

Rajesh Sharma

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□ Education

- 10th from Govt. Senior Secondary School Shorshan in 2007
- 12th from Lucknow Public School, Lucknow, U.P. in 2009
- B.Sc. (Non-medical) from Govt. College Sanjauli, Shimla, H.P. in 2012
- M.Sc. (Physical Chemistry) from H.P.U. Summer Hills, Shimla, H.P. in 2014
- PhD pursuing from IIT Mandi (enrolled in August 2019)

□ Achievements

- **CSIR-JRF (Rank 54) qualified (December, 2015)**
- **GATE Chemistry (Rank 450) qualified (Feb, 2015)**
- **BARC OCES qualified thrice (selected for JRF position at IGCAR, DAE, Kalpakkam, T.N.) (August, 2014)**
- **Selected under Visvesvaraya PhD scheme for PhD at IIT Kanpur (October 2015 -June 2017)**
- **Recipient of Mukhya Mantri Protsahan Yojana (amount of 75,000), 2015 for getting selected at IIT Kanpur for PhD program**
- **Recipient of merit cum means fellowship for Post-Graduation**
- **Gold medal in B.Sc. (2012) for securing first position in Himachal Pradesh University**
- **Selected for part-time PhD program in School of Chemical Science at IIT Mandi in August 2019**

□ Research interests

- **Conducting polymers**
- **Heterogeneous catalysis**
- **Photocatalysis**
- **Hydrogen evolution and water splitting**
- **Conducting polymer nanocomposites for environmental remediation application**

☐ Publications

1. Room temperature synthesis of PANI/BiOBr nanocomposite for photocatalytic degradation of rhodamine B dye Under Visible light

Rajesh Kumar^{a,b}, Swadhin Kumar Jena^a, Million Mulugeta^a, Rituporn Gogoi^a, Astha Singh^a, Prem Felix Siril^{a*}

^a School of Chemical Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh-175005, India

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(Manuscript ready for submission)

2. Facile synthesis of Z-scheme Fe-nPPy/BiOI nanocomposites for enhanced visible light driven photocatalytic activity

Rajesh Kumar^{a,b}, Rituporn Gogoi^a, Kajal Sharma^a, Astha Singh^a, Prem Felix Siril^{a*}

^a School of Chemical Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh-175005, India

^b Govt. College Kullu, Himachal Pradesh- 175001, India

Environ. Sci.: Adv., 2024, 3, 85 DOI: 10.1039/d3va00250k

3. Continuous flow synthesis of disordered covalent organic framework for ultra-high removal of industrial pollutants in flow

Astha Singh,¹ Rituporn Gogoi,¹ Kajal Sharma, **Rajesh Kumar**, Prem Felix Siril

School of Chemical Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh 175005, India

Sep. Purif. Technol, Volume 307, 2023, 122739, ISSN 1383-5866,

4. Mechanically pulverized covalent organic framework as a metal-free photocatalyst for fenton-like degradation of organic pollutants and hexavalent chromium reduction

Rituporn Gogoi ¹, Swadhin Kumar Jena ², Astha Singh ³, Kajal Sharma ⁴, Kirti Khanna ⁵, Sumanta Chowdhury ⁶, **Rajesh Kumar** ⁷, Prem

Felix Siril ⁸ School of Chemical Sciences, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh 175005, India

J. Environ. Chem. Eng., Volume 12, Issue 2, 2024, 112006, ISSN 2213-3437

5. Engineering the physical properties and photocatalytic activities of a β -ketoenamine COF using continuous flow synthesis

Astha Singh, Rituporn Gogoi, Kajal Sharma, Swadhin Kumar Jena, **Rajesh Kumar**, Najla Fourati, Chouki Zerrouki, Samy Remita, Prem Felix Siril

Chemosphere, Volume 361, 2024, 142524, ISSN 0045-6535

□ Conferences/Seminars attended

- **International Virtual Workshop Under Indo-French SPARC Scheme of Ministry of Education on Recent Advances & Applications of Conducting Polymer Nanostructures & Nanocomposites (RA2CPNC) (June, 2021)**
- **National conference on “Sustainable Environment Challenges and Opportunities” organized by Centre for Continuing Education, Dr B R Ambedkar National Institute of Technology (NIT) Jalandhar from September 8 -9, 2021**
- **International conference in Photonics at IIT Kanpur (July 2016)**
- **National workshop in Luminescence materials at DAE Kalpakkam, Tamil Naidu (Dec 2014)**
- **On day workshop on ADVANCED ENERGY MATERIALS & DEVICES 2022, organized by CSIR - Central Glass & Ceramic Research Institute, Kolkata on 3rd March, 2022.**
- **International conference on Recent trends in Bio and material sciences organized by Him science congress association at Sardar Patel University Mandi on 10-11 Oct, 2022**
- **International Conference on Fundamental and Advanced Research in Chemistry (FARC - 2024), organised by IIT Mandi on 6th-8th June, 2024**

❑ FDP/Orientations programs

- **Successfully completed a 4-Week Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” organised by Teaching Learning Centre, Ramanujan College University of Delhi from 19 July - 17 August, 2021**
- **Two-Week Refresher Course On “Managing Online Classes & Co- creating MOOCS 16.0” from 13 - 27 July, 2022 organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING**

❑ Teachings

- **CHEM 101, CHEM 102**
- **CHEM 201, CHEM 202, CHEM SEC 203, CHEM SEC 204**
- **CHEM 301, CHEM 304, CHEM 305, CHEM SEC 307, CHEM 308 SEC**

❑ Major assignments

- **Member of question paper setting panel of H.P.U. for B.Sc.**
- **Examiner for evaluation in panel of H.P.U. for B.Sc.**
- **Member of various college committees**