

List of publication of Dr. Deepak Kumar Mandal

Publications in International Journals:

36. Madhu Ranjan Gunjan, Somen Kumar Dutta, Deepak Kumar Mandal*; [A pesticidal drop's impact on a wire mesh: Characterizing the post-impact atomization](#); **Physics of Fluids** (2025) **Accepted**.
35. Somen Kumar Dutta, Deepak Kumar Mandal*; [An emulsion drop's impact on an inclined mesh: How far is the penetration possible?](#) **Physics of Fluids** 37 (2025) 011706 <https://doi.org/10.1063/5.0248645> **Editor's pick**.
34. Suraj Prasad, Subhramanian Narayanan, Deepak Kumar Mandal*; [Bi-component drop's evaporation: Effect of acoustics and hot surrounding](#); **Heat Transfer Engineering** 46 (2025) 514–527 <https://doi.org/10.1080/01457632.2024.2325276>
33. Aadil Kureshee, S. Narayanan*, Deepak Kumar Mandal*; [Acoustic-induced flow on the evaporation dynamics of twin drops](#); **International Journal of Multiphase Flow** 183 (2025) 105070 (1-10) <https://doi.org/10.1016/j.ijmultiphaseflow.2024.105070>
32. Aadil Kureshee, S. Narayanan, Deepak Kumar Mandal*; [How does the placement of an acoustic source influence a drop's evaporation?](#) **Journal of Flow Visualization and Image Processing** (2024) <https://doi.org/10.1615/JFlowVisImageProc.2025053463> **Accepted**.
31. Aadil Kureshee, N. K. Jha, Vikram Singh, R. N. Hota, S. Narayanan*, Deepak Kumar Mandal*; [Effect of single and multiple acoustic frequencies on the atomization of a spray](#); **Physics of Fluids** 36 (2024) 122102 <https://doi.org/10.1063/5.0243668>
30. Somen Kumar Dutta, Deepak Kumar Mandal*; [How does an emulsion drop's viscosity influence its impact on various meshes?](#) **Physics of Fluids** 36 (2024) 062109 (1-13) <https://doi.org/10.1063/5.0208029>
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28. Aadil Kureshee, Deepak Kumar Mandal*, S. Narayanan*; [Twin bi-component drops' evaporation in an acoustic field: The amplitude influence](#); **Physics of Fluids** 35 (2023) 112112 <https://doi.org/10.1063/5.0173579>
27. Biplab Kumar Roy, Deepak Kumar Mandal, Amitava Mandal*; [Investigation of droplet impact dynamics on textured cylindrical hydrophobic surfaces](#); **Colloids and Surfaces A: Physicochemical and Engineering Aspects** 680 (2023) 132674 <https://doi.org/10.1016/j.colsurfa.2023.132674>
26. Aadil Kureshee, S. Narayanan*, Deepak Kumar Mandal*; [Evaporation of twin drops: Effect of acoustics and spacing](#); **Physics of Fluids** 35 (2023) 032103 (1-11) <https://doi.org/10.1063/5.0137944>
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24. Vikas Kumar, Deepak Kumar Mandal*; [Impact of Jatropa – diesel blend drops on a heated surface](#); **Heat Transfer Engineering** 44 (2023) 1286–1301 <https://doi.org/10.1080/01457632.2022.2127050>

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23. Lukesh Kumar Mahato, Deepak Kumar Mandal*; [A sessile drop facing a shear flow: Surrounding flow dynamics during the deformation of the drop](#); **International Journal of Multiphase Flow** 147 (2022) 103911 (1-15) <https://doi.org/10.1016/j.ijmultiphaseflow.2021.103911>
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18. Ramesh Kumar Singh, Lukesh Kumar Mahato, Deepak Kumar Mandal*; [Airflow assisted impact of drops of various viscosities: The role of viscous dissipation, normal imposed pressure, and shear flow of air](#); **Langmuir** 37 (2021) 9504–9517. <https://doi.org/10.1021/acs.langmuir.1c01367>
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21. Madhu Ranjan Gunjan, Somen Kumar Dutta, Deepak Kumar Mandal*; [Impact of a pesticidal drop on a wire mesh](#); **International Workshop on “Greener Pesticide Spray Management — Towards a Sustainable Future”**, February 24- 25, 2025, Jadavpur University, Kolkata, India.

• 2024

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20. Rohit Kumar Verma, Deepak Kumar Mandal*; [Circulation inside evaporating emulsion drops](#); **The 5th International Conference on Energy and Power (ICEP2024)**, December 4-6, 2024, **Bali, Indonesia**.
19. Ankit Kumar, Amrit Kumar, Deepak Kumar Mandal*; [Impact of a kerosene drop on a glass surface](#); **Proceedings of the 2nd International Conference on Fluid, Thermal and Energy Systems**, June 6-8, 2024, **NIT Calicut, Kerala, India**.
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18. Aadil Kureshee, S. Narayanan, Deepak Kumar Mandal*; [How does the placement of an acoustic source influence a drop's evaporation?](#) **Proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP)**, (FMFP2023–MTF–455) Dec 20-22, 2023, **IIT Jodhpur, India**.
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- 2020
14. Lukesh Kumar Mahato, Mayaram Sahu, Animesh G. Kujur, Deepak Kumar Mandal*; [The role of wettability on the shedding of drops](#); **DFD20 Meeting of The American Physical Society**, Nov 22-24, 2020, **Virtual, Chicago, USA**.
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8. Amrit Kumar, Abhishek Singh, Deepak Kumar Mandal*; [Successive impact of two drops on surfaces with various wettabilities](#); **International Conference on Recent Innovations & Developments in Mechanical Engineering (IC-RIDME 2018)**; Nov 08 - 10, 2018; National Institute of Technology Meghalaya; **India**.
7. Ramesh Kumar Singh, Vikas Kumar, Deepak Kumar Mandal*; [Impact of water drops on a PMMA surface](#); **7th International and 45th National Fluid Mechanics and Fluid Power (FMFP) conference 2018**; Dec 10 – 12, 2018; Indian Institute of Technology Bombay, **India**.
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