

Vinod M, Ph.D.

Assistant Professor (On Contract)

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Present Address:

Institute for Integrated Programmes and Research in Basic Sciences (IIRBS)
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Research Area: Light-Matter interactions, Materials Physics, Nanotechnology

Research/Teaching Experience:

- Assistant Professor (on contract), Institute for Integrated Programmes and Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam (2023 - till date)
- Assistant Professor (on contract), School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam (2022-2023)
- Postdoctoral Researcher, Extreme Light Infrastructure - Nuclear Physics (ELI-NP), European Union Project, Romania (2018-2021)
- Postdoctoral Researcher, Materials Science Division, Indira Gandhi Centre for Atomic Research, DAE, Kalpakkam, India (2016-2018)

Industrial Experience: Worked as Senior Engineer at private Industries in the field of Laser, Optoelectronics and Nanotechnology instrumentation for Research and Development (2006-2011)

Academic Qualifications:

- Ph.D. in Physics-Optoelectronics, 2011-2016, University of Kerala
(Title of the Thesis: “Laser Assisted Synthesis of Gold and Silver based Colloidal Nanostructures and Their Characterization”)
- M.Tech in E &C (Optoelectronics and Optical communication), 2003-2005, University of Kerala
- M.Sc. in Physics, 2001-2003, University of Kerala

Presentations at Conferences:

1. Studies on plasmon coupling between pure colloidal gold nanoparticles prepared by laser ablation in water (MSMAT-2021), Jishad A. Salam, M. Vinod, K.G. Gopchandran, 19-20 November 2021.
2. SERS performance of Au, Ag and their bimetallic nanostructures prepared by pulsed laser ablation, National Seminar on Photonics and its applications (NSPA 2015), Vinod M. and K.G. Gopchandran, Department of Optoelectronics, University of Kerala, Thiruvananthapuram, 9-11 December 2015.
3. Scanning tunnelling microscopic studies on the Au, Ag and their bimetallic nanostructures, International symposium on Photonics Applications and Nanomaterials (ISPAN 2015), Vinod M. and K.G. Gopchandran, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, 28-30 October 2015.
4. Laser assisted synthesis of Au, Ag and their bimetallic nanochains, M. Vinod and K.G. Gopchandran, National seminar on Advanced materials characterization techniques

- (AMCT 2015), Department of Physics, University of Kerala, Thiruvananthapuram, 27-28, March 2015.
5. Au and Ag nanoparticles prepared by pulsed laser ablation in liquid medium as SERS substrates, M. Vinod and K.G. Gopchandran, 5th International conference on Perspectives in vibrational spectroscopy (ICOPVS 2014), Department of Physics, Mar Ivanious college & The Kerala state higher education council, Thiruvananthapuram, 8-12 July 2014.
 6. Ag@Au core-shell nanoparticles synthesized by pulsed laser ablation as SERS substrates, M. Vinod and K.G. Gopchandran, National seminar on New frontiers in physics—scope and challenges, Department of Physics, St. Xaviers college, Thiruvananthapuram, 28-30 October 2014.
 7. Laser assisted synthesis of Ag@Au core-shell nanoparticles in liquid medium, M. Vinod and K.G. Gopchandran, National seminar on Frontiers of Polymers and Advanced materials (FPAM-2014), Department of Chemistry, University of Kerala, Thiruvananthapuram, 5-7 November 2014.
 8. Plasmonics and Antimicrobial characteristics of gold nanoparticles grown by Pulsed laser ablation in liquid medium, Vinod M. and K.G. Gopchandran, National Seminar on Spectroscopic Techniques and its applications for Material characterization (NSST 2013), Department of Optoelectronics, University of Kerala, Thiruvananthapuram, 3-4 October 2013.
 9. Raman signature for phase purity analysis of TiO₂ thin films, K. Prathapan, M. Vinod and K.G. Gopchandran, National Seminar on Spectroscopic Techniques and its applications for Material characterization (NSST 2013), Department of Optoelectronics, Thiruvananthapuram, 3-4 October 2013.

Participation in Seminars/Workshops:

1. Participated to the 6th Indian Nanoelectronics Users Programme (INUP) hands-on training workshop on nanofabrication technologies held at Centre for excellence in Nanoelectronics, IIT Bombay, Mumbai, India on 10, October 2011.
2. Pre-ICORS International workshop on Raman Spectroscopy: Recent Advances, Techniques and Applications, KSCSTE, Thiruvananthapuram, 10 August 2012.
3. Instructional workshop on LATEX, Department of Mathematics, University of Kerala, Thiruvananthapuram, 18-22 March 2013.
4. National Workshop on Recent Trends in Optoelectronics and Optical Communications (WOOC-2004), Department of Optoelectronics, University of Kerala, Thiruvananthapuram, 26-28 May 2004.
5. Annual Photonics Workshop on Recent trends in Optics, International school of Photonics CUSAT, Cochin, Kerala, 27-28 February 2004.
6. National Seminar on Recent Trends in Optoelectronics (NSRT-OPTO-2012), Department of Optoelectronics, University of Kerala, Thiruvananthapuram, 2-3 July 2012.
7. International Conference on Nano Science and Technology, Indira Gandhi Centre for Atomic Research, Kalpakkam, 27-29 February 2008.
8. Inculcate 2012-13, Science Propagation Programme of Government of Kerala, 22-25 February 2015.
9. Seminar on Photonic Materials 2014, Department of Optoelectronics, University of Kerala, Thiruvananthapuram, 6 December 2014.

Countries visited for Project work/Training:

Germany, Romania, China and South Korea