

## CURRICULUM VITAE



**Name** : **DR. GOBINDA PRASAD SAHOO**  
**Designation** : **Assistant Professor**  
**Department of Chemistry**  
**Midnapore College (Autonomous)**  
**Midnapore- 721101, W.B**

**Education Qualification** : **M.Sc., Ph. D on "SYNTHESIS OF MORPHOLOGICALLY INTERESTING LOW DIMENSIONAL MATERIALS AND TO STUDY THEIR PHOTO PHYSICAL AND CATALYTIC PROPERTIES"**  
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➤ **Area of Teaching:**

- i) Organic Chemistry
- ii) Industrial Chemistry
- iii) Nanoscience & Technology
- iv) Supramolecular Chemistry
- v) Environmental Chemistry

➤ **List of research papers published in National/ International journals:**

- i)** S Maity, M Shyamal, D Das, P Mazumdar, GP Sahoo, A Misra. Aggregation induced emission enhancement from antipyrine-based Schiff base and its selective sensing towards picric acid, Sensors and Actuators B: Chemical, 248, (2017) 223-233.
- ii)** M Shyamal, S Maity, P Mazumdar, GP Sahoo, R Maity, A Misra, Synthesis of an efficient Pyrene based AIE active functional material for selective sensing of 2, 4, 6-trinitrophenol., Journal of Photochemistry and Photobiology A: Chemistry, 342, (2017) 1-14
- iii)** M Shyamal, P Mazumdar, S Maity, S Samanta, G P. Sahoo, A Misra. Highly Selective Turn-On Fluorogenic Chemosensor for Robust Quantification of Zn(II) Based on Aggregation Induced Emission Enhancement Feature, ACS Sensor, 1 (6), (2016) 739-747.
- iv)** M Shyamal, P Mazumdar, S Maity, GP Sahoo, G Salgado-Moran, A Misra, Pyrene Scaffold as Real Time Fluorescent Turn-on Chemosensor for Selective Detection of Trace Level

- Al (III) and Its Aggregation Induced Emission Enhancement, *J. Phys. Chem. A*, 120 (2), (2016) 210–220.
- v) P Mazumdar, S Maity, M Shyamal, D Das, G P Sahoo, A Misra, Proton triggered emission and selective sensing of picric acid by the fluorescent aggregates of 6, 7-dimethyl-2, 3-bis-(2-pyridyl)-quinoxaline, *Physical Chemistry Chemical Physics*, 18, (2016) 7055-7067.
- vi) A Maity, P Mazumdar, S Samanta, D Das, M Shyamal, GP Sahoo, A Misra, Morphology directing synthesis of 1-aminopyrene microstructures and its super quenching effect towards nitro aromatics, *Journal of Molecular Liquids*, 221 (2016) 358–367
- vii) S Maity, P Mazumdar, M Shyamal, GP Sahoo, A Misra, Crystal induced phosphorescence from Benz (a) anthracene microcrystals at room temperature, *Spectrochimica Acta Part A*, (2016) 157, 61-68.
- viii) S Maity, M Shyamal, P Mazumdar, GP Sahoo, R Maity, G Salgado-Morán, Ajay Misra, Solvatochromism and turn-off fluorescence sensing property of N, N'-bis (3-pentyl) perylene-3, 4, 9, 10-bis (dicarboximide) towards nitroaromatics and photophysical study of its microstructures., *Journal of Molecular Liquids*, 224, (2016) 255-264
- ix) P. Mazumdar, D. Das, G. P. Sahoo, G. Salgado-Moran and A. Misra, Aggregation induced emission enhancement of 4, 4'-Bis (diethyl amino) benzophenone with an exceptionally large blue shift and its potential use as glucose sensor, *Physical Chemistry Chemical Physics*, 17 (5), (2015) 3343-3354.
- x) P. Mazumdar, D. Das, G. P. Sahoo, G. Salgado-Moran and A. Misra,, Aggregation induced emission enhancement of 4, 4'-Bis (diethyl amino) benzophenone with an exceptionally large blue shift and its potential use as glucose sensor, *Physical Chemistry Chemical Physics*, 17 (5), (2015) 3343-3354.
- xi) GP Sahoo, S Basu, S Samanta, A Misra, Microwave-assisted synthesis of anisotropic gold nanocrystals in polymer matrix and their catalytic activities, *Journal of Experimental Nanoscience, International journals*, 10 (9), 690-702, 2015.
- xii) GP Sahoo, S Samanta, DK Bhui, S Pyne, A Maity, A Misra, Hydrothermal synthesis of hexagonal ZnO microstructures in HPMC polymer matrix and their catalytic activities, *Journal of Molecular Liquids*, 212, 665-670, 2015.
- xiii) D Das, GP Sahoo, P Mazumdar, A Maity, D Chattopadhyay,GS Moran and A Misra, Morphology directing synthesis of benzo [a] pyrene microstructures and their photo physical properties, *Journal of Molecular Liquids*, 206, 47-55, 2015.
- xiv) G.P. Sahoo, D. Das, P. S. Sheet, H. Beg, G. Salgado-Moran and A. Misra, Morphology directing synthesis of 1-pyrene carboxaldehyde microstructures and their photo physical properties, *RSC Advances*, 4 (2014) 10903-10911
- xv) G. P. Sahoo, D. Bhui, D. Das and A. Misra. Synthesis of anisotropic gold nanoparticles

