



Saraswati Sharma

Profile

Saraswati Sharma was born and grew up in Chhattisgarh state in India. She received her secondary school education at Century cement higher secondary school in Science. She enrolled for her Postgraduate studies in chemistry at the Pt. Ravishankar Shukla University in Chhattisgarh and awarded a M.Sc. degree in Chemistry in 2009.

She enrolled for a Master's in chemistry research at the University of Pretoria in May 2018. In her thesis entitled, *Metal organic frameworks for the electrocatalytic reduction of CO₂*, she has utilized low-cost and environmentally-friendly transition metal-based materials to investigate the recent advances on novel design of crystalline porous materials frameworks "METAL ORGANIC FRAMEWORKS" (MOFs) and synthesis of MOF-based electrocatalysts for CO₂ reduction. The synthesized novel MOF materials were characterized to investigate their various properties for better understanding of the importance of the catalytic process for CO₂ reduction through electrochemical processes. The study addresses the design of metal-base porous framework structures and their catalytic, selectivity, and stability properties towards enhanced CO₂ reduction, with detailed explanation of some of the many problems associated with such studies. Hence, the study contributes a significant progress to the scientific world especially in developing nanostructured materials for CO₂ reduction. The results from the study have been drafted for publication in high impact scientific journals and will be presented at both national and international conferences.

Education

Master Research, University of Pretoria, Johannesburg, South Africa

JANUARY 2018 – DECEMBER 2021

B. Ed, Pt. Ravishankar Shukla University, Raipur

2021

Master of Science, Pt. Ravishankar Shukla University, Raipur

2009

Bachelor of Science, Pt. Ravishankar Shukla University, Raipur

2007

Higher Secondary Education / XII Class, CG Board, Raipur

2004

Secondary School / X Class, CG Board, Raipur

2002

Details

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NATIONALITY

Indian

PLACE OF BIRTH

Raipur

Skills

Inorganic Chemistry

Organic Chemistry

Metal Organic Framework

Electro Catalysis

Nano Material Synthesis