

DR. SASADHAR MAJHI

Assistant Professor

M.Sc. (Chemistry); PhD (Chemistry)

Overview:

Dr. Sasadhar Majhi currently serves as an Assistant Professor of the department of chemistry (UG & PG department) of Triveni Devi Bhalotia College (Government Sponsored and Affiliated to The Kazi Nazrul University, Asansol, previously Affiliated to The Burdwan University), Raniganj, West Bengal, India. He started his professional career as an Assistant Lecturer at Patha-Bhavana, Visva-Bharati University (a Central University), Santiniketan, West Bengal. He earned his M.Phil in chemistry in 2009 and he also obtained Ph.D. from Visva-Bharati University under the supervision of Prof. Goutam Brahmachari (FRSC) in the area of natural products. His major research interests include the isolation and structural elucidation of natural products, semisynthetic derivatives, and biological activities.

Date of appointment to the present job: 29/04/2015

Academic background:

Dr. Sasadhar Majhi was born at Bharadanga Sherpur in the district of Murshidabad, West Bengal, India on December 31, 1971. He has passed madhyamik examination through Gaysabad Achala Vidyamandir. He received B.Sc. (Honours) degree in Chemistry in 1995 and M.Sc. (Organic specialization) in 1997, both from Visva-Bharati (a Central University, founded by Rabindranath Tagore, a Nobel laureate). Dr. Majhi received M.Phil in chemistry in 2009. He obtained Ph.D. in 2020 from Visva-Bharati University under the supervision of Prof. Goutam Brahmachari (FRSC), the Series Editor of the Elsevier Book Series Natural Product Drug Discovery. With more than fifteen years of teaching experience, Dr. Majhi has published several research papers in national and international journals of high reputation. He has also participated in various national and international conferences and symposia.

Information about M Phil/Ph D etc.:

PhD Topic: STUDIES ON PHYTOCHEMICAL CONSTITUENTS OF SOME TRADITIONALLY USED INDIAN MEDICINAL PLANTS: ISOLATION, STRUCTURAL ELUCIDATION AND CHEMISTRY

- (Weblink: https://drive.google.com/file/d/1bFFItrC_7ltqOLsmKQC9OboDIXgSToHJ/view?usp=sharing)

Area of present academic/ Research interest/ Research Projects & Schemes and Collaborations:

- **Research interest:** Research interests include the isolation and structural elucidation of natural products, semisynthetic derivatives, total synthesis and biological activities. (Web link: https://drive.google.com/file/d/1_qWNwP_R1fod1sMLuQXRW8TvNtOnU1J7/view?usp=sharing)

Publications:

- **Lupeol alters viability of SK-RC-45 (RCC cell line) by modulating its mitochondrial dynamics.** Krishnendu Sinha, Sayantani Chowdhury, Bhagirath Mandal, Mullicka Mandal, **Sasadhar Majhi**, Goutam Brahmachari, Sharmistha Banerjee, Jyotirmoy Ghosh, Parames C. Sil. *Heliyon* (Elsevier), **2019**, *5*, e021074.
Weblink: <https://pubmed.ncbi.nlm.nih.gov/31417967/>

- ❑ **Stigmasterol from the Flowers of *Peltophorum pterocarpum* (DC.) Backer ex K. Heyne (Fabaceae) — Isolation, Spectral Properties and Quantum Chemical Studies.** Goutam Brahmachari, **Sasadhar Majhi**, Bhagirath Mandal, Mullicka Mandal, Abhishek Kumar, Ambrish K Srivastava, Rajendra B. Singh and Neeraj Misra. *Journal of Indian Chemical Society*, **2018**, 95, 1-14.
 Weblink: https://www.researchgate.net/publication/330910952_Stigmasterol_from_the_flowers_of_Peltophorum_pterocarpum_DC_Backex_K_Heyne_Fabaceae_isolation_spectral_properties_and_quantum_chemical_studies
- ❑ **Neomangiferin: Semi-synthesis and antidiabetic potential.** **Sasadhar Majhi**. *Journal of Organic and Biomolecular Chemistry*, **2015**, 3, 34 - 37.
https://drive.google.com/file/d/1TejDtLNoECbgRfHcAux77_yPOPbPxAvt/view?usp=sharing
- ❑ ***Peltophorum Pterocarpum*: Chemical and Pharmacological Aspects.** Shyamal K. Jash , Raj K. Singh , **Sasadhar Majhi** , Atasi Sarkar and Dilip Gorai. *International Journal of Pharmaceutical Sciences and Research*, **2014**, 5, 26-36.
 Weblink: <https://ijpsr.com/bft-article/peltophorum-pterocarpum-chemical-and-pharmacological-aspects/?view=fulltext>
- ❑ **Chemical and pharmacological aspects of *Limnophila rugosa*: An update.** Dilip Gorai , Shyamal K. Jash , Raj K. Singh , Atasi Sarkar and **Sasadhar Majhi**. *International Journal of Natural Products Research*, **2013**, 3, 120-124.
- ❑ **Evaluation of Antimicrobial Potentiality of Two Flavonoids from *Limnophila* Plants.** Goutam Brahmachari, Narayan C. Mandal, Shyamal K. Jash, Rajiv Roy, Lalan C. Mandal, Arijit Mukhopadhyay, Biswajit Behera, **Sasadhar Majhi**, Avijit Mondal and Arindam Gangopadhyay. *Chemistry and Biodiversity*, **2011**, 8, 1139-1151.
 Weblink: <https://pubmed.ncbi.nlm.nih.gov/21674786/>
- ❑ **Lupeol, a pharmaceutically potent triterpenoid, from the ripe fruits of *Rauvolfia tetraphylla* L. (Apocynaceae).** Goutam Brahmachari, Lalan C. Mandal, Rajiv Roy, Shyamal K. Jash, Avijit Mondal, **Sasadhar Majhi** and Dilip Gorai. *Journal of Indian Chemical Society*, **2011**, 88, 303-305.
 Weblink: https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=201202209021507206
- ❑ **A new labdane diterpene from *Rauvolfia tetraphylla* Linn. (Apocynaceae).** Goutam Brahmachari, Lalan Ch. Mandal, Dilip Gorai, Avijit Mondal, Sajal Sarkar, **Sasadhar Majhi**. *Journal of Chemical Research*, **2011**, 35, 678-680.
 Weblink: <https://journals.sagepub.com/doi/abs/10.3184/174751911X13220462651507>

