

Xiang Wang

List of Publications by Year in descending order

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75
papers

1,046
citations

394421

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454955

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docs citations

77
times ranked

973
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Directional Water Transport Janus Composite Nanofiber Membranes for Comfortable Bioprotection. <i>Langmuir</i> , 2022, 38, 309-319. | 3.5 | 23 |
| 2 | Recognition of jet modes in electrohydrodynamic direct-writing based on image segmentation. <i>Modern Physics Letters B</i> , 2022, 36, . | 1.9 | 1 |
| 3 | Multistage-Split Ultrafine Fluffy Nanofibrous Membrane for High-Efficiency Antibacterial Air Filtration. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18989-19001. | 8.0 | 42 |
| 4 | Surfaced-modified TiO ₂ Nanofibers with Enhanced Photodegradation Under Visible Light. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1475-1481. | 2.6 | 4 |
| 5 | High-aspect-ratio three-dimensional electrospinning via a tip guiding electrode. <i>Materials and Design</i> , 2021, 198, 109304. | 7.0 | 26 |
| 6 | Three-dimensional composite electrospun nanofibrous membrane by multi-jet electrospinning with sheath gas for high-efficiency antibiosis air filtration. <i>Nanotechnology</i> , 2021, 32, 245707. | 2.6 | 15 |
| 7 | Research on Melt Electrowriting TPU Hydrophobic Microfiber Mesh for Directional Water Transport. , 2021, , . | | 1 |
| 8 | Fabrication of Multi-oriented Composite Nanofibrous Membrane by Electrospinning. , 2021, , . | | 0 |
| 9 | Electrospun Polyimide Nanofiber Separators for Lithium-ion Batteries. , 2021, , . | | 0 |
| 10 | Sinusoidal AC-induced electrohydrodynamic direct-writing nanofibers on insulating collector. <i>Modern Physics Letters B</i> , 2021, 35, 2140009. | 1.9 | 1 |
| 11 | Preparation of Flame-retardant Lithium-ion Battery Separator by Coaxial Electrospinning. , 2021, , . | | 0 |
| 12 | Melt electrowriting stacked architectures with high aspect ratio. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1. | 2.3 | 7 |
| 13 | Formation of suspending beads-on-a-string structure in electrohydrodynamic printing process. <i>Materials and Design</i> , 2021, 204, 109692. | 7.0 | 6 |
| 14 | Self-Supporting Three-Dimensional Electrospun Nanofibrous Membrane for Highly Efficient Air Filtration. <i>Nanomaterials</i> , 2021, 11, 2567. | 4.1 | 15 |
| 15 | Directional Transportation in a Self-Pumping Dressing Based on a Melt Electrospinning Hydrophobic Mesh. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5918-5926. | 5.2 | 23 |
| 16 | Arced Multi-Nozzle Electrospinning Spinneret for High-Throughput Production of Nanofibers. <i>Micromachines</i> , 2020, 11, 27. | 2.9 | 18 |
| 17 | Self-Powered Electrospun Composite Nanofiber Membrane for Highly Efficient Air Filtration. <i>Nanomaterials</i> , 2020, 10, 1706. | 4.1 | 39 |
| 18 | Precise Electrohydrodynamic Direct-Write Micro-Droplets Based on a Designed Sinusoidal High-Voltage AC Power. <i>Instruments</i> , 2020, 4, 7. | 1.8 | 4 |

