

Appendix

List of Publications

Publications Included in Thesis:

1. **Hota, S. K.**;+ Panda, S. P.;+ Das, S.; Mahapatra, S. K.; Roy, L.; De Sarkar, S.; Murarka, S., Photoinduced Electron Donor–Acceptor Complex-Mediated Radical Cascade Involving *N*-(Acyloxy)phthalimides: Synthesis of Tetrahydroquinolines. *J. Org. Chem.* **2023**, *88*, 2543-2549.
2. **Hota, S. K.**; Singh, G.; Murarka, S., Direct C–H alkylation of 3,4-dihydroquinoxaline-2-ones with *N*-(acyloxy)phthalimides via radical–radical cross coupling. *Chem. Commun.* **2024**, *60*, 6268-6271.
3. **Hota, S. K.**; Murarka, S., Visible Light-Induced Imide Alkylation of Azauracils with Aryl Diazoesters. *Chem. Asian J.* **2024**, *19*, e202301027.

Publications not Included in Thesis:

4. **Hota, S. K.**; Murarka, S., Cost-Effective Carbon Quaternization with Redox-Active Esters and Olefins. *Angew. Chem. Int. Ed.* **2024**, *63*, e202408301.
5. **Hota, S. K.**; Jinan, D.; Panda, S. P.; Pan, R.; Sahoo, B.; Murarka, S., Organophotoredox-Catalyzed Late-Stage Functionalization of Heterocycles. *Asian J. Org. Chem.* **2021**, *10*, 1848-1860.
6. **Hota, S. K.**;+ Meher, P.;+ Murarka, S., Rhodium(II)-Carboxylate-Catalyzed Carbene Transfer Reactions: Toward C–H Functionalizations. In *Handbook of CH-Functionalization*, pp 1-30.
7. Parida, S. K.; Mandal, T.; Das, S.; **Hota, S. K.**; De Sarkar, S.; Murarka, S., Single Electron Transfer-Induced Redox Processes Involving *N*-(Acyloxy)phthalimides. *ACS Catal.* **2021**, *11*, 1640-1683.
8. Das, S.; Parida, S. K.; Mandal, T.; **Hota, S. K.**; Roy, L.; De Sarkar, S.; Murarka, S., An organophotoredox-catalyzed redox-neutral cascade involving *N*-(acyloxy)phthalimides and maleimides. *Org. Chem. Front.* **2021**, *8*, 2256-2262.
9. Parida, S. K.;+ **Hota, S. K.**;+ Kumar, R.; Murarka, S., Late-Stage Alkylation of Heterocycles Using *N*-(Acyloxy)phthalimides. *Chem. Asian J.* **2021**, *16*, 879-889.
10. Das, S.; Azim, A.; **Hota, S. K.**; Panda, S. P.; Murarka, S.; De Sarkar, S., An organophotoredox-catalyzed redox-neutral cascade involving *N*-(acyloxy)phthalimides and allenamides: synthesis of indoles. *Chem. Commun.* **2021**, *57*, 13130-13133.
11. Parida, S. K.;+ **Hota, S. K.**;+ Jaiswal, S.; Singh, P.; Murarka, S., Multicomponent Synthesis of Biologically Relevant *S*-Diarylmethane Dithiocarbamates Using *p*-Quinone Methides. *Adv. Synth. Catal.* **2022**, *364*, 1549-1554.
12. Panda, S. P.;+ **Hota, S. K.**;+ Dash, R.; Roy, L.; Murarka, S., Photodecarboxylative C–H Alkylation of Azauracils with *N*-(Acyloxy)phthalimides. *Org. Lett.* **2023**, *25*, 3739-3744.
13. Dash, R.;+ **Hota, S. K.**;+ Murarka, S., Base-Promoted 1,6-Aza-Michael Addition of Azauracils to *para*-Quinone Methides. *Synthesis* **2023**, *56*, 677-685.
14. Panda, S. P.; Dash, R.; **Hota, S. K.**; Murarka, S., Photodecarboxylative Radical Cascade Involving *N*-(Acyloxy)phthalimides for the Synthesis of Pyrazolones. *Org. Lett.* **2024**, *26*, 3667-3672.
15. Panda, S. P.;+ **Hota, S. K.**;+ Jindal, A.; Murarka, S., 2.1 Base-Metal-Mediated Cross Couplings Using *N*-(Acyloxy)phthalimides. In *Base-Metal Catalysis 2*, 1st edition ed.; Georg Thieme Verlag KG: Stuttgart, 2023; Vol. 2023/3.

16. Senapati, S.; **Hota, S. K.**; Kloene, L.; Empel, C.; Murarka, S.; Koenigs, R. M., C-H alkylation of heterocycles via light-mediated palladium catalysis. *Angew. Chem. Int. Ed.* **2024**, e202417107.

+ = equal contribution.

Conference Attended

1. Contemporary Facets in Organic Synthesis (CFOS-2022), IIT Roorkee, India, **2022. (Received Best Poster Award)**
2. RSC-Twitter Conference, **2023.** (Online participant for poster presentation)
3. 32nd CRSI National Symposium in Chemistry (CRSI-NSC-32), BITS Pilani, India, **2024.**
4. International Conference on Organometallic Chemistry-2024 (ICOMC-2024), Agra, India, **2024.**
5. Oral presentation at JNOST-2024 organized by Indian Institute of Technology Gandhinagar, **2024.**

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