



## Dr. Sutanuka Pattanayak, M.Sc., Ph. D.

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Dr. Sutanuka Pattanayak joined Department of Chemistry, Rishi Bankim Chandra College for Women in the year 2017. She obtained B.Sc. from Bethune College, University of Calcutta and M.Sc. from the West Bengal State University. Her doctoral research is on "*Photophysical and Photochemical Studies of the Interactions among Molecules with Chemical and Biological Significance with Application to Metal Nanoparticle Systems*" and was awarded Ph.D. degree by the West Bengal State University in 2018.

### Publications:

1. *Modulation of morphology and efficacy of new CB1 receptor antagonist using simple and benign polymeric additives*; K. Banerjeea, D.R. Patel, A. Kulshrestha, D. Joshipurab, A. Joharapurkar, K. Ghoshdastidar, M.R. Jain, B.K. Srivastava, M. Chakraborty, **Sutanuka Pattanayak** and A. Ballabh, *Indian Journal of Chemistry*, 2021, **60B**, 1014-1021.
2. *Studies on green synthesized silver nanoparticles using Abelmoschus esculentus (L.) pulp extract having anticancer (in vitro) and antimicrobial applications*; Md. M.R. Mollick, S.K. Dash, S. Chattopadhyay, D. Rana, B. Bhowmick, D. Maity, D. Mondal, **Sutanuka Pattanayak**, S. Roy, M. Chakraborty and D. Chattopadhyay, *Arabian journal of chemistry*, 2019, **12**(8), 2572-2584.
3. *Biosurfactant tailored synthesis of porous polypyrrole nanostructures: A facile approach towards CO<sub>2</sub> adsorption and dopamine sensing*; A. Adhikari, S. De, A. Halder, **Sutanuka Pattanayak**, K. Dutta, D. Mondal, D. Rana, R. Ghosh, N.K. Bera, S. Chattopadhyay, M. Chakraborty, D. Ghoshal and D. Chattopadhyay, *Synthetic Metals*, 2018, **245**, 209-222.
4. *Degradation of Methyl Parathion, a common pesticide and Fluorescence quenching of Rhodamine B, a carcinogen using β-D glucan stabilized Gold nanoparticles*; **Sutanuka Pattanayak**, S. Chakraborty, S. Biswas, D. Chattopadhyay and M. Chakraborty, *Journal of Saudi Chemical Society*, 2018, **22**(8), 937-948.
5. *In-situ Fluorescence of Lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study*; **Sutanuka Pattanayak**, S. Chakraborty, Md. M.R. Mollick, I. Roy, S. Basu, D. Rana, D. Chattopadhyay and M. Chakraborty, *New Journal of Chemistry*, 2016, **40**(8), 7121-7131.
6. *Butea monosperma bark extract mediated green synthesis of silver nanoparticles: Characterization and biomedical applicatons*; **Sutanuka Pattanayak**, Md. M.R. Mollick, D. Maity, S. Chakraborty, S.K. Dash, S. Chattopadhyay, S. Roy, D. Chattopadhyay and M. Chakraborty, *Journal of Saudi Chemical Society*, 2017, **21**(6), 673-684.
7. *First Time Synthesis, Characterization And Synergistic Photocatalytic Effect Of GO/Bi<sub>2</sub>O<sub>3</sub>/Nb<sub>2</sub>O<sub>5</sub> Nanocomposites*; T.K. Ghorai, S. Sikdar, S. Das, S. Pathak, **Sutanuka Pattanayak** and N. Biswas, *Materials Today: Proceedings*, 2018, **5**(3), 9760-9770.
8. *Photocatalytic degradation of rhodamine B in water by visible light irradiated BMZ nanocomposite*; S. Sikdar, **Sutanuka Pattanayak** and T.K. Ghorai, *Advanced Materials*

*Proceedings*, 2017, **2**(2), 107-112.

9. *Green one step morphosynthesis of silver nanoparticles and their antibacterial and anticancerous activities*; D. Maity, **Sutanuka Pattanayak**, Md.M.R. Mollick, D. Mondal, B. Bhowmick, S.K. Dash, S. Chattopadhyay, B. Das, S. Roy, M. Chakraborty and D. Chattopadhyay, *New Journal of Chemistry*, 2016, **40**, 2749-2762.
10. *Dextrin-mediated facile synthesis of AgNPs for Colorimetric assays of Cu<sup>2+</sup> ion detection and AuNPs for catalytic reduction of 4-nitrophenol*; K. Bankura, D. Rana, Md.M.R. Mollick, **Sutanuka Pattanayak**, B. Bhowmick, N.R. Saha, I. Roy, T. Midya, G. Barman and D. Chattopadhyay, *International Journal of Biological Macromolecules*, 2015, **80**, 309-316.
11. *Physical and electrochemical characterization of reduced graphene oxide/silver (RGO/Ag) nanocomposite synthesized by adopting green approach*; I. Roy, D. Rana, G. Sarkar, A. Bhattacharyya, N.R. Saha, **Sutanuka Pattanayak**, S. Mondal, S. Chattopadhyay and D. Chattopadhyay, *RSC Advances*, 2015, **5**, 25357-25364.