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|----|---|-----|-----------|
| 19 | Jet Mode Recognition of Electrohydrodynamic Direct-Writing Based on Micro/Nano Current. <i>Micromachines</i> , 2020, 11, 128. | 2.9 | 7 |
| 20 | Nanofiber membranes by multi-jet electrospinning arranged as arc-array with sheath gas for electro dialysis applications. <i>Materials and Design</i> , 2020, 189, 108504. | 7.0 | 27 |
| 21 | Measurement and Time Response of Electrohydrodynamic Direct-Writing Current. <i>Micromachines</i> , 2019, 10, 90. | 2.9 | 9 |
| 22 | Multinozzle high efficiency electrospinning with the constraint of sheath gas. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47574. | 2.6 | 24 |
| 23 | Orderly deposition of multi-layer nanofibrous membrane by electrohydrodynamic direct writing. <i>Micro and Nano Letters</i> , 2019, 14, 458-461. | 1.3 | 0 |
| 24 | Jet behaviors and ejection mode recognition of electrohydrodynamic direct-write. <i>AIP Advances</i> , 2018, 8, 015122. | 1.3 | 8 |
| 25 | Printing of highly conductive solution by alternating current electrohydrodynamic direct-write. <i>Journal of Physics: Conference Series</i> , 2018, 986, 012027. | 0.4 | 6 |
| 26 | Design of Airflow Assisted Spinneret for Electrohydrodynamic Direct-Writing. , 2018, , . | | 0 |
| 27 | A Highly Robust Out-of-Plane Electrostatic Vibration Energy Harvester with Wide Bandwidth. , 2018, , . | | 1 |
| 28 | Fabrication of Uniform Patterns via Constant-Current Electrohydrodynamic Printing. , 2018, , . | | 0 |
| 29 | A Highly Robust Out-of-Plane Electrostatic Vibration Energy Harvester with Wide Bandwidth. , 2018, , . | | 0 |
| 30 | Electrospun Three-Dimensional Nanofibrous Structure via Probe Arrays Inducing. , 2018, , . | | 0 |
| 31 | Fabrication of Solder Balls via Electromagnetic Jetting. , 2018, , . | | 1 |
| 32 | Electrospun Three-Dimensional Nanofibrous Structure via Probe Arrays Inducing. <i>Micromachines</i> , 2018, 9, 427. | 2.9 | 8 |
| 33 | Electrohydrodynamic Direct-Writing Micropatterns with Assisted Airflow. <i>Micromachines</i> , 2018, 9, 456. | 2.9 | 16 |
| 34 | Orderly Multi-Layer Nanofibrous Membrane Direct-Written by Electrohydrodynamic Printing. , 2018, , . | | 0 |
| 35 | Current characteristics of stable cone-jet in electrohydrodynamic printing process. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1. | 2.3 | 8 |
| 36 | Zein Increases the Cytoaffinity and Biodegradability of Scaffolds 3D-Printed with Zein and Poly(μ -caprolactone) Composite Ink. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18551-18559. | 8.0 | 60 |

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|----|--|-----|-----------|
| 37 | Continuous Near-Field Electro spraying Using a Glass Capillary Nozzle. <i>Micromachines</i> , 2018, 9, 56. | 2.9 | 1 |
| 38 | Electrospray Deposition of ZnO Thin Films and Its Application to Gas Sensors. <i>Micromachines</i> , 2018, 9, 66. | 2.9 | 18 |
| 39 | Controlling of Electrospray Deposition for Micropatterns. <i>Micromachines</i> , 2018, 9, 72. | 2.9 | 9 |
| 40 | Self-cleaning threaded rod spinneret for high-efficiency needleless electro spinning. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1. | 2.3 | 26 |
| 41 | Motion planning implemented in ROS for mobile robot. , 2017, , . | | 7 |
| 42 | Electro spinning jet behaviors under the constraints of a sheath gas. <i>AIP Advances</i> , 2016, 6, . | 1.3 | 14 |
| 43 | Fabrication of micro-patterns via near-field electro spray. <i>AIP Advances</i> , 2016, 6, 115002. | 1.3 | 7 |
| 44 | Thin film zinc oxide gas sensor fabricated using near-field electro spray. <i>AIP Advances</i> , 2016, 6, 125306. | 1.3 | 21 |
| 45 | Rheology behaviors of stable electrohydrodynamic direct-write jet. <i>AIP Advances</i> , 2016, 6, . | 1.3 | 6 |
| 46 | A piezoelectric vibration energy harvester using multiple nonlinear techniques. , 2016, , . | | 0 |
| 47 | Electrohydrodynamic direct-writing microfiber patterns under stretching. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1. | 2.3 | 31 |
| 48 | Current characteristics of various ejection modes in electrohydrodynamic printing. <i>AIP Advances</i> , 2015, 5, 127120. | 1.3 | 11 |
| 49 | Initial Jet Before the Onset of Effective Electro spinning of Polymeric Nanofibers. <i>The Open Mechanical Engineering Journal</i> , 2015, 9, 666-669. | 0.3 | 2 |
| 50 | Electrohydrodynamic direct-writing of conductor-insulator-conductor multi-layer interconnection. <i>Chinese Physics B</i> , 2014, 23, 066102. | 1.4 | 21 |
| 51 | Alternating Current Electrohydrodynamic Printing of Microdroplets. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7. | 2.7 | 3 |
| 52 | Electrohydrodynamic Direct-Write Orderly Micro/Nanofibrous Structure on Flexible Insulating Substrate. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7. | 2.7 | 8 |
| 53 | Fabrication and morphological control of electro spun ethyl cellulose nanofibers. , 2013, , . | | 2 |
| 54 | Electrohydrodynamic direct-writing ZnO nanofibers for device applications. <i>Materials Letters</i> , 2013, 109, 58-61. | 2.6 | 36 |

