetable before the start of the semester for the three B.Tech. and fourteen M.Tech. Programs.
6. Served as a member of the Specialist Committee to prepare Self Study Report for NAAC Accreditation to IIST
7. Serving as a member of the Micro Quality Assurance Cell to assist the Internal Quality Assurance Cell for planning, guiding and monitoring quality assurance and quality enhancement activities in IIST.

8. Served as a member of the Standing Committee to evolve entrance test methodology for admission to IIST in 2010. The committee recommended to the Director the type of entrance test to be conducted, the evaluation methods, assignment of weightage for academic performance, etc.
9. Served as a Member of the Specialist Committee-4 (Administrative Tasks) for the conduct of first IIST Admission Test ISAT-2010. The Vendor for the conduct of the examination was selected and took part in the necessary planning, conduct and review of ISAT-2010.
10. Served as a member of the specialist committee to shortlist relevant journals and negotiate with publishers and to recommend them for subscription to the IIST library.
11. Served as a Member of the task team to finalize a Request for Proposal (RFP) for the IIST Campus Management Software.
12. Served as a Member and Convenor of the IIST Library Committee and as a member of IIST Library Stock Verification Committee
13. Served as a member of the committee to conduct IIST Admission Test in 2010, 2011 and 2012
14. Served as an official for Counselling for admission to the B.Tech. programme of IIST for 2009, 2010, 2011, 2012 and 2013

List of Publications

A. Journals/Books

1. *Study of stagnation layer of laterally colliding laser produced aluminium plasmas*, Shilpa S and Pramod Gopinath, *IOP Conference Series: Materials Science and Engineering* 1221 012018 (2022)
2. *Shocks and Solitons in collisional dense laser produced plasmas*, Shilpa S, Divya D Pai, Manesh Michael, C Venugopal and Pramod Gopinath, *Physica Scripta* 97 045601 (2022)
3. *Shock front interaction and dynamics of laterally colliding laser-produced plasmas*, Shilpa S and Pramod Gopinath, *Vacuum* 198 110872 (2022)
4. *Accurate band gap determination of chemically synthesized cobalt ferrite nanoparticles using diffuse reflectance spectroscopy*, B Lakshmi, Babbitto Joe Thomas, Pramod Gopinath, *Advanced Powder Technology*, 32 (10) 3706 (2021)
5. *Exploring the optical limiting, photo catalytic and antibacterial properties of BiFeO₃-NaNbO₃ nano composite system*, Rehana P. Ummer, Sreekanth Perumbilavil, Jiya Jose, Sabu Thomas, Pramod Gopinath, Nandakumar Kalarikkal, *RSC Advances* 11 8450 (2021)

6. *Photocatalytic degradation of methyl orange using MgFe₂O₄@TiO₂ core-shell nanoparticles*, Rehana P Ummer, Pramod Gopinath, Nandakumar Kalarikkal, Sabu Thomas, *AIP Conference Proceedings* 2082, 030038 (2019)
7. *Enhanced Room Temperature Ferromagnetism in Chemically Synthesised Co₃O₄ Nanoparticles*, B. Lakshmi, Anniemol Thomas and Pramod Gopinath, *AIP Conference Proceedings* 2082, 030022 (2019)
8. *Reduced graphene oxide/ZnO self-assembled films: Tailoring the visible light photoconductivity by the intrinsic defect states in ZnO*, Kavitha M K, Pramod Gopinath, Honey John, *Physical Chemistry Chemical Physics*, 17, 14647-14655 (2015)
9. *Hydrothermal synthesis of ZnO decorated reduced graphene oxide: Understanding the mechanism of photocatalysis*, Kavitha M K, Suresh C Pillai, Pramod Gopinath, Honey John, *Journal of Environmental Chemical Engineering*, 3, 1194-1199(2015)
10. *Diamagnetic cavitization of laser-produced barium plasma in transverse magnetic field*, Makaraju Srinivasa Raju, R. K. Singh, Ajai Kumar, and Pramod Gopinath, *Optics Letters*, 40 (10) 2185-2188 (2015)
11. *Core-shell nanostructures of covalently grafted polyaniline–multiwalled carbon nanotube hybrids for improved optical limiting*, Remyamol T, Pramod Gopinath and Honey John, *Optics Letters*, 40, 21-24 (2015)
12. *Switching of absorptive nonlinearity from reverse saturation to saturation in Polymer-ZnO nanotop composite films*, Haripadmam P C, Honey John, Reji Philip and Pramod Gopinath, *Applied Physics Letters* 105, 221102 (2014)
13. *Enhanced photocatalytic activity of polyaniline through noncovalent functionalization with graphite oxide*, Remyamol T, Pramod Gopinath and Honey John, *Materials Research Express* 1, 045602 (2014)
14. *Influence of magnetic field on laser-produced barium plasmas: Spectral and dynamic behaviour of neutral and ionic species*, Makaraju Srinivasa Raju, R. K. Singh, Pramod Gopinath and Ajai Kumar, *Journal of Applied Physics*, 116, 153301 (2014)
15. *Defect Engineering in ZnO Nanocones for Visible Photoconductivity and Nonlinear Absorption*, Kavitha M K, Jinesh K B, Reji Philip, Pramod Gopinath and Honey John, *Physical Chemistry Chemical Physics* 16, 25093 (2014)
16. *Photoinduced electron transfer, improved nonlinear optical properties and photocurrent generation in polyaniline-graphite oxide hybrid*, Remyamol T, Pramod Gopinath and Honey John, *Materials Research Express*, 1, 035051 (2014)
17. *Phenylenediamine functionalized reduced graphene oxide/polyaniline hybrid: synthesis, characterization, improved conductivity and photocurrent generation*, Remyamol T, Pramod Gopinath and Honey John, *RSC Advances*, 4 (56), 29901-08 (2014)
18. *Energy dependent saturable and reverse saturable absorption in cube-like polyaniline/polymethyl methacrylate film*, Remyamol Thekkayil, Reji Philip, Pramod Gopinath and Honey John, *Materials Chemistry and Physics*, 146, 218-223 (2014)
19. *Enhanced optical limiting in polystyrene-ZnO nanotop composite films*, P C Haripadmam, Honey John, Reji Philip and Pramod Gopinath, *Optics Letters*, 39, 474-477 (2014)

