

| | |
|---|---|
| Name: | Dr Dilawar Husain |
| Date of Birth: | 31/08/1989 |
| Place of Birth: | Lucknow |
| Year of Matriculation: | 2003 |
| School of Matriculation: | Baby Martin Public Intercollege, Lucknow |
| Year of Intermediate: | 2005 |
| School/College of Intermediate: | Baby Martin Public Intercollege, Lucknow |
| Year of Graduation with subjects: | 2011, (B. Tech Mechanical Engineering) |
| University of Graduation: | Aligarh Muslim University |
| Year of Masters: | 2013 |
| University of Masters with subjects: | Aligarh Muslim University (M. Tech Thermal Sciences) |
| Year of Ph.D.: | 2020 |
| University and Mentor of Ph.D. with research specifics: | Motilal Nehru National Institute of Technology, Allahabad (Supervisor: Prof. Ravi Prakash Area: Energy & Building) |
| Research Interests: Analysis | Sustainability, Lifecycle Analysis, Ecological Footprint Analysis |
| Names of publications | <p><u>Journal Papers (SCI/Scopus)</u></p> <ol style="list-style-type: none"> 1. Shah Faisal, Bhanu Pratap Soni, Govind Rai Goyal, Farhad Ilahi Bakhsh, Dilawar Husain, Akbar Ahmad (2024). Reducing the Ecological Footprint and charging cost of electric vehicle charging station using renewable energy based power system. <i>e-Prime-Advances in Electrical Engineering, Electronics and Energy</i>, 7, 100398. (<i>Scopus Indexed</i>) 2. Sajid Naeem, A. V. Shaikh, Asif Rasool, Dilawar Husain, Md Tanwir Alam, A. V Patil, (2024). Enhancing supercapacitor performance through electrodeposition of cobalt hydroxide thin film: structural analysis, morphological characterization, and investigation of electrochemical properties. <i>Ionics</i>, 30(1), 399-405. (<i>SCI indexed</i>) 3. Dilawar Husain, Kirti Tewari, Manish Sharma, Akbar Ahmad, Ecological Footprint Assessment of Modified Domestic Solar Water Heating System (<i>Accepted SCI indexed</i>) 4. Yakub Ansari; Dilawar Husain; Das, U.K.; Haloi, J.; Khan, N.A.; Ravi Prakash; Husain, M. Ecological Footprint Assessment of Concrete: Partial Replacement of Cement by Water Treatment Sludge & Stone Dust. <i>Sustainability</i> 2023, 15(9), 7512; https://doi.org/10.3390/su15097512 (<i>SCI indexed</i>) 5. Sajid Naeem, Arun V. Patil, Arif V. Shaikh, U. P. Shinde, Dilawar Husain, Md Tanwir Alam, Manish Sharma, Kirti Tewari, Shameem Ahmad, Aqueel Ahmed Shah, Syed Abbas Ali, Akbar Ahmad, "A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors", <i>Advances in Materials Science and Engineering</i>, vol. 2023, Article ID 1133559, 15 pages, 2023. https://doi.org/10.1155/2023/1133559 (<i>Scopus Indexed</i>) |

6. Ravi Prakash, **Dilawar Husain** “Energy-water nexus for thermal power generation in India: challenges and opportunities” Environment, Development and Sustainability 1-21 <https://doi.org/10.1007/s10668-023-03075-6> (*SCI indexed*)
7. Syed Sameer Hussain, Syed Abbas Ali, Altaf Hussain Bagwan, **Dilawar Husain**, Akbar Ahmad, "Prediction of CI Engine Emissions Fueled with Multiwalled Carbon Nanotube-Doped Waste Cooking Oil Biodiesel using Multilayer Neural Network", Journal of Nanomaterials, vol. 2023, Article ID 2508422, 9 pages, 2023. <https://doi.org/10.1155/2023/2508422> (*Scopus Indexed*)
8. Naveed Akhtar, Tarique Ahmad, **Dilawar Husain**, Ali Majdi, Md Tanwir Alam, Naveed Husain, Abhay Kumar S. Wayal, “Ecological footprint and economic assessment of conventional and geopolymer concrete for sustainable construction” Journal of Cleaner Production 380 (2022) 134910, <https://doi.org/10.1016/j.jclepro.2022.134910> (*SCI Indexed*)
9. Yakub Ansari, **Dilawar Husain**, Syed Mohammad Haadi, Jyotirmoy Haloi, Ravi Prakash “Life Cycle Ecological Footprint of Building: A Case Study of Low-Rise Tropical Residential Building” International Journal of Environmental Science and Technology, <http://dx.doi.org/10.1007/s13762-022-04518-9> (*SCI indexed*)
10. **Dilawar Husain**, Ravi Prakash, Akbar Ahmad (2022) “Lifecycle Ecological Footprint Reduction for a Tropical Building” Advances in Civil Engineering, Vol 2022, Article ID 4181715, <https://doi.org/10.1155/2022/4181715> (*SCI indexed*)
11. Ajay, Biswas; **Dilawar, Husain**; Ravi, Prakash “Life-cycle Ecological Footprint Assessment of Grid-Connected Rooftop Solar PV System” International Journal of Sustainable Engineering 14 (3) 2021, 529-538 <https://doi.org/10.1080/19397038.2020.1783719> (*Scopus indexed*)
12. Valipour Berenjestanaki, A., **Dilawar Husain** (2021). “Effect of Nitromethane and Jatropha Biodiesel on the Combustion, Performance and Emission Characteristics of Diesel Engine” International Journal of Automotive and Mechanical Engineering, 18(3), 8986–8997 <https://doi.org/10.15282/ijame.18.3.2021.11.0688> (*Scopus indexed*)
13. Manish Sharma, **Dilawar Husain**,(2021) “Exergo-economic environmental analysis of organic Rankine cycle” Materials Today: Proceedings, [Volume 46, Part 20](https://doi.org/10.1016/j.matpr.2020.12.539), 2021, Pages 10368-10371 <https://doi.org/10.1016/j.matpr.2020.12.539> (*Scopus indexed*)
14. **Dilawar Husain**, Ravi Prakash. “Ecological Footprint Reduction of Built Envelope in India” Journal of Building Engineering, 2019, 21, 278-286. <https://doi.org/10.1016/j.jobbe.2018.10.018> (*SCI indexed*)
15. **Dilawar Husain**, Ravi Prakash. “Life Cycle Ecological Footprint Assessment of an Academic Building” Journal of The Institution of Engineers (India): Series A, 2019, 100

