

# Gaofeng Zheng

## List of Publications by Year in descending order

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103  
papers

1,356  
citations

361413

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414414

32  
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106  
all docs

106  
docs citations

106  
times ranked

1289  
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 &amp; Interfaces</i> , 2022, 14, 18989-19001.	8.0	42
4	Surface-modified TiO <sub>2</sub> 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	Sinusoidal AC-induced electrohydrodynamic direct-writing nanofibers on insulating collector. <i>Modern Physics Letters B</i> , 2021, 35, 2140009.	1.9	1
8	Surface Functionalization of PEO Nanofibers Using a TiO <sub>2</sub> Suspension as Sheath Fluid in a Modified Coaxial Electrospinning Process. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 571-577.	2.6	16
9	Melt electrowriting stacked architectures with high aspect ratio. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	7
10	Formation of suspending beads-on-a-string structure in electrohydrodynamic printing process. <i>Materials and Design</i> , 2021, 204, 109692.	7.0	6
11	Electrohydrodynamic 3D printing of orderly carbon/nickel composite network as supercapacitor electrodes. <i>Journal of Materials Science and Technology</i> , 2021, 82, 135-143.	10.7	19
12	Self-Supporting Three-Dimensional Electrospun Nanofibrous Membrane for Highly Efficient Air Filtration. <i>Nanomaterials</i> , 2021, 11, 2567.	4.1	15
13	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
14	The Effect of rGO-Doping on the Performance of SnO <sub>2</sub> /rGO Flexible Humidity Sensor. <i>Nanomaterials</i> , 2021, 11, 3368.	4.1	15
15	Arced Multi-Nozzle Electrospinning Spinneret for High-Throughput Production of Nanofibers. <i>Micromachines</i> , 2020, 11, 27.	2.9	18
16	Evolution of a Superhydrophobic H59 Brass Surface by Using Laser Texturing via Post Thermal Annealing. <i>Micromachines</i> , 2020, 11, 1057.	2.9	0
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	Highly efficient air-assisted multi-jet electrospinning with curved arranged spinnerets. AIP Advances, 2020, 10, .	1.3	4
20	Jet Mode Recognition of Electrohydrodynamic Direct-Writing Based on Micro/Nano Current. Micromachines, 2020, 11, 128.	2.9	7
21	Nanofiber membranes by multi-jet electrospinning arranged as arc-array with sheath gas for electro dialysis applications. Materials and Design, 2020, 189, 108504.	7.0	27
22	Near-Field Electrospinning. , 2019, , 283-319.		9
23	Measurement and Time Response of Electrohydrodynamic Direct-Writing Current. Micromachines, 2019, 10, 90.	2.9	9
24	Multinozzle high efficiency electrospinning with the constraint of sheath gas. Journal of Applied Polymer Science, 2019, 136, 47574.	2.6	24
25	Orderly deposition of multi-layer nanofibrous membrane by electrohydrodynamic direct writing. Micro and Nano Letters, 2019, 14, 458-461.	1.3	0
26	Characteristic Parameters Affecting the Filtration Performance in Fibrous Porous Media. , 2019, , .		0
27	Electric-field triggered, on-demand formation of sub-femtoliter droplets. Sensors and Actuators B: Chemical, 2018, 260, 541-553.	7.8	8
28	Jet behaviors and ejection mode recognition of electrohydrodynamic direct-write. AIP Advances, 2018, 8, 015122.	1.3	8
29	Printing of highly conductive solution by alternating current electrohydrodynamic direct-write. Journal of Physics: Conference Series, 2018, 986, 012027.	0.4	6
30	Electrospun Chitosan Nanofiber Membrane for Adsorption of Cu(II) from Aqueous Solution: Fabrication, Characterization and Performance. Journal of Nanoscience and Nanotechnology, 2018, 18, 5624-5635.	0.9	39
31	Design of Airflow Assisted Spinneret for Electrohydrodynamic Direct-Writing. , 2018, , .		0
32	Fabrication of Uniform Patterns via Constant-Current Electrohydrodynamic Printing. , 2018, , .		0
33	Electrospun Three-Dimensional Nanofibrous Structure via Probe Arrays Inducing. Micromachines, 2018, 9, 427.	2.9	8
34	Electrohydrodynamic Direct-Writing Micropatterns with Assisted Airflow. Micromachines, 2018, 9, 456.	2.9	16
35	Current characteristics of stable cone-jet in electrohydrodynamic printing process. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	8
36	Predictable Particle Engineering: Programming the Energy Level, Carrier Generation, and Conductivity of Core-Shell Particles. Journal of the American Chemical Society, 2018, 140, 7629-7636.	13.7	34