20. *Polyvinyl pyrrolidone assisted low temperature synthesis of ZnO nanocones and its linear and nonlinear optical studies*, M. K. Kavitha, Honey John and Pramod Gopinath, *Materials Research Bulletin*, 49, 132-137 (2014)
21. *Grafting of self assembled polyaniline nanorods on reduced graphene oxide for nonlinear optical application*, Remyamol T, Pramod Gopinath and Honey John, *Synthetic Metals*, 185-186, 38-44 (2013)
22. *Synthesis of reduced graphene oxide-ZnO hybrid with enhanced optical limiting property*, Kavitha M. K, Honey John, Pramod Gopinath and Reji Philip, *Journal of Materials Chemistry C*, 1, 3669-3676 (2013)
23. *Synthesis and nonlinear optical properties of reduced graphene oxide covalently functionalized with polyaniline*, Remyamol T, Honey John, and Pramod Gopinath, *Carbon*, 59, 308-314 (2013)
24. *Effect of morphology and solvent on two-photon absorption of nano zinc oxide*, M. K. Kavitha, P. C. Haripadmam, Pramod Gopinath, Bindu Krishnan and Honey John, *Materials Research Bulletin* 48 (5), 1967-1971 (2013)
25. *Optical limiting studies of ZnO nanotops and its polymer nanocomposite films*, P. C. Haripadmam, M. K. Kavitha, Honey John, Bindu Krishnan, and Pramod Gopinath, *Applied Physics Letters* 101, 071103 (2012)
26. *Nanosecond optical limiting response of sandwich-type neodymium dypthalocyanine in a copolymer host* B Aneeshkumar, Pramod Gopinath, Jayan Thomas, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, *Synthetic Metals*, 143, 197-201 (2004)
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B. Papers presented at Conferences / Symposia

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2. *Non-Linear Optical Properties of AIE Dye Upon Restriction of Intramolecular Motion*, R. Lakshmi and Pramod Gopinath, International Conference on Recent Trends in Photonics (NPS-2022), Cochin University of Science and Technology, Cochin, during February 27 - March 01, 2022.
3. *Investigating the Langevin Behaviour of Faraday Rotation in Soft Ferromagnetic CoFe₂O₄ Nanoparticles Dispersed in PVA-Water Medium*, Lakshmi B and Pramod Gopinath, International Conference on Recent Trends in Photonics (NPS-2022), Cochin University of Science and Technology, Cochin, during February 27 - March 01, 2022.
4. *Magnetic And Optical Properties of Magnetite/Graphene Oxide Nanohybrid*, Mubeena Rafi, Honey John and Pramod Gopinath, International Conference NANOicon 2022, Inter University Centre for Nanomaterials and Devices, Cochin University of Science and Technology, Cochin, during January 11- 15, 2022.
5. *Plasmonic Nature of Graphene Quantum Dots - An Alternative to Noble Metal Plasmonics*, Lakshmi Srinivasan, N Manoj, and Pramod Gopinath, Golden Jubilee International Conference NANOicon 2022, Inter University Centre for Nanomaterials & Devices, Cochin University of Science & Technology, Cochin during January 11-15, 2022

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13. *Fast imaging and spectroscopic study of colliding laser produced aluminium plasmas*, Shilpa S, Divya D Pai and Pramod Gopinath, 13th International Conference on Plasma Science and Applications (ICPSA) 2020, School of Physical Sciences, Ravenshaw University, Cuttack & AAAPT on December 26-28, 2020
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