

BIO-DATA

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Educational Qualifications:

Ph.D (2019-present) from Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh, India, Specialization: Chemical Engineering, Research area: Steam Reforming Catalysts for Membrane Reformer

M.Tech (2017-2019) from National Institute of Technology, Jalandhar, Punjab, India, Specialization: Chemical Engineering, Research area: Photocatalytic degradation of 2, 4 DCP using phosphorous and nitrogen doped ZnO photocatalyst

B.Tech (2012-2016) from Delhi Technological University, Delhi, India, Specialization: Polymer science and chemical technology

Patents Filed

- Anjali Baudh, Rajesh K Upadhyay, Sweta Sharma, Rahul Sharma. A Trimetallic Catalyst for Generation of Hydrogen and A Method of Preparation Thereof, **(Filed)**
(Patent application no 202311057308)

- Anjali Baudh, Rajesh K Upadhyay, Sweta Sharma, Rahul Sharma. A Catalyst for Methane Steam Reforming for hydrogen production (**Filed**)
(Patent application no 202411074005)

Publications

- Anjali Baudh, Rahul Sharma, Sweta Sharma, Rajesh K Upadhyay. Bimetallic catalyst for Methane Steam Reforming: Effect of Lanthanum and Iron Doping on Nickel-based Catalyst, *ChemistrySelect*, 9(19), 2024
- Anjali Baudh, Meenakshi Garjola, Rahul Sharma, Sweta Sharma, Rajesh K Upadhyay. Effect of ceria morphology on hydrogen production via methane steam reforming for membrane reformer, *The Canadian Journal of Chemical Engineering*, 102(11), 2024
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay. Trimetallic Ni-Fe-La/Al₂O₃ methane steam reforming catalyst for hydrogen production to reduce the CO selectivity, *Chemical Engineering Journal*, (Manuscript submitted)
- Anjali Baudh, Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay. Effect of lanthanum and iron promoters on trimetallic Ni-Co based catalyst on both Alumina and Ceria Supports, *International Journal of Hydrogen Engineering*, (To be submitted)
- Anjali Baudh, Rahul Sharma, Sweta Sharma, Rajesh K Upadhyay. Scale up studies of steam methane reforming for membrane reformer (To be submitted)
- Anjali Baudh, Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay. Effect of mixed supports on trimetallic catalyst for steam methane reforming (To be submitted)

Book Chapter

- Anjali Baudh, Sweta Sharma, Rajesh K Upadhyay, Technology for Production and Mechanism of Hydrogen, Chemical Engineering Essentials 2 (Published, April 2025)

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- Anjali Baudh , Rahul Sharma, Sweta Sharma, Rajesh K Upadhyay, Synthesis of a trimetallic catalyst for steam reforming of methane to produce onsite ultra-pure hydrogen for membrane reformer, **ISCRE28**, Turku, Finland, June 16-19,2024
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Scale –up analogy of packed bed methane steam reforming for hydrogen production using tri-metallic Ni-Co-La/Al₂O₃ catalyst, **GLS16**, Dresden, Germany, Sept 2-5 2024
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Synthesis of trimetallic catalyst for methane steam reforming catalyst for hydrogen production, **HEET 2023**, Nov 10-11, 2023, Osaka Japan
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Synthesis of a novel catalyst for natural gas based membrane reformer to produce ultra-pure hydrogen, **ICPHD'23**, Nov 3-5, IIT GUWAHATI
- Anjali Baudh , Ritika Singh, Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Kinetic study of methane steam reforming reactions for Ni-Fe bimetallic catalyst, **CHEMCON 2023**, HIT Kolkata, Dec 27-30
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Synthesis of a methane steam reforming catalyst for Membrane Reformer, **Research Conclave RIC Indore 2023**, Jan 20-22 ,2023

- Anjali Baudh , Rahul Sharma, Sweta Sharma, Rajesh K Upadhyay, Synthesis of methane steam reforming catalyst for membrane reformer **Conference CHEMCON 2022**, HBTU Kanpur, Uttar Pradesh, Dec 27-30, 2022
- Anjali Baudh , Rahul Sharma , Sweta Sharma, Rajesh K Upadhyay, Synthesis of tri-metallic Ni-Co-La/Al₂O₃ catalyst for methane steam reforming in hydrogen production using packed bed reactor, **CAMURE12-ISMR11**, Sept 8-11 2024

Date: 28/02/2025

Place: IIT (BHU)

Signature