and their catalytic activities of breaking azo bond in sudan-1, *Journal of Molecular Liquids*, 198 (2014) 215-222

- xvi)** P. Mazumdar, D. Das, G. P. Sahoo, G. Salgado-Moran and A. Misra, Aggregation induced emission enhancement from Bathophenanthroline microstructures and its potential use as sensor of mercury ions in water, *Physical Chemistry Chemical Physics*, 16 (2014) 6283-6293
- xvii)** S. Pyne, G. P. Sahoo, D. K. Bhui, H. Bar, P. Sarkar, S. Samanta, A. Maity and A. Misra., Enhanced Photocatalytic activity of metal coated ZnO nanowires, *Spectrochimica Acta Part A*, 93 (2012) 100-105,
- xviii)** S. Samanta, P. Sarkar, S. Pyne, G. P. Sahoo, H. Bar, D. K. Bhui and A. Misra, Synthesis of silver nanodisk and nanotriangle in PVP matrix: Photophysical study and simulation of UV-vis extinction spectra using DDA method, *J. Molecular Liquids*, 165 (2012) 21-26
- xix)** H. Bar, D.K. Bhui, G. P. Sahoo, P. Sarkar, S. Pyne, D. Chattopadhyaya, A. Misra, Synthesis of gold nanoparticles of variable morphologies using aqueous leaf extracts of *Cocculus hirsutus*, *J. Experimental Nanoscience*, 7 (2012) 109-119
- xx)** S. Pyne, G. P. Sahoo, D. K. Bhui, H. Bar, P. Sarkar, A. Maity and A. Misra, FRET based ultra sensor for detection of Hg (II) in water: A comparative study using citrate and mercapto propanoic acid as stabilizer of AuNPs, *Sensors & Actuators: B. Chemical*, 160 (2011) 1141-1148
- xxi)** P. Sarkar, S. Pyne, G. P. Sahoo, D. K. Bhui, H. Bar, S. Samanta, and A. Misra, Solution-phase synthesis of silver nanodiscs in HPMC-matrix and simulation of UV-Vis extinction spectra using DDA based method, *Spectrochimica Acta Part A*, 82 (2011) 368-374
- xxii)** S. Pyne, P. Sarkar, S. Basu, G. P. Sahoo, D. K. Bhui, H. Bar, A. Misra, Synthesis and Photo physical properties of Au @ Ag (core @ shell) nanoparticles disperse in poly vinyl alcohol matrix, *J. Nanoparticle Research*, 13 (2011) 1759-1767
- xxiii)** D.K. Bhui, S. Pyne, P. Sarkar, H. Bar, G.P. Sahoo and A. Misra, Temperature controlled synthesis of silver nanostructures of variable morphologies in aqueous methyl cellulose matrix, *J. Molecular Liquids*, 158 (2011) 170-174
- xxiv)** G. P. Sahoo, H. Bar, D.K. Bhui, P. Sarkar, S. Samanta, S. Pyne, S. Ash, A. Misra, Synthesis and photo physical properties of star shaped gold nanoparticles, *Colloids and Surfaces A: Physicochem. Eng. Aspects*, 375 (2011) 30-34
- xxv)** G. P. Sahoo, H. Bar, D.K. Bhui, P. Sarkar, S. Samanta, S. Pyne, S. Ash, A. Misra, Synthesis and photo physical properties of star shaped gold nanoparticles, *Colloids and Surfaces A: Physicochem. Eng. Aspects.*, 375 (2011) 30-34
- xxvi)** P. Sarkar, D. K. Bhui, H. Bar, G. P. Sahoo, S. Samanta, S. Pyne and A., DDA-Based Simulation of UV-vis Extinction Spectra of Ag Nanorods Synthesized Through Seed-