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|----|---|-----|-----------|
| 55 | Electrospun nickel oxide nanofibers for gas sensor application. , 2013, , . | | 3 |
| 56 | An improved tip-less electrospinning with strip-distributed solution delivery for massive production of uniform polymer nanofibers. Materials Letters, 2013, 99, 21-23. | 2.6 | 20 |
| 57 | Spectroscopic evidence for a high fraction of ferroelectric phase induced in electrospun polyvinylidene fluoride fibers. RSC Advances, 2013, 3, 24952. | 3.6 | 85 |
| 58 | Pattern stretchable micro-nano thin film via Electrohydrodynamic Direct-Writing. , 2013, , . | | 0 |
| 59 | Design and Fabrication of an Improved MEMS-Based Piezoresistive Pressure Sensor. Advanced Materials Research, 2012, 482-484, 318-321. | 0.3 | 3 |
| 60 | Conductive micro silver wires via aerosol deposition. , 2012, , . | | 1 |
| 61 | Fabrication of nanochannels via near-field electrospinning. Applied Physics A: Materials Science and Processing, 2012, 108, 825-828. | 2.3 | 40 |
| 62 | Pulsed electrohydrodynamic printing of conductive silver patterns on demand. Science China Technological Sciences, 2012, 55, 1603-1607. | 4.0 | 40 |
| 63 | Fabrication of micro/nanometer-channel by Near-Field ElectroSpinning. , 2011, , . | | 1 |
| 64 | Electrohydrodynamic Deposition of Polymeric Droplets under Low-Frequency Pulsation. Langmuir, 2011, 27, 6541-6548. | 3.5 | 50 |
| 65 | Direct-writing organic three-dimensional nanofibrous structure. Applied Physics A: Materials Science and Processing, 2011, 102, 457-461. | 2.3 | 27 |
| 66 | Directly electrospun ultrafine nanofibres with Cu grid spinneret. Journal Physics D: Applied Physics, 2011, 44, 135502. | 2.8 | 14 |
| 67 | Stresses dominate pulsed electrohydrodynamic spraying modes in near field. , 2011, , . | | 0 |
| 68 | Research on the figure of merit for PVA nanofibrous membrane filters. , 2010, , . | | 0 |
| 69 | Jetting frequency vs voltage frequency in the low-frequency pulsation mode of electrohydrodynamic printing. , 2010, , . | | 1 |
| 70 | Study on the air filtration performance of nanofibrous membranes compared with conventional fibrous filters. , 2010, , . | | 9 |
| 71 | Experiment and simulation of coiled nanofiber deposition behavior from near-field electrospinning. , 2010, , . | | 6 |
| 72 | Precision deposition of a nanofibre by near-field electrospinning. Journal Physics D: Applied Physics, 2010, 43, 415501. | 2.8 | 119 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Buckling nanofiber on patterned substrate from near-field electrospinning. , 2010, , . | | 1 |
| 74 | Electrohydrodynamic Printing of Conductive Patterns on Glass Slides. Key Engineering Materials, 0, 483, 251-254. | 0.4 | 0 |
| 75 | Ejection and Motion Behaviors Simulation for Multi-Jet Electrospinning. Key Engineering Materials, 0, 645-646, 281-286. | 0.4 | 1 |