

CURRICULUM VITAE

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Personal Details

Date of Birth: May 19, 1988
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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 (WBSG) 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.
- Identification and 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 = 1558, H-index = 25, i 10-index=35

2022

1. *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: 10.72**)

2021

2. *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.
3. *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: 6.953**)

4. *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: 6.953**) (* contributed equally)
5. *Structural studies of immunomodulatory (1 → 3)-, (1 → 4)-α glucan from an edible mushroom *Polyporus gramocephalus**, 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: 6.953**)

2020

6. *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: 2.53**)
7. *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: 5.162**)

Publications before 2020: 37 Internationals

Patents

1. 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 (**IN Patent No 340106**).
2. One patent has been **filed** with title “Biogenic Ag nanoparticulate system involving *Morus indica* L. V1 leaf extract and it’s method of manufacture”, AK Mandal, S Some, A Bhumali, K Biswas, A Kumar, K Neogi, **IK Sen**, A Mandal, S Das, S Pradhan, S Dutta, PK Das Mohapatra, K Tiwary, I Ocoy, OL Franco, MD Yilmaz, IA Ince, A Kati (**IN Patent App 201931011330**).