Detailed CV

Name: Rani M Pattabi

Educational Qualification: M.Sc (Kerala Universty)

Ph.D (IIT, Madras)

Designation: Assistant Professor

Address for Correspondence: 'AKASH', 10-99E/1, Kailas Nagar, Someshwar, Kotekar, Mangaluru, D.K.District, Pin:575022

E-mail: ranimpattabi@rediffmail.com

Phone: 9448618062 (M), 0824-2287249(O)

Research Areas: Metal and semiconductor nanoparticles – synthesis by chemical and green methods – properties and applications- sensors, photocatalysis, antimicrobial.

Professional Teaching Experience: 04 years (Faculty – UGC Innovative scheme)

08 years (Permanent faculty of University)

Research Journal Publications

International

1. Manjunatha Pattabi, Rani M. Pattabi and Ganesh Sanjeev
   "Studies on the growth and stability of silver nanoparticles synthesized by electron beam irradiation", J. Mater. Sci: Mater. Electron. 20, 12 (2009) 1233-1238.
2. Rani M. Pattabi and Manjunatha Pattabi

"Synthesis and characterization of thiosalicylic acid stabilized gold nanoparticles", Spectrochimica Acta A: Mol. Biomol. Spectrosc. 74, 1 (2009) 195-199.

3. Rani Pattabi, Kandikere Sridhar, Gopakumar Srinath, Vinayachandra Bhat and Manjunatha Pattabi
"Antibacterial potential of siver nanoparticles synthesized by electron beam irradiation", International Journal of Nanoparticle Research 3,1 (2010) 53-64.
4. Manjunatha Pattabi and Rani M Pattabi **(Review)**
"Photoluminescence from Gold and Silver Nanoparticles", Nano Hybrids Vol. 6 (2014) pp 1-35.
5. Tesfay W. Gebreslassie, Manjunatha Pattabi, Rani M. Pattabi
Review on the Photocatalytic Degradation of Dyes and Antibacterial Activities of Pure and Doped-ZnO", International Journal of Science and Research, 4 (2015) 2252-2264.
6. Tesfay Welderfael, Manjunatha Pattabi, Rani M. Pattabi, Arun Kumar Thilipan G, Photocatalytic activity of Ag-N co-doped ZnO nanorods under visible and solar light irradiations for MB degradation, J. Water Proc. Eng. 14 (2016) 117-123.

Books / Book chapters / Translations published

1. **Antibacterial Applications of Silver Nanoparticles,** Materials Science Forum Vol. 754 (2013) pp 131-142, Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/MSF.754.131

Papers/ poster presentations in Conferences / Seminars / Symposia (list)

International

Papers Presented at Conference/Conference Proceedings

2. Visible Luminescence from Au Nanoparticles Stabilized with Aromatic Thiols
Rani M Pattabi and Manjunatha Pattabi , Solid State Physics, Proceedings of the 55th DAE Solid State Physics Symposium 2010, AIP Conf. Proc. 1349, 369-370 (2011); doi: 10.1063/1.3605888
3. Antibacterial Efficacy of Silver Nanoparticles against Escherichia coli
Rani M Pattabi, Arun Kumar Thilipan G , Vinayachandra Bhat , K R Sridhar and Manjunatha Pattabi

SOLID STATE PHYSICS: Proceedings of the 57th DAE Solid State Physics Symposium 2012 AIP Conf. Proc. 1512, 372-373 (2013); doi: 10.1063/1.4791066

3. Rapid Synthesis of Gold Nanostructures Using the Fruit Extract of *Spondias mombin*
   Krishnaprabha M, Manjunatha Pattabi and Rani M Pattabi
   International Seminar on Nanoscience and Technology (ISNST2016), Mother Theresa Women's University, Kodaikanal, Tamil Nadu, September 20, 2016.
4. Synthesis of Gold Nanoparticles Using Skins of Allium sativum and Allium cepa as Reducing Agents, Krishnaprabha M, Rani M Pattabi and Manjunatha Pattabi
   International Seminar on Nanoscience andTtechnology (ISNST2016), Mother Theresa Women's University, Kodaikanal, Tamilnadu, September 20, 2016.
5. The Effect of Initial Concentration of Methylene Blue Dye on the Photocatalytic Activity of Ag-N Co-doped ZnO Nanorods Under Sunlight Irradiations
   Tesfay Welderfael, Manjunatha Pattabi, Rani M. Pattabi,
   Proc. Of International conference on Recent Advances in Materials Science and Biophysics (RAMSB) - 2018, Department of Studies in Physics, Mangalore University, Mangalore, Karnataka, ISBN 978-93-5291-953-6, pg.136
6. Dielectric behavior and AC conductivity of low loaded polyaniline emeraldine base - Biopolymer Nanocomposite
   P. Praveen, Manjunatha Pattabi, Rani M. Pattabi, Vijayalakshmi Rao
   AIP Conference Proceedings 2162, 020030 (2019); https://doi.org/10.1063/1.5130240

National

1. Au Nanoparticulate Films for Vapour Sensing, Presented at National conference on Thin Film Materials and Devices (NCTMD-2008) May 2-3, 2008 at National Institute of Technology Karnataka, Surathkal, Mangalore 575025

Impact of publications in terms of

h-index: 6

i10 index: 4

Awards / Fellowship / Recognition (Specify)(if applicable): DST Women Scientist (WOS-A)

Membership of Professional Bodies: Life Member of Indian Association of Physics Teachers (IAPT)