(1), 97-110 <https://doi.org/10.1007/s40030-018-0334-3>
(*Scopus indexed*)

16. **Dilawar Husain**, Ravi Prakash. "Ecological Footprint Reduction of Building Envelope in a Tropical Climate" Journal of The Institution of Engineers (India): Series A, 2019 100 (1), 41-48 <https://doi.org/10.1007/s40030-018-0333-4> (*Scopus indexed*)

17. **Dilawar Husain**, Pulkit Garg Ravi Prakash, "Ecological footprint assessment and its reduction for industrial food products" International Journal of Sustainable Engineering, 14(1) 2021, 26-38, <https://doi.org/10.1080/19397038.2019.1665119> (*Scopus indexed*)

Book Chapter

1. **Dilawar Husain**, Ravi Prakash; "Carbon reduction strategies for the built environment in a tropical city"; Urban Ecology-Emerging Patterns and Social-Ecological Systems 2020, (Chapter-9) Pages 145-162, (Elsevier). ISBN: 0128207310, 9780128207314, <https://doi.org/10.1016/B978-0-12-820730-7.00009-4> (17 July 2020) (*Scopus Indexed*)

2. Vishal Nawandar, **Dilawar Husain**, Ravi Prakash; "Ecological Footprint Assessment and Its Reduction for Packaging Industry" Assessment of Ecological Footprints, Environmental Footprints and Eco-design of Products and Processes, 2021 pages 41-78, (Springer Singapore), ISBN: 978-981-16-0096-8 https://doi.org/10.1007/978-981-16-0096-8_2 (*Scopus indexed*)

3. Rahul SinghYadav, **Dilawar Husain**, Ravi Prakash; "Sustainability improvement opportunities for an industrial complex" Methods in Sustainability Science: Assessment, Prioritization, Improvement, Design and Optimization, 2021, Pages 215-226, <https://doi.org/10.1016/B978-0-12-823987-2.00005-2> (*Scopus indexed*)

4. **Dilawar Husain**, Kirti Tewari, Manish Sharma, M., Ahmad, A., Ravi Prakash, (2022). Ecological Footprint of Multi-silicon Photovoltaic Module Recycling. In: Muthu, S.S. (eds) Environmental Footprints of Recycled Products. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-16-8426-5_3 (*Scopus indexed*)

5. Yakub Ansari, Abu Usama, **Dilawar Husain**, Manish Sharma, Ravi Prakash, (2022). Ecological Footprint Assessment of Recycled Asphalt Pavement Construction. In: Muthu, S.S. (eds) Environmental Footprints of Recycled Products. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-16-8426-5_5 (*Scopus indexed*)

6. Sajid Naeem, **Dilawar Husain**, Tewari, K., Zafar, N., Alam, M.T., Hussain, N. (2023). Carbon Footprint of Pipe Production Using Waste Plastics. In: Muthu, S.S. (eds)

| | |
|-----------------------|--|
| | <p>Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_1 (<i>Scopus indexed</i>)</p> <p>7. Tauseef Ahmed, Dilawar Husain. (2023). Environmental Assessment of Plastic Cell-Filled Concrete Pavement. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_2 (<i>Scopus indexed</i>)</p> <p>8. Md Salman Baig, Dilawar Husain. (2023). Carbon Footprint and Economic Assessment of LED Bulbs Recycling. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_3 (<i>Scopus indexed</i>)</p> <p>9. Shameem Ahmad, Dilawar Husain (2023). Ecological Footprint Assessment of e-Waste Recycling. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_5 (<i>Scopus indexed</i>)</p> <p>10. Yakub Ansari, Dilawar Husain (2023). Ecological Footprint Assessment of Concrete Using e-Waste. In: Muthu, S.S. (eds) Environmental Assessment of Recycled Waste. Environmental Footprints and Eco-design of Products and Processes. Springer, Singapore. https://doi.org/10.1007/978-981-19-8323-8_6 (<i>Scopus indexed</i>)</p> <p>11. Mohd Akram, Salman Baig, Mahboob Ahmed, Dilawar Husain, Akbar Ahmad, Mohamed Haleem, Ravi Prakash (2023) Ecological Footprint Assessment of E-Learning in India, Book Online Learning Systems, Methods and Applications with Large-Scale Data, CRC Press, https://doi.org/10.1201/9781003272823 (<i>Scopus indexed</i>)</p> |
| Patent Filed/Granted: | <p>(1) Application No.: 202221026487 A “Solar Radiation Furnace for Melting Non-Ferrous Aluminium and Its Alloy”</p> <p>(2) Application No.: 202341055456 A “Conjugate heat transfer analysis of a rectangular cooling channel”</p> <p>(3) Application No.: 202341064551 A “Fabrication of Parabolic Through Collector (PTC) Using FRP and Aluminium”</p> |
| Hobbies: | Learning and Teaching |
| Objective of life: | Doing work in the field of SDGs |