

Dr. Deependra Bawari

Ramanujan Faculty Fellow

Research Interest: Main group elements-based catalysis

Email: deependra.bawari@iiserkol.ac.in

A brief overview about myself:

I have been working in collaboration with Prof. Mandal since November 2025 in the Department of Chemical Sciences at the Indian Institute of Science Education and Research Kolkata. I obtained my Bachelor's degree from Kumaun University and my Master's degree from Govind Ballabh Pant University of Agriculture and Technology, Uttarakhand, and completed my Ph.D. at IISER Mohali. Following my doctoral studies, I undertook two postdoctoral appointments, first at the National Centre for Scientific Research (CNRS), France, and subsequently at Tel Aviv University, Israel. During my tenure in Israel, I was awarded the prestigious PBC Fellowship from the Council for Higher Education, Israel, along with the Raymond and Beverly Sackler Award from Tel Aviv University. I have expertise in organic and inorganic synthesis and am well experienced in performing catalytic reactions under inert conditions, including work inside a glovebox and using Schlenk-line techniques. My research focuses on the development of main-group element-based catalysts as innovative alternatives to traditional transition-metal systems, with the aim of enabling more sustainable, cost-effective, and environmentally benign catalytic processes with potential industrial relevance.

List of Publications:

- 1) [D. Bawari](#),* D. Toami, R. Dobrovetsky* *Chem. Commun*, **2025**, 61, 5871-5882.
- 2) [D. Bawari](#), I. Malahov, R. Dobrovetsky* *Angew. Chem. Int. Ed.* **2025**, 64, e202419772.
- 3) [D. Bawari](#), D. Toami, K. Jaiswal R. Dobrovetsky* *Nat. Chem.* **2024**, 16, 1261-1266.
- 4) K. Chulsky, I. Malahov, [D. Bawari](#), R. Dobrovetsky* *J. Am. Chem. Soc.* **2023**, 145, 3786.
- 5) S. Volodarsky, [D. Bawari](#), R. Dobrovetsky* *Angew Chem., Int. Ed.*, **2022**, 61, e202208401.
- 6) S. Volodarsky, I. Malahov, [D. Bawari](#), M. Diab, B. Tumanskii, R. Dobrovetsky* *Chem. Sci.* **2022**, 13, 5957-5963.
- 7) [D. Bawari](#), S. Volodarsky, Y. Gringburg, K. Jaiswal, P. Joshi, R. Dobrovetsky* *Chem. Commun*, **2022**, 58, 12176-12179.
- 8) K. Jaiswal, K. Groutchik, [D. Bawari](#), R. Dobrovetsky* *ChemCatChem*, **2022**, 14, e202200004.
- 9) [D. Bawari](#), S. Volodarsky, Y. Gringburg, K. Jaiswal, P. Joshi R. Dobrovetsky* *Dalton Trans.*, **2021**, 50, 16478-16482.
- 10) A. Wong, A. Chakraborty, [D. Bawari](#), G. Wu, R. Dobrovetsky, G. Ménard* *Chem. Commun*, **2021**, 57, 6903-6906.

- 11) K. K. Manar, V. K. Porwal, R. S. Kamte, S. K. Thakur, [D. Bawari](#), A. R. Choudhury, S. Singh* *Dalton. Trans.* **2019**, *48*, 17472–17478.
- 12) C. Negi, [D. Bawari](#), S. K. Thakur, A. R. Choudhury, Sanjay Singh, *J. Organomet. Chem.* **2019**, *901*, 120943 (1-8).
- 13) [D. Bawari](#), C. Negi, V. K. Porwal, S. Ravi, K. R. Shamasundar, S. Singh* *Dalton. Trans.* **2019**, *48*, 7442.
- 14) [D. Bawari](#), S. K. Thakur, K. K. Manar, B. Goswami, V. R. Sabari, A. R. Choudhury, S. Singh* *J. Organomet. Chem.* **2019**, *880*, 108-115.
- 15) [D. Bawari](#), C. Negi, K. Jaiswal, B. Prashanth, A. R. Choudhury, S. Singh* *Chem. Commun.* **2018**, *54*, 8857-8860.
- 16) [D. Bawari](#), B. Goswami, V. R. Sabari, S. K. Thakur, V. Tej R V, A. R. Choudhury, S. Singh* *Dalton. Trans.* **2018**, *47*, 6274-6278.
- 17) Rishu, B. Prashanth, [D. Bawari](#), U. Mandal, A. R. Choudhury, S. Singh*, A. Verma *Dalton. Trans.* **2017**, *46*, 6291-6302.
- 18) [D. Bawari](#), B. Prashanth, K. Jaiswal, A. R. Choudhury, S. Singh* *Eur. J. Inorg. Chem.* **2017**, 4123.
- 19) B. Prashanth, [D. Bawari](#), S. Singh* *ChemistrySelect* **2017**, *2*, 2039-2043.
- 20) [D. Bawari](#), B. Prashanth, S. Ravi, K. R. Shamasundar, S. Singh*, D. S. Wright, *Chem. Eur. J.* **2016**, *22*, 12027-12033.
- 21) P. Mishra, K. Verma, [D. Bawari](#), K. S. Viswanathan* *J. Chem. Phys.* **2016**, *144*, 234307-1-234307-9.
- 22) K. Jaiswal, B. Prashanth, [D. Bawari](#), S. Singh* *Eur. J. Inorg. Chem.* **2015**, *2015*, 2565-2573.

Awards/Recognition:

2025	Ramanujan Fellowship
2024-2025	Raymond and Beverly Sackler at Tel Aviv University, Israel.
2020-2022	Planning and Budgeting Committee (PBC) fellowship for outstanding foreign post-doctoral researchers in Israel.