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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	Laser-Induced-Plasma-Assisted Ablation and Metallization on C-Plane Single Crystal Sapphire (c-Al <sub>2</sub> O <sub>3</sub> ). <i>Micromachines</i> , 2017, 8, 300.	2.9	20
42	The Remote and High Precision Current Control System of Multiple High Power LEDs. , 2017, , .		0
43	A Study on the Influence of the Nozzle Lead Angle on the Performance of Liquid Metal Electromagnetic Micro-Jetting. <i>Micromachines</i> , 2016, 7, 220.	2.9	2
44	3d printing stereo networks microfluidic concentration gradient chip. , 2016, , .		0
45	Electro spinning jet behaviors under the constraints of a sheath gas. <i>AIP Advances</i> , 2016, 6, .	1.3	14
46	Fabrication of micro-patterns via near-field electro spray. <i>AIP Advances</i> , 2016, 6, 115002.	1.3	7
47	Thin film zinc oxide gas sensor fabricated using near-field electro spray. <i>AIP Advances</i> , 2016, 6, 125306.	1.3	21
48	Electrohydrodynamic direct-writing orderly pattern with sheath gas focusing. <i>AIP Advances</i> , 2016, 6, 115304.	1.3	10
49	Rheology behaviors of stable electrohydrodynamic direct-write jet. <i>AIP Advances</i> , 2016, 6, .	1.3	6
50	Fabrication of three-dimensional nanofibrous macrostructures by electro spinning. <i>AIP Advances</i> , 2016, 6, 055304.	1.3	16
51	Bead-on-string structure printed by electrohydrodynamic jet under alternating current electric field. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	13
52	Glass frit bonding with controlled width and height using a two-step wet silicon etching procedure. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 035018.	2.6	5
53	Electrohydrodynamic direct-writing microfiber patterns under stretching. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	31
54	Nanostructures by Electro spinning. , 2016, , 2788-2797.		0

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55	Current characteristics of various ejection modes in electrohydrodynamic printing. AIP Advances, 2015, 5, 127120.	1.3	11
56	Electrospinning-induced preferred dipole orientation in PVDF fibers. Journal of Materials Science, 2015, 50, 4342-4347.	3.7	86
57	Initial Jet Before the Onset of Effective Electrospinning of Polymeric Nanofibers. The Open Mechanical Engineering Journal, 2015, 9, 666-669.	0.3	2
58	Nanostructures by Electrospinning. , 2015, , 1-10.		0
59	Electrohydrodynamic direct-writing of conductor-insulator-conductor multi-layer interconnection. Chinese Physics B, 2014, 23, 066102.	1.4	21
60	Simulation and experiment study on adhesive ejection behavior in jetting dispenser. Journal of Adhesion Science and Technology, 2014, 28, 53-64.	2.6	23
61	Alternating Current Electrohydrodynamic Printing of Microdroplets. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	3
62	The Effect of Surfactants on the Diameter and Morphology of Electrospun Ultrafine Nanofiber. Journal of Nanomaterials, 2014, 2014, 1-9.	2.7	43
63	Electrohydrodynamic Direct-Write Orderly Micro/Nanofibrous Structure on Flexible Insulating Substrate. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	8
64	Multi spinnerets electrospinning with assistant sheath gas. , 2014, , .		2
65	Electrohydrodynamic direct-writing of three-dimensional multi-loop nanofibrous coils. Applied Physics A: Materials Science and Processing, 2014, 116, 171-177.	2.3	21
66	Electrospun zinc oxide nanofibrous gas sensors for alcohol and acetone. Guangxue Jingmi Gongcheng/Optics and Precision Engineering, 2014, 22, 1555-1561.	0.5	7
67	Fabrication and morphological control of electrospun ethyl cellulose nanofibers. , 2013, , .		2
68	Electrohydrodynamic direct-writing ZnO nanofibers for device applications. Materials Letters, 2013, 109, 58-61.	2.6	36
69	Electrospun nickel oxide nanofibers for gas sensor application. , 2013, , .		3
70	Micro/nano structure written via sheath gas assisted EHD jet. , 2013, , .		0
71	Spectroscopic evidence for a high fraction of ferroelectric phase induced in electrospun polyvinylidene fluoride fibers. RSC Advances, 2013, 3, 24952.	3.6	85
72	Electrohydrodynamic Printing via Spinneret with Conductive Probe. Key Engineering Materials, 2013, 562-565, 1155-1160.	0.4	0

