



## Parul Saini

**Ph.D** : Indian Institute of Technology Delhi (2008-present)

**MSc**: Pt. L.M.S. Govt. P. G. College Rishikesh (2015-2017)

**BSc**: Pt. L.M.S. Govt. P. G. College Rishikesh (2012-2015)

**Current Research**: Development of Novel Sustainable Catalysts for oxidation and related reactions on Organic Substrates.

### **RESEARCH PUBLICATIONS**

1. Oxidative Coupling of Benzylamines with Indoles in Aqueous Medium to Realize Bis-(Indolyl)Methanes Using a Water-Soluble Cobalt Catalyst and Air as the Oxidant

**Parul Saini**, Pratishtha Kumari, Susanta Hazra, and Anil J. Elias, *Chem. Asian. J.* 2019, 14, 4154-4159.

2. External Catalyst-Free Oxidation of Benzyl Halides to Benzoic Acids Using NaOH/TBHP in Water

**Parul Saini**, Anandhu Krishnan, Deepak Yadav, Susanta Hazra and Anil J. Elias, *Asian J. Org. Chem.* 2021, 10, 2355–2359.

3. A Catalyst and Solvent Free Route for the Synthesis of N-Substituted Pyrrolidones from Levulinic Acid

Pritam Dolui, Vikas Tiwari, **Parul Saini**, Tarak Karmakar, Koushik Makhal, Harshita Goel, Anil J. Elias, *Chem. Eur. J.* 2022 , <https://doi.org/10.1002/chem.202200829>

4. Synthesis, characterization, and catalysis of water-soluble trimeric and monomeric palladium complexes of 8-aminoquinolines

Pritam Dolui, Ashutosh Verma, **Parul Saini**, Abhishek Nair, Sajesh P Thomas, Anil J. Elias, *Eur. J. Inorg. Chem.* 2022, <https://doi.org/10.1002/ejic.202200559>

5. In Situ Generated Et<sub>3</sub>SiI as a Metal-Free Catalyst for the Room-Temperature Synthesis of  $\gamma$ -Valerolactone from Levulinic Acid

Pritam Dolui, Abhishek Nair, **Parul Saini**, Ashutosh Verma, Prof. Dr. Anil. J. Elias, *Asian J. Org. Chem.* 2022, <https://doi.org/10.1002/ajoc.202200650>

6. In situ generated aminodiborane as a reagent for deoxygenative reduction of carboxamides to amines

Abhishek Nair, Vikas Tiwari, Ashutosh Verma, **Parul Saini**, Prof. Dr. Anil. J. Elias, *Org. Chem. Front.* 2023, <https://doi.org/10.1039/D2QO01717B>

7. A Bench-stable 8-Aminoquinoline Derived Phosphine-free Manganese (I)-Catalyst for Environmentally Benign C( $\alpha$ )-Alkylation of Oxindoles with Secondary and Primary Alcohols

**Parul Saini**, Dr. Pritam Dolui, Abhishek Nair, Ashutosh Verma, Prof. Dr. Anil J. Elias, *ChemAsian J.* 2023, <https://doi.org/10.1002/asia.202201148>

8. Reduction of esters to alcohols and iodides using *in situ* generated aminodiborane: Scope and mechanistic investigations

Abhishek Nair, Vikas Tiwari, Sambhav Rath, **Parul Saini**, Ashutosh Verma, and Anil J. Elias

*ChemComm.* 2023, <https://doi.org/10.1039/D3CC03100D>