Mediated Growth Process, Plasmonics, 6 (2011) 43-51

- xxvii)** S. Samanta, S. Pyne, P. Sarkar, G. P. Sahoo, H. Bar, D. K. Bhui, A. Misra, Synthesis of silver nanostructures of varying morphology through seed mediated growth approach, J. Molecular Liquids, 153 (2010) 170–173.
- xxviii)** G. P. Sahoo, D.K. Bhui, H. Bar, P. Sarkar, S. Samanta, S. Pyne, A. Misra, Synthesis and characterization of gold nanoparticles adsorbed in methyl cellulose micro fibrils, J. Molecular Liquids, 155 (2010) 91–95
- xxix)** P. Sarkar, D. K. Bhui, H. Bar, G. P. Sahoo, S. Samanta, S. Pyne and A. Misra, Aqueous phase synthesis of silver nanodisks and nanorods in methyl cellulose matrix: Photophysical study and simulation of UV-vis extinction spectra using DDA method, Nanoscale Research Letter, 5 (2010) 1611–1618
- xxx)** H. Bar, D.K. Bhui, G.P.Sahoo, P. Sarkar. S. Pyne, A. Misra, Green synthesis of silver nanoparticles using seed extract of Jatropha Curcas, Colloids and Surfaces A: Physicochem. Eng. Aspects, 348 (2009) 212–216
- xxxi)** H. Bar, D.K. Bhui, G.P.Sahoo, P. Sarkar. S. P. De, A. Misra, Green synthesis of silver nanoparticles using latex of Jatropha curcas, Colloids and Surfaces A: Physicochem. Eng. Aspects, 339 (2009) 134–139
- xxxii)** P. Sarkar, D.K. Bhui, H. Bar, G. P. Sahoo, S. P. De, A. Misra, Synthesis and photophysical study of silver nanoparticles stabilized by unsaturated dicarboxylates, Journal of Luminescence, 129 (2009) 704–709
- xxxiii)** D.K. Bhui, H. Bar, P. Sarkar, G. P. Sahoo, S. P. De, A. Misra, Synthesis and UV-vis spectroscopic study of silver nanoparticles in aqueous SDS solution, Journal of Molecular Liquids -, 145 (2009) 33–37
- xxxiv)** S.P. De, S. Ash, D.K. Bhui, H. Bar, P. Sarkar, G. P. Sahoo, A. Misra, DFT based computational study on the excited state intramolecular proton transfer processes in o-hydroxybenzaldehyde, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 71 (2009) 1728-1735

➤ **Papers presented in Conferences, Seminars, Workshops, Symposia:**

- i) Poster presentation in “International Conference on Emerging Materials” in 20<sup>th</sup> to 21<sup>st</sup> April 2017 at Vidyasagar University.
- ii) Poster presentation in “National Symposium on Natural Resource management-2017 in 15-16<sup>th</sup> march” at Vidyasagar University.
- iii) Poster presentation in “National Symposium on Frontiers in Chemical Science-2016 and Food Processing, Preservation and Packaging 1422 in 29<sup>th</sup> February-1<sup>st</sup> march” at Vidyasagar University.
- iv) Poster presentation in “Two Day National Symposium on Food Processing, Preservation and Packaging -2015 in 17-18<sup>th</sup> march” at Vidyasagar University.

- v) Poster presentation in “International Symposium on Frontiers in Chemical Science-2014 in 13<sup>th</sup> August” at Vidyasagar University.
- vi) Poster presentation in “National Symposium on Frontiers in Chemical Science-2013 in 25-26<sup>th</sup> march” at Vidyasagar University.
- vii) Poster presentation in International Symposium on Frontiers in Chemical Sciences. Chemistry department, Vidyasagar University, Midnapore (21<sup>st</sup> March 2012).
- viii) Poster presentation in UGC Supported National Seminar on “Recent Trends in Research and Teaching in Chemical Sciences” Department of chemistry, Panskura Banamali college, Panskura, Purba Midnapore (17<sup>th</sup> & 18<sup>th</sup> January 2012).
- ix) Poster presentation in National Symposium on Frontiers in Chemical Sciences 2011, Chemistry department, Vidyasagar University, Midnapore (13<sup>th</sup> March 2011).

➤ **Ongoing Projects/Consultancies :**

Name of the Department	Title of the Project	Funding Agency	Amount sanctioned in Rupees	Sanctioned year	Current status of the project
Chemistry	Synthesis of low dimensional materials and their uses as sensing for metal ion and electrical device	UGC Minor	4.06 Lakhs	2015-17	Ongoing

➤ **Associated with any other Organization:**

- i) **Life member of Indian Chemical Society**
- ii) **Life member of Association of Chemistry Teachers**

➤ **Research Interest:**

- i) Organic synthesis and development of sensor device.
- ii) Shape controlled low dimensional material synthesis and catalytic application.
- iii) Proton transfer in organic molecule.

➤ **Other Activities:**

- i) Guest faculty in chemistry and environmental science department, DDE, Vidyasagar University.