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73	Pattern stretchable micro-nano thin film via Electrohydrodynamic Direct-Writing. , 2013, , .		0
74	Improving the performance of IPMCs with a gradient in thickness. Smart Materials and Structures, 2013, 22, 115035.	3.5	11
75	Electrohydrodynamic impulse printing PANI sensor for NH3 gas. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2012, 226, 9-13.	0.1	0
76	Conductive micro silver wires via aerosol deposition. , 2012, , .		1
77	Fabrication of nanochannels via near-field electrospinning. Applied Physics A: Materials Science and Processing, 2012, 108, 825-828.	2.3	40
78	Pulsed electrohydrodynamic printing of conductive silver patterns on demand. Science China Technological Sciences, 2012, 55, 1603-1607.	4.0	40
79	Fabrication of micro/nanometer-channel by Near-Field ElectroSpinning. , 2011, , .		1
80	The Study of Automatic Programming System for Near-Field Electrospinning Direct Write. Advanced Materials Research, 2011, 197-198, 3-7.	0.3	2
81	Direct fabrication of polymer nanofiber membrane for piezoelectric vibration sensor. , 2011, , .		3
82	Direct-writing organic three-dimensional nanofibrous structure. Applied Physics A: Materials Science and Processing, 2011, 102, 457-461.	2.3	27
83	Directly electrospun ultrafine nanofibres with Cu grid spinneret. Journal Physics D: Applied Physics, 2011, 44, 135502.	2.8	14
84	Stresses dominate pulsated electrohydrodynamic spraying modes in near field. , 2011, , .		0
85	Explore on Pressure-Drop Performance of Nanofibrous Filtration Membrane. Advanced Materials Research, 2011, 236-238, 1885-1888.	0.3	0
86	Research on the Advantages of Nanofibrous Air Filtration Membrane. Key Engineering Materials, 2011, 474-476, 2016-2019.	0.4	4
87	Single-step fabrication of organic nanofibrous membrane for piezoelectric vibration sensor. , 2011, , .		3
88	Research on the figure of merit for PVA nanofibrous membrane filters. , 2010, , .		0
89	Study on the air filtration performance of nanofibrous membranes compared with conventional fibrous filters. , 2010, , .		9
90	Experiment and simulation of coiled nanofiber deposition behavior from near-field electrospinning. , 2010, , .		6

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91	Precision deposition of a nanofibre by near-field electrospinning. Journal Physics D: Applied Physics, 2010, 43, 415501.	2.8	119
92	Large-scale patterned nanofibers via tip-less electrospinning. , 2010, , .		2
93	Buckling nanofiber on patterned substrate from near-field electrospinning. , 2010, , .		1
94	Bead-on-string structure formed by electrohydrodynamic printing. , 2010, , .		1
95	Deposition Characteristics of Direct-Write Suspended Micro/Nano-Structures. Advanced Materials Research, 2009, 60-61, 439-444.	0.3	11
96	Numerical Simulation of Viscous Jet for Near-Field Electrospinning. Advanced Materials Research, 2009, 60-61, 465-469.	0.3	2
97	Simulation of Nanofibers Movement for Near-Field Electrospinning. Advanced Materials Research, 2009, 60-61, 456-460.	0.3	4
98	The Behaviors of Direct-Written Nanofibers on Patterned Substrate. , 2008, , .		3
99	Electrospun nanofibrous membrane for air filtration. , 2007, , .		8
100	Direct-Write micro/nano-structure for flexible electronic manufacturing. , 2007, , .		6
101	Electrohydrodynamic Printing of Conductive Patterns on Glass Slides. Key Engineering Materials, 0, 483, 251-254.	0.4	0
102	Closed Loop Dynamic Fuzzy Neural Network for Real-Time Lifetime Forecasting. Advanced Materials Research, 0, 834-836, 1074-1080.	0.3	0
103	Electrohydrodynamic Direct Writing Platform Based on Near-Field Electrospinning. Key Engineering Materials, 0, 562-565, 614-619.	0.4	1