

Samik Saha

21, RakhalRaj Biswas Road, Golapotty, Krishnagar, Nadia, WestBengal.

e-mail: samik.saha.work@gmail.com

Mobile: +919932392974

Designation:

Assistant Professor in Physics in W.B.E.S
(14th September, 2020 - till date)

Office Address:

Government General Degree College, Dantan-II, Paschim Medinipur-721445.

Educational Qualifications:

PhD. (Physics)	Jadavpur University	Ongoing
M. Sc. (Physics)	IIT Kharagpur, Kharagpur India	2013-2015
B. Sc. (Physics)	University of Kalyani, Kalyani, India	2010-2013

Academic achievement:

- Joint Admission Test for M.Sc. (JAM-2013) (All India Rank-19)
- Joint Entrance Screening Test (JEST-2015) (All India Rank - 68)
- National Eligibility Test (**NET**) (June-2014, Dec-2014, June-2015).

Research Interests:

- Energy storage devices, energy conversions, NPs polymer composites, Metal-oxides for energy storage and conversions.

Publication Details:

1. Rotary-Jet spin assisted fabrication of MnO₂ microfiber for supercapacitor electrode application, **S Saha**, P Sadhukhan, SR Chowdhury, S Das, **Materials Letters**, (2020) 128342
2. Effect of particle morphology on the electrochemical performance of hydrothermally synthesized NiMn₂O₄, **S Saha**, A Roy, A Ray, T Das, M Nandi, B Ghosh, **S Das**, **Electrochimica Acta**, 353 (2020) 136515
3. Temperature and frequency dependent dielectric relaxation of Ni-Fe-Oxide nanocomposites" A. Ray, P. Maji, A. Roy, **S. Saha**, P. Sadhukhan, S. Pujaru, P. Sengupta, Yasnur Sk. and S.N. Das, **Material Research Express**, 6 (2020) 12
4. Advanced asymmetric supercapacitor with NiCo₂O₄ nanoparticles and nanowires electrodes: A comparative morphological hierarchy, M. Chatterjee, **S. Saha**, S. Das, S. K. Pradhan, **Journal of Alloys and Compounds**, 821 (2020) 153503

5. Temperature and frequency dependent dielectric relaxation of Ni-Fe-Oxide nanocomposites, A Ray, P Maji, A Roy, **S Saha**, P Sadhukhan, S Das, **Materials Research Express** 6 (12), 1250h4
6. Effect of Morphological Ordering on the Electrochemical Performance of MnO₂-GO composite, **Samik Saha**, Prasenjit Maji, Dattatray A. Pethsangave, Atanu Roy, Apurba Ray, Surajit Some, Sachindranath Das, **Electrochimica Acta** 317 (2019) 199-210.
7. Electrochemical Energy Storage Properties of Ni-Mn-Oxide Electrodes for Advance Asymmetric Supercapacitor Application: Apurba Ray, Atanu Roy, **Samik Saha**, Monalisa Ghosh, Sreya Roy Chowdhury, T. Maiyalagan, Swapan Kumar Bhattacharya, and Sachindranath Das, **Langmuir** 35 (2019), 8257–8267
8. Study on charge storage mechanism in working electrodes fabricated by sol-gel derived spinel NiMn₂O₄ nanoparticles for supercapacitor application; A.Ray, A.Roy, M.Ghosh, J.A. Ramos-Ramón, **S. Saha**, U.Pal, S.K.Bhattacharya, S. N. Das, **Applied Surface Science** 463 (2019) 513-525
9. NiO-CNT composite for high performance supercapacitor electrode and oxygen evolution reaction, Atanu Roy, Apurba Ray, **Samik Saha**, Monalisa Ghosh, Trisha Das, Biswarup Satpati, Mahasweta Nandi, Sachindranath Das, **Electrochimica Acta**, 283 (2018) 327-337
10. Investigation on energy storage and conversion properties of multifunctional PANI-MWCNT composite, Atanu Roy, Apurba Ray, **Samik Saha**, Sachindranath Das, **International Journal of Hydrogen Energy**, 43 (2018) 7128-7139.
11. Morphological behaviour, electronic bond formation and electrochemical performance study of V₂O₅-Polyaniline composite and its application in asymmetric supercapacitor, Atanu Roy, Apurba Ray, Priyabrata Sadhukhan, **Samik Saha** and Sachindranath Das, **Materials Research Bulletin** 107 (2018) 379-390.

- [Book Chapters:](#)

1. “Transition Metal Oxide-Based Nano-materials for Energy Storage Application” A. Ray, A. Roy, **S. Saha**, S. Das, *Science, Technology and Advanced Application of Supercapacitors*, InTechOpen, 2018, Nov 5.
2. “Ni-Based Electrocatalyst for Full Water Splitting” Atanu Roy, **Samik Saha**, Apurba Ray, Sachindranath Das, *Electrochemical Water Splitting*, Materials Research Foundations, Vol. 59, pp 125-140, 2019.
3. “Nanomaterials in thin-film form for new generation energy storage device applications”, **S Saha** and S N Das, *Chemical Solution Synthesis for Materials Design and Thin Film Device Applications*, Elsevier, 2021.