

# Abhishek Nair



## Education:

Ph.D. : Indian Institute of Technology Delhi (2019 -Present)

M.Sc. : University of Delhi (2017 – 2019)

B.Sc. : University of Delhi (2014 – 2017)

Research Interest : Development of boron-based reagents for reduction and related reactions on organic substrates.

## Publications :

1. Reduction of esters to alcohols and iodides using aminodiborane ( $\mu$ -NH<sub>2</sub>B<sub>2</sub>H<sub>5</sub>): Scope and mechanistic investigations  
Abhishek Nair, Vikas Tiwari, Sambhav Rath, Parul Saini, Ashutosh Verma, Anil. J. Elias, *Chem. Commun.* **2023**, DOI: 10.1039/D3CC03100D.
2. 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>

3. 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**, 10, 327-334.  
<https://doi.org/10.1039/D2QO01717B>.
4. 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**, 11, e202200650.  
<https://doi.org/10.1002/ajoc.202200650>
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**, 26, e202200559.  
<https://doi.org/10.1002/ejic.202200559>
6. Acceptorless Dehydrogenation of Alcohols and Transfer Hydrogenation of Aldehydes in Water Using a Single Bifunctional, Bistate, Water-soluble Ruthenium Catalyst  
Susanta Hazra, **Abhishek Nair**, Pritam Dolui, Ekta Malik, Anil J. Elias, *Chem. Asian. J.* **2022**, 17, e202200883.  
<https://doi.org/10.1002/asia.202200883>
7. Catalytic Oxidation of Alcohols and Amines to Value-Added Chemicals using Water as the Solvent  
Susanta Hazra, Ekta Malik, **Abhishek Nair**, Vikas Tiwari, Pritam Dolui, and Anil J. Elias, *Chem. Asian. J.* **2020**, 14, 4154-4159.  
<https://doi.org/10.1002/asia.202000299>

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