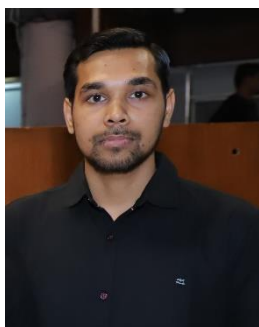


# Ashutosh Verma



Ph.D: Indian Institute of Technology Delhi (2018-present)

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

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

## Research Interest:

New transition metal and main group element based catalysis for oxidation, CH functionalization and related reaction in aqueous medium

## Publications:

1. NaCl as Catalyst and Water as Solvent: Highly E-Selective Olefination of Methyl Substituted N-Heteroarenes with Benzyl Amines and Alcohols

Susanta Hazra, Vikas Tiwari, **Ashutosh Verma**, Pritam Dolui, and Anil J. Elias

*Org. Lett.* 2020, 22, 14, 5496–5501

<https://doi.org/10.1021/acs.orglett.0c01851>

2. Ruthenium-Catalyzed Synthesis of  $\alpha$ -Alkylated Ketones and Quinolines in an aqueous Medium via a Hydrogen-Borrowing Strategy Using Ketones and Alcohols

**Ashutosh Verma**, Susanta Hazra, Pritam Dolui and Anil J. Elias

*Asian J. Org. Chem.* 2021, 10, 626 –633

<https://doi.org/10.1002/ajoc.202000686>

3. Directing group-assisted C-H bond functionalization of ferrocene and CpCo(C<sub>4</sub>Ph<sub>4</sub>) derivatives  
Pritam Dolui, Ashutosh Verma, Anil J. Elias  
Handbook of C-H Functionalization, 2022, Ch-74  
<https://doi.org/10.1002/9783527834242.chf0074>
4. Directing group enabled 'On-Water' C-H bond functionalization of ferrocene derivative  
**Ashutosh Verma**, Pritam Dolui, Susanta Hazra and Anil J. Elias  
*J. Organomet. Chem.* **964**, 2022, 122303  
<https://doi.org/10.1016/j.jorganchem.2022.122303>
5. 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>
6. 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>
7. 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>

8. 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,

*Chem. Asian. J.* 2023, 18, e202201148,

<https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202201148>

9. C–H Bond Functionalization of Aryl Acids and Amines by ‘On-water’ Reaction: Bi-dentate Directing Group Enabled Synthesis of Biaryl and m-Teraryl Carboxamides

**Ashutosh Verma**, Prof. Dr. Anil. J. Elias,

*Chem. Asian. J.* 2023, 18, e202300191,

<https://onlinelibrary.wiley.com/doi/abs/10.1002/asia.202300191>

10. Reduction of esters to alcohols and iodides using amidodiborane ( $\mu$ - $\text{NH}_2\text{B}_2\text{H}_5$ ): Scope and mechanistic investigations

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

*Chem. Comm.*, 2023, DOI: 10.1039/D3CC03100D

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