

Short CV

Name: Dr. Swadhin Kumar Saha

Designation: Assistant Professor

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- Qualifications:

Graduation: Visva-Bharati, Year: 2008

Post Graduation: Visva-Bharati, Year: 2010

Doctoral: Visva-Bharati, Year: 2016

- Experience:

Postdoctoral: National Postdoctoral Fellow (NPDF) From July 2017 to April 2018 in the Department of Chemistry, The University of Burdwan

Teaching experience: From April 2018

Area of Interest: Polymer-Nanocomposites and Biological applications of Nanomaterials

Research: Number of publications: 15, h-index: 11, i-10 index: 11

Fellowships/Awards: Rajiv Gandhi National Fellowship (RGNF), National Postdoctoral Fellowship (NPDF), NET

- Selected Publications:

1. A New Lysosome Targetable Turn-On Fluorogenic Probe for Carbon Monoxide Imaging in Living Cells, K. Dhara, S. Lohar, A. Patra, P. Roy, **S. K. Saha**, G. C. Sadhukhan, P. Chattopadhyay, *Analytical Chemistry* 90 (4) (2018) 2933–2938.
2. Exploration of antifilarial activity of gold nanoparticle against human parasite: A nanomedicinal mechanistic approach, P. Roy, **S. K. Saha** P. Gayen, P. Chowdhury, S. P. Sinha Babu, *Colloids and Surfaces B: Biointerfaces* 161 (2018) 236–243.
3. Development of chitosan based gold nanomaterial as an efficient antifilarial agent: A mechanistic approach, **S. K. Saha**, P. Roy, M. K. Mondal, D. Roy, P. Gayen, P. Chowdhury, S. P. Sinha Babu, *Carbohydrate Polymers* 157 (2017) 1666-1676.

4. Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth, M. K. Mondal, S. Mukherjee, **S. K. Saha**, P. Chowdhury, S. P. Sinha Babu, *Materials and Engineering C* 75 (2017) 1168-1177.
5. Carbohydrate polymer inspired silver nanoparticles for filaricidal and mosquitocidal activities: A comprehensive view, S. K. Saha, P. Roy, P. Saini, M. K. Mondal, P. Chowdhury, S. P. Sinha Babu, *Carbohydrate Polymers* 137 (2016) 390–401.
6. Evidence of reactive oxygen species (ROS) mediated apoptosis in *Setaria cervi* induced by green silver nanoparticles from *Acacia auriculiformis* at a very low dose, P. Saini, **S. K. Saha**, P. Roy, P. Chowdhury, S. P. Sinha Babu, *Experimental Parasitology* 160 (2016) 39-48.
7. Selective reduction technique (SRT): a robust method to synthesize bioactive Ag/Au doped graphene oxide, M. K. Mondal, P. P. Banerjee, **S. K. Saha**, P. Chowdhury, A. Bandyopadhyay, S. Bhattacharya, A. Chattopadhyay, *Materials and Design* 102 (2016) 186–195.
8. Biocompatibility of sonochemically synthesized poly(N-isopropyl acrylamide)/silica nanocomposite, S. K. Saha, S. Das, P. Chowdhury, S. K. Saha, *RSC Advances* 4 (2014) 14457–14467.
9. Ultrasound assisted green synthesis of poly(vinyl alcohol) capped silver nanoparticles for the study of its antifilarial efficacy, S. K. Saha, P. Chowdhury, P. Saini, S. P. Sinha Babu, *Applied Surface Science* 288 (2014) 625– 632.
10. Chemical and biochemical activities of sonochemically synthesized poly(N-isopropyl acrylamide)/silica nanocomposite, P. Chowdhury, **S. K. Saha**, A. Guha, S. K. Saha, *Applied Surface Science* 261 (2012) 598– 604.