# Weiwei Deng

List of Publications by Year
in descending order



| 64 | 1,927 | 279487 23 | 264894 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 68 | 68 | 68 | 1864 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Axisymmetric thin film flow on a flat disk foil subject to intense radial electric fields. Physics of Fluids, 2022, 34, . | 1.6 | 3 |
| 2 | Response of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>â^¼</mml:mo><mml:mn>100</mml:mn></mml:mrow><mml:mo micron water jets to intense nanosecond laser blasts. Physical Review Fluids, 2022, 7, . | 1.0 | 1 |
| 3 | Flow-Enhanced Flexible Microcomb Printing of Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 13572-13583. | 4.0 | 7 |
| 4 | Controlling instabilities of electrified liquid jets via orthogonal perturbations. Physical Review Fluids, 2022, 7, . | 1.0 | 2 |
| 5 | Advances of Patient-Derived Organoids in Personalized Radiotherapy. Frontiers in Oncology, 2022, 12, 888416. | 1.3 | 3 |
| 6 | Printed Kirigami Organic Photovoltaics for Efficient Solar Tracking. Advanced Functional Materials, 2022, 32, . | 7.8 | 5 |
| 7 | All Electrospray Printing of Carbonâ€Based Costâ€Effective Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2006803. | 7.8 | 26 |
| 8 | Full-cycle electrochemical-thermal coupling analysis for commercial lithium-ion batteries. Applied Thermal Engineering, 2021, 184, 116258. | 3.0 | 31 |
| 9 | Toward all aerosol printing of high-efficiency organic solar cells using environmentally friendly solvents in ambient air. Journal of Materials Chemistry A, 2021, 9, 17198-17210. | 5.2 | 16 |
| 10 | Massively Multiplexed Electrohydrodynamic Tip Streaming from a Thin Disc. Physical Review Letters, 2021, 126, 064502. | 2.9 | 15 |
| 11 | Shaping electrospray deposition profile by a quadrupole: From circular to elliptical patterns. Journal of Aerosol Science, 2021, 154, 105739. | 1.8 | 5 |
| 12 | Visualization of the interaction of water aerosol and nanofiber mesh. Physics of Fluids, 2021, 33, 092106. | 1.6 | 5 |
| 13 | Additive-free organic solar cells with enhanced efficiency enabled by unidirectional printing flow of high shear rate. Organic Electronics, 2021, 97, 106274. | 1.4 | 10 |
| 14 | Challenges in simulating and modeling the airborne virus transmission: A state-of-the-art review. Physics of Fluids, 2021, 33, 101302. | 1.6 | 24 |
| 15 | Organic Photovoltaics Printed via Sheet Electrospray Enabled by Quadrupole Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 56375-56384. | 4.0 | 9 |
| 16 | Optofluidic Resonance of a Transparent Liquid Jet Excited by a Continuous Wave Laser. Physical Review Letters, 2021, 127, 244502. | 2.9 | 12 |
| 17 | Soft Porous Blade Printing of Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25843-25852. | 4.0 | 17 |
| 18 | Multiplexed electrospray emitters fabricated by rapid laser micromachining. Journal of Aerosol Science, 2020, 150, 105616. | 1.8 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Two dimensional liquid flow focusing. Physics of Fluids, 2020, 32, . | 1.6 | 4 |
| 20 | Efficient Non-Fullerene Organic Photovoltaics Printed by Electrospray via Solvent Engineering. ACS Applied Materials & Interfaces, 2020, 12, 27405-27415. | 4.0 | 20 |
| 21 | Printing photovoltaics by electrospray. Opto-Electronic Advances, 2020, 3, 190038-190038. | 6.4 | 20 |