Seminars, Webinars and Conferences attended:

- ❑ **Isolation, spectral properties and quantum chemical studies of stigmasterol-a natural phytosterol isolated from a new source *Peltophorum pterocarpum*(Fabaceae).** **Sasadhar Majhi**, *International Seminar on "Advancements in Chemical sciences: Issues and challenges"*, February 4-5th 2020, Bidhan Chandra College, Asansol, Paschim Bardhaman, West Bengal, India, PP40.
<https://drive.google.com/file/d/14vK-VFjYshfbfjPogoMw63uUWWHiCOV/view?usp=sharing>
- ❑ **Stigmasterol from the flowers of *Peltophorum pterocarpum* (DC.) Backer ex K. Heyne (Fabaceae) — Isolation, spectral properties and quantum chemical studies.** **Sasadhar Majhi**, Neeraj Misra and

Goutam Brahmachari*, *International Conference on Chemistry for Human Development (ICCHD-2018)*, January 8-10th, 2018, Heritage Institute of Technology, Kolkata, W.B., India, P089.

https://drive.google.com/file/d/1-fC6xEzURubQqt0bwAaGsL2t_vwMS_JE/view?usp=sharing

- ❑ **Chemistry of Methyl 2,7-dihydroxy-1-methyl-6-oxo-6H-benzo[c]chromene-9-carboxylate: A New Natural Pigment from *Cassia sophera* Linn. (Caesalpiniaceae).** Sasadhar Majhi, Bhagirath Mandal and Goutam Brahmachari*, 5-6 April, 2018, National Seminar On Frontiers in Chemical Sciences (NSFCS-2018), Sponsored by SERB (Govt. of India), Trivenidevi Bhalotia College, Raniganj, W.B., PP6.
<https://drive.google.com/file/d/1xF2UmIboFPrpkeniu0x4cEviyeNCODW/view?usp=sharing>

- ❑ **Chemistry of stigmasterol - A bioactive natural phytosterol.** Sasadhar Majhi and Goutam Brahmachari*, *National Symposium on Recent Advances in Chemistry Research(RACR- 2018)*, 11th March, 2018, Dept. of Chemistry, Visva-Bharati, Santiniketan, W.B., India, P85.
https://drive.google.com/file/d/1_726Ar6t0RG-NPcaSpC1xoVDTDKiWEa-/view?usp=sharing

- ❑ **GC-MS analysis of *Cassia sophera* Linn.(Caesalpiniaceae) flower and root extracts and evaluation of their antimicrobial potential,** Sasadhar Majhi, Goutam Brahmachari*, *National Seminar on Recent Trends in Chemistry Research*, March 25-26, 2017, Dept. of Chemistry, Visva-Bharati, Santiniketan, W.B., India, P31.
<https://drive.google.com/file/d/1dMqIJzRCM-WearVjaZsv8dWNco6KxhcU/view?usp=sharing>

- ❑ **Isolation and Characterization of a Steroidal compound from *Peltophorum pterocarpum* (DC.) Backer ex K. Heyne (Fabaceae), an Indian Traditional Plant,** Sasadhar Majhi, Brahmachari*, *National Symposium on Recent Advances in Chemistry Research*, March 4th 2016, Dept. of Chemistry, Visva-Bharati, Santiniketan, W.B., India, P73.
https://drive.google.com/file/d/1JF2OfnuNjJU55J1QdvIY14svOrP4_Xbl/view?usp=sharing

- ❑ Professor Asima Chatterjee Centenary Seminar (PACCS-2018) on Recent Inventions in Chemical and allied Sciences, 23rd September, 2018, University of Calcutta, Kolkata, **Sasadhar Majhi**, Brahmachari*,
https://drive.google.com/file/d/1_726Ar6t0RG-NPcaSpC1xoVDTDKiWEa-/view?usp=sharing

- ❑ **Reliable Bioremediation of Hexavalent Chromium from wastewater Using Extract of *Peltophorum pterocarpum* flower as greener Biomass,** Sasadhar Majhi, Naba Kumar Mondal, **The Biggest Challenge of Green Chemistry: To Use its Rule in Practice**, 8th -9th October, 2015, Dept. of Chemistry, A.K.P.C. Mahavidyalaya, West Bengal, India, PP85.
<https://drive.google.com/file/d/1W2MKHAee3qnaYxnCv05keSIBJjNBuGqM/view?usp=sharing>