Yongqing Duan

List of Publications by Year
in descending order

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62 papers	3,837 citations	159585 30 h-index	168389 53 g-index
62 all docs	62 docs citations	62 times ranked	4901 citing authors

#	Article	IF	Citations
1	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. Nature Communications, 2014, 5, 4496.	12.8	757
2	Energy Harvesters for Wearable and Stretchable Electronics: From Flexibility to Stretchability. Advanced Materials, 2016, 28, 9881-9919.	21.0	407
3	Inkjet printing for flexible electronics: Materials, processes and equipments. Science Bulletin, 2010, 55, 3383-3407.	1.7	249
4	Electrohydrodynamic direct-writing. Nanoscale, 2013, 5, 12007.	5.6	202
5	Hyper-stretchable self-powered sensors based on electrohydrodynamically printed, self-similar piezoelectric nano/microfibers. Nano Energy, 2017, 40, 432-439.	16.0	150
6	Inâ€Plane Deformation Mechanics for Highly Stretchable Electronics. Advanced Materials, 2017, 29, 1604989.	21.0	141
7	Assembly and applications of 3D conformal electronics on curvilinear surfaces. Materials Horizons, 2019, 6, 642-683.	12.2	141
8	Non-wrinkled, highly stretchable piezoelectric devices by electrohydrodynamic direct-writing. Nanoscale, 2014, 6, 3289.	5.6	129
9	Largeâ€Scale Directâ€Writing of Aligned Nanofibers for Flexible Electronics. Small, 2018, 14, e1703521.	10.0	126
10	Highly sensitive, temperature-dependent gas sensor based on hierarchical ZnO nanorod arrays. Journal of Materials Chemistry C, 2015, 3, 11397-11405.	5.5	105
11	Electrohydrodynamically Printed Highâ€Resolution Fullâ€Color Hybrid Perovskites. Advanced Functional Materials, 2019, 29, 1903294.	14.9	97
12	Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. Advanced Electronic Materials, 2019, 5, 1800900.	5.1	91
13	Elasticity of Fractal Inspired Interconnects. Small, 2015, 11, 367-373.	10.0	84
14	Continuously Tunable and Oriented Nanofiber Direct-Written by Mechano-Electrospinning. Materials and Manufacturing Processes, 2012, 27, 1318-1323.	4.7	78
15	Versatile, kinetically controlled, high precision electrohydrodynamic writing of micro/nanofibers. Scientific Reports, 2014, 4, 5949.	3.3	70
16	Highâ€Resolution, Flexible, and Fullâ€Color Perovskite Image Photodetector via Electrohydrodynamic Printing of Ionicâ€Liquidâ€Based Ink. Advanced Functional Materials, 2021, 31, 2100857.	14.9	61
17	Controllable self-organization of colloid microarrays based on finite length effects of electrospun ribbons. Soft Matter, 2012, 8, 8302.	2.7	49
18	Design and Development of a Spherical Motor for Conformal Printing of Curved