| 22 | Weakly charged droplets fundamentally change impact dynamics on flat surfaces. Soft Matter, 2019, 15, 5548-5553. | 1.2 | 20 |
| 23 | Charged Satellite Drop Avoidance in Electrohydrodynamic Dripping. Micromachines, 2019, 10, 172. | 1.4 | 5 |
| 24 | Synthetic CT Generation Based on T2 Weighted MRI of Nasopharyngeal Carcinoma (NPC) Using a Deep Convolutional Neural Network (DCNN). Frontiers in Oncology, 2019, 9, 1333. | 1.3 | 46 |
| 25 | Effect of transport processes on ignition of stretched diffusion flames using laser spark. International Journal of Heat and Mass Transfer, 2018, 123, 988-993. | 2.5 | 2 |
| 26 | Morphology and electrical characteristics of polymer: Fullerene films deposited by electrospray. Solar Energy Materials and Solar Cells, 2018, 183, 137-145. | 3.0 | 11 |
| 27 | All electrospray printed perovskite solar cells. Nano Energy, 2018, 53, 440-448. | 8.2 | 46 |
| 28 | Advances in infrared GRIN: a review of novel materials towards components and devices. , 2018, , . | | 5 |
| 29 | Nanostructured Semiconducting Polymer Films with Enhanced Crystallinity and Reorientation of Crystalline Domains by Electrospray Deposition. Macromolecular Materials and Engineering, 2017, 302, 1700090. | 1.7 | 6 |
| 30 | In situ preparation of hierarchically structured dual-layer TiO2 films by E-spray method for efficient dye-sensitized solar cells. Organic Electronics, 2017, 49, 135-141. | 1.4 | 15 |
| 31 | Electrospray deposition of quantum dot-doped Ge23Sb7S70 chalcogenide glass films. Thin Solid Films, 2017, 626, 194-199. | 0.8 | 13 |
| 32 | Paper-based electrospray emitters. Journal of Aerosol Science, 2017, 113, 108-113. | 1.8 | 6 |
| 33 | Direct Electrospray Printing of Gradient Refractive Index Chalcogenide Glass Films. ACS Applied Materials & Interfaces, 2017, 9, 26990-26995. | 4.0 | 27 |
| 34 | Effects of internal circulation and particle mobility during nanofluid droplet evaporation. International Journal of Heat and Mass Transfer, 2016, 103, 1335-1347. | 2.5 | 17 |
| 35 | Pinhole formation from liquid metal microdroplets impact on solid surfaces. Applied Physics Letters, 2016, 108, . | 1.5 | 37 |
| 36 | Effects of insoluble nano-particles on nanofluid droplet evaporation. International Journal of Heat and Mass Transfer, 2016, 97, 725-734. | 2.5 | 45 |

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|---|---|---|---|
| 37 | Generation of monodisperse aerosols by combining aerodynamic flow-focusing and mechanical perturbation. Aerosol Science and Technology, 2016, 50, 17-25. | 1.5 | 17 |
| 38 | Electrospray Deposition of Uniform Thickness Ge<sub>23</sub>Sb<sub>7</sub>S<sub>70</sub> and As<sub>40</sub>S<sub>60</sub> Chalcogenide Glass Films. Journal of Visualized Experiments, 2016, , . | 0.2 | 6 |
| 39 | Gas-focused liquid microjets from a slit. Physics of Fluids, 2015, 27, . | 1.6 | 4 |
| 40 | Deposition of Ge23Sb7S70 chalcogenide glass films by electrospray. Thin Solid Films, 2015, 588, 56-60. | 0.8 | 21 |
| 41 | A Flexible, metallic electrospray emitter with embedded flow homogenizer. , 2015, , . | | 2 |
| 42 | Effects of DamkhÃ¶ler number of evaporation on the morphology of active layer and the performance of organic heterojunction solar cells fabricated by electrospray method. Solar Energy Materials and Solar Cells, 2015, 134, 140-147. | 3.0 | 25 |
