

CURRICULUM VITAE

Dr. Ipsita Kumar Sen, M.Sc., Ph.D.
Assistant Professor || Department of Chemistry

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Personal Details

Date of Birth: May 19, 1988
Nationality: Indian
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Educational Qualification

- Ph.D. in Chemistry (2016): Vidyasagar University, Midnapore, W.B.
Supervisor: Prof. Syed Sirajul Islam
- M.Sc. in Chemistry (2010): Vidyasagar University, Midnapore, W.B.
- B.Sc. in Chemistry (2008): Midnapore College, Vidyasagar University, Midnapore, W.B.

Awards

- Junior Research Fellowship (CSIR, AIR-40) in CSIR-UGC NET held in June, 2010.
- Silver Medal for securing 2nd rank in M.Sc. from Vidyasagar University in 2010.

Teaching Experience

- 20th March 2020 to present : Assistant Professor in Chemistry (WBES) at Govt. General Degree College, Salboni.
- 9th October 2017 to 19th March 2020 : Lecturer in Chemistry (WBS) at Sidhu Kanhu Birsa Polytechnic, Keshiary.

Areas of Research Interest

- Structural characterization of fungal and bacterial polysaccharides with the help of 2D-NMR spectroscopy and study of their biological activities.
- Synthesis of polysaccharide-based nanoparticles and study of their antibacterial activities against multiple drug resistant bacteria.
- Design of Low Molecular-Mass Organogelators (LMOGs) and study of their self-assembly properties.

Publications (Total 44 International)

BIBLIOMETRIC INDICATORS (Database GOOGLE SCHOLAR): Total citations = 2160, H-index = 28,
i 10-index=39

Recent Publications

2024

1. Multifunctional silver nanoparticle embedded eri silk cocoon scaffolds against burn wounds-associated infection, Paulami Dam, Shubhajit Shaw, Rittick Mondal, Joydeep Chakraborty, Trinankur Bhattacharjee, Ipsita Kumar Sen, Sanjeet Manna, Abdul Sadat, Supratim Suin, Hironmoy Sarkar, Yavuz Nuri Ertas, Amit Kumar Mandal, RSC advances 14 (37), 26723-26737. (**Impact factor: 3.9**)

2022

2. *A xylan from the fresh leaves of Piper betle: Structural characterization and studies of bioactive properties*, Sunil Kumar Bhanja, Prasenjit Maity, Dilip Rout, **Ipsita Kumar Sen**, Sukesh Patra, **Carbohydrate Polymers** 291 (2022) 119570. (**Impact factor: 10.7**)

2021

3. *A review on the plant extract mediated green syntheses of gold nanoparticles and its anti-microbial, anti-cancer and catalytic applications*, Shib Shankar Dash, **Ipsita Kumar Sen**, Sandeep Kumar Dash, **International Nano Letters** 12 (2022) 47–66. (**Impact factor: 4.05**)
4. *A review on antiviral and immunomodulatory polysaccharides from Indian medicinal plants, which may be beneficial to COVID-19 infected patients*, **Ipsita Kumar Sen**, Indranil Chakraborty, Amit Kumar Mandal, Sunil Kumar Bhanja, Sukesh Patra, Prasenjit Maity. **International Journal of Biological Macromolecules** 181 (2021) 462-470. (**Impact factor: 7.7**)
5. *Biologically active polysaccharide from edible mushrooms: A review*, Prasenjit Maity*, **Ipsita Kumar Sen***, Indranil Chakraborty*, Soumitra Mondal, Harekrishna Bar, Sunil Kumar Bhanja, Soumitra Mandal, Gajendra Nath Maity, **International Journal of Biological Macromolecules** 172 (2021) 408-417. (**Impact factor: 7.7**) (* contributed equally)
6. *Structural studies of immunomodulatory (1 → 3)-, (1 → 4)-α glucan from an edible mushroom Polyporus grammacephalus*, Sukesh Patra, Indranil Chakraborty, **Ipsita Kumar Sen**, Debosree Ghosh, Dilip Rout, Sunil Kumar Bhanja, **International Journal of Biological Macromolecules** 168 (2021) 649-655. (**Impact factor: 7.7**)

2020

7. *Traveler as a risk factor for migration of COVID-19 in India*, Indranil Chakraborty, **Ipsita K. Sen**, Soumitra Mondal, Harekrishna Bar, Abhijit Nayak, Sunil K. Bhanja, Prasenjit Maity, **Journal of Transport and Health**, 18 (2020) 100915. (**Impact factor: 3.26**)
8. *Structural characterization of a heteroglycan from an edible mushroom Termitomyces heimii*, Prasenjit Maity, Ashis K. Nandi, Manabendra Pattanayak, Dilip K. Manna, **Ipsita K. Sen**, Indranil Chakraborty, Sunil K. Bhanja, Atish K. Sahoo, Nibha Gupta, Syed S. Islam, **International Journal of Biological Macromolecules** 151 (2020) 305-311. (**Impact factor: 7.7**)

Patents

One patent has been **granted** with title “Carbon Nanoparticle composite and the process of manufacture thereof”, **IK Sen**, AK Mandal, M Hossain, AK Panda, MD Yilmaz, A Kati, DC Bhattacharya, Application no. - 201631020500, Agency- India, Date of Grant- 01/07/2020, Patent No. 340106