

Name: Dr. Sourav Bhattacharya



Department: Basic Sc. and Humanities (CSE)

Contact Nos.: 9836017349

Qualifications: M.Sc , Ph.D.

Designation: Assistant Professor

VIDWAN ID: 236540

Experience (Teaching / Research / Industry, in years): 5

Date of Joining at the Present Institution: 01/09/2021

Examinations Cleared: NET-CSIR , SET and GATE

Qualifications Summary (Reverse chronological order):

Degree	Institute	From - To	Subjects
Ph.D	IISER-Kolkata	2007-2015	Synthetic Polymer Chemistry
M.Sc	IIT, Bombay	2004-2006	Organic Chemistry
B.SC	Calcutta University	2000-2004	Chemistry Honours

Experience Summary (In chronological order):

Designation	Organization	Date From - Date To
Research Associate	ADO Additives Mfg. Pvt. Limited in-collaboration with IISER-Kolkata	2015 to 2016 December
Post Doctoral Fellow	Calcutta University	2016 to 2017
Guest Faculty	Rabindra Mahavidyalaya	2017 to 2019
Post Doctoral Fellow	The University of Burdwan	2019 to 2020 March
Assistant Professor	Dr. BC Roy Engineering College	2021, September to till date

Specialization/Research Interest: Nanomaterials, Polymer composite, Polymer-based drug-delivery, Poisonous metal sensing and removing

Awards & Recognitions

Best paper/ scholarship/Position in university exam / awards while at industry/ other organizations etc. :

2016 : Selected for DS Kothari Postdoctoral Fellowship

2016 : Runner-Up for 6TH NATIONAL AWARD FOR TECHNOLOGY INNOVATION under the Polymeric Materials category.

2012 : Selected for the Best poster award in RAPT , Calcutta University (23 rd January, 2014).

2007: Awarded Senior Research Fellowship (SRF) from CSIR, New Delhi.

2008 : Qualified GATE (Graduate Aptitude test, 2008).

2007 : Qualified SET (State Eligibility Test), December-2007

2007 : Qualified NET (National Eligibility Test, CSIR, JRF), December-2007,

2004: Qualified to JAM and ranked 64.

Courses taught: B.Tech: Specify the name of the subject/s (Theory first and then practical)

Molecular Spectroscopy in Rabindra Mahavidyalaya

Chemistry-1: BSCH-101

Chemistry-1 Lab: BSCH-191

Environmental Science: MC-381

Online Mode of Teaching:

The Faculty member needs to specify the online teaching/ assessment method adopted. (Link to any faculty created resources for Lecture notes / PPT/ Video Lecture etc. in Google Drive / Weblink etc).

Online Teaching/assessment Method	Meeting Link and Date	Lecture notes Drive Link/ Meeting Link
Google meet	https://meet.google.com/gdp-wyny-yhd 30/10/2021	https://drive.google.com/file/d/1EIXVEAf9efKb6wnoEXwdh7HjG43SAo5n/view?usp=sharing
Google Meet	Google Meet Video call link: https://meet.google.com/tph-wdkp-cgx 27/10/2021	https://drive.google.com/file/d/1zC0IOjZIF3pPIvD77bz9eaJ_ir2cz29W/view?usp=sharing

Publications:

Journal:

Name of the authors as appeared in the paper (**Make bold font for own name**), "Title of the paper", "Name of the Journal", Year of Publication, Volume No, Issue No, Page No, ISBN/ISSN number

1. Jana, A. K.; De, S. R.; Ray, S; **Bhattacharya, S.**; Mal, D. DBU-MeI, a potential substitute for CH₂N₂ for the preparation of methyl esters: Studies with assorted carboxylic acids, *Synthetic Communication*, **2008**, 3, 3937-3946. ISSN: 0039-7911 print, 1532-2432 online.
DOI: 10.1080/00397910802238809
2. **S. Bhattacharya**, V. N. Rao, S. Sarkar and R. Shunmugam. "Unusual Emission from Norbornene Derived Phosphonate Ester - A Sensor for Fe (III)" *Nanoscale*, **2012**, 4, 6962-6966. (A luminogen without a conventional chromophore"- **By ACS Noteworthy Chemistry, Dec 17th, 2012.**) ISSN Number: 2040-3372. DOI: 10.1039/c2nr32391e
3. **S. Bhattacharya**, S. Sarkar and R. Shunmugam. "In field sensing and removing of As (III) by norbornene-rhodamine based homopolymer" *J. Mater. Chem. A*, 2013, 1, 8398-8405 (**appeared as back-cover page**) ISSN Number: 2050-7488. DOI: 10.1039/c3ta11587a
4. **S. Bhattacharya**, R. Shunmugam. "Unique norbornene based triazole molecule for selective Fe(II) sensing", *RSC Adv.*, **2015**, 5, 74973-74976. ISSN Number: 2046-2069.
DOI: 10.1039/c5ra11342c.
5. Ganivada, M. N.; Rao, V. N; Kumar, P.; **Bhattacharya, S.**; Shunmugam R. "Efficient Approach to Produce Multi-functional Copolymers for Effective DNA Binding". *Polymers for Advances Technologies*, ISSN Number: 1099-1581. DOI: 10.1002/pat.3884.
6. **S. Bhattacharya**. SBR-Latex: A New Avenue for Cement Concrete, P.Q.C & Cement Mortar in Construction Industry,. *Civil Engineering and construction review*, 29, July 2016, 90-91. ISSN Number: 0975-9034.
7. **S. Bhattacharya**, R. Shunmugam. "Metal assisted self-assembled rod like nanostructures for effective cellular internalization" *Polym. Chem.*, 2018, 9, 2157-2165. ISSN Number: 1759-9962. DOI: 10.1039/c7py01893b.

Book Chapter:

Name of the author /s (**Make bold font for own name**) "Title of the Chapter", "Page no. of the Chapter", "Title of the Book", "Name of the Publisher", Year of Publication. ISBN Number (Print / Online)

1. Sarkar S., **Bhattacharya, S.** and Shunmugam R., "Polynorbornene based sensors for "in-field" heavy metal and nerve agent sensing applications" edited by Raja Shunmugam, CRC press, Taylor and Francis publisher, Taylor and Francis publisher, 2016. ISBN 978-1-77188-297-2.

Patent Applied:

1. Unique norbornene polymer based "in-field" sensor for As(III); **Sourav Bhattacharya**, Santu Sarkar and Raja Shunmugam* PCT/IB2015/051113. (International Patent)

Participation in seminar/conference/symposium/workshop/discussion meeting:

1. Poster presentation on "Synthesis and characterization of norbornene-based monomers for sensing As(III) & Fe(III). (IIT Kharagpur, 2011).
2. Poster presentation on "Synthesis and characterization of norbornene based material for sensing heavy metals." -Advances in Polymer Science & Nanotechnology: Design and Structure (*PSNDS-11*) at Applied Chemistry Department, M. S. Uni. Baroda, Gujarat 2011.
3. Poster presentation on "Designing Norbornene Derived Monomers and Polymers for sensing Applications" - Current Trends in Chemistry, *Tenth Symposium of CRSI Kolkata chapter*, at IISER-Kolkata 2012.
4. Poster presentation on "Designing thiol based Norbornene materials for sensing metal poisoning." *Polymer & Rubber Technology for 21st Century "PRC 2012"* at Centre for research in nanoscience and Nanotechnology, University Of Calcutta 2012.
5. Poster presentation on "Designing thiol based Norbornene materials for sensing metal poisoning." at *Bharti Vidhyapith University, Pune* 2012.
6. Poster presentation on "Designing norbornene based monomers & polymers for sensing Fe (III)" in 3rd FAPS polymer congress and *Macro 2013, from May 15 to 18 at IISC Bangalore*.

- 7 Poster presentation on “Unique norbornene based polymers for sensing & removing of As (III)” Recent Advances in Polymer & Rubber Science & Technology, RAPT 2014, Calcutta university (23- 25th January, 2014).
- 8 Poster presentation on International symposium on Polymer Science and Technology at Indian Association for the Cultivation of Science, Kolakata from 23 to 26th January in 2015.
- 9 Oral Presentation_“Presentation on Biomedical application of polymer”, during two weeks (25th June to 8th July 2006) summer school entitles “Frontier in polymer Chemistry” at IISC Bangalore (Inorganic and Physical Chemistry Department) DAAD sponsored.
- 10 Participated in intenational Webiner on social awareness and prevention against covid-19 and post-covid challenges on May 6-7, 2020, hosted by Basic Sc. And humanities, Dumka engineering college run by Techno-India.

Participation in faculty development programmes

Sl. No.	Name	Mode	From To	Duration	Year	Organised by
1	“Assessment and Utilization of Renewable Energy Resources”	Online	13.09.2021 to 17.09.2021	One Week	2021	AICTE-ATAL Academy

Membership of professional bodies:

- ✓ The Society for Polymer Science, (Calcutta Chapter) India. (Life Member, No.-49)