| 43 | Crossover of Varicose and Whipping Instabilities in Electrified Microjets. Physical Review Letters, 2014, 112, 054501. | 2.9 | 49 |
| 44 | Enhancement of the performance of organic solar cells by electrospray deposition with optimal solvent system. Solar Energy Materials and Solar Cells, 2014, 121, 119-125. | 3.0 | 49 |
| 45 | Ballpoint pen tips as robust cone-jet electrospray emitters. Journal of Aerosol Science, 2014, 77, 10-15. | 1.8 | 15 |
| 46 | Scalable Generation of Strictly Monodisperse Droplets by Transverse Electrohydrodynamic Excitations. Aerosol Science and Technology, 2013, 47, 1174-1179. | 1.5 | 4 |
| 47 | Electrospray Dense Suspensions of TiO<sub>2</sub>Nanoparticles for Dye Sensitized Solar Cells. Aerosol Science and Technology, 2013, 47, 1302-1309. | 1.5 | 23 |
| 48 | Near-Field Electrospray Microprinting of Polymer-Derived Ceramics. Journal of Microelectromechanical Systems, 2013, 22, 1-3. | 1.7 | 29 |
| 49 | Design, Fabrication, and Characterization of Linear Multiplexed Electrospray Atomizers Micro-Machined from Metal and Polymers. Aerosol Science and Technology, 2013, 47, 146-152. | 1.5 | 29 |
| 50 | Interactions and deposition patterns of multiplexed electrosprays. Journal of Aerosol Science, 2012, 46, 20-33. | 1.8 | 39 |
| 51 | Full transient response of Taylor cones to a step change in electric field. Microfluidics and Nanofluidics, 2012, 12, 383-393. | 1.0 | 25 |
| 52 | Electrospray as a Fabrication Tool in Organic Photovoltaics. Reviews in Nanoscience and Nanotechnology, 2012, 1, 172-186. | 0.4 | 15 |
| 53 | Electrospray cooling for microelectronics. International Journal of Heat and Mass Transfer, 2011, 54, 2270-2275. | 2.5 | 109 |
| 54 | Controlling the morphology of electrospray-generated PLGA microparticles for drug delivery. Journal of Colloid and Interface Science, 2010, 343, 125-133. | 5.0 | 226 |

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|---|---|---|---|
| 55 | The role of electric charge in microdroplets impacting on conducting surfaces. Physics of Fluids, 2010, 22, . | 1.6 | 55 |
| 56 | Digital electrospray for controlled deposition. Review of Scientific Instruments, 2010, 81, 035114. | 0.6 | 17 |
| 57 | Compact multiplexing of monodisperse electrosprays. Journal of Aerosol Science, 2009, 40, 907-918. | 1.8 | 131 |
| 58 | MICROFABRICATED HIGH DENSITY MULTIPLEXED ELECTROSPRAY. , 2008, , . | | 3 |
| 59 | Influence of space charge on the scale-up of multiplexed electrosprays. Journal of Aerosol Science, 2007, 38, 1062-1078. | 1.8 | 80 |
| 60 | Liquid fuel microcombustor using microfabricated multiplexed electrospray sources. Proceedings of the Combustion Institute, 2007, 31, 2239-2246. | 2.4 | 60 |
| 61 | Increase of electrospray throughput using multiplexed microfabricated sources for the scalable generation of monodisperse droplets. Journal of Aerosol Science, 2006, 37, 696-714. | 1.8 | 275 |
| 62 | Stabilization of monodisperse electrosprays in the multi-jet mode via electric field enhancement. Journal of Aerosol Science, 2006, 37, 306-322. | 1.8 | 59 |
| 63 | Study on Arc Movement in Hollow Electrode Plasma Generators with Impressed Double Magnetic Fields. Plasma Chemistry and Plasma Processing, 2004, 24, 73-84. | 1.1 | 1 |
| 64 | Study on mechanism of Câ€“H radicalsâ€™ recombination into acetylene in the process of coal pyrolysis in hydrogen plasma. Thin Solid Films, 2001, 390, 170-174. | 0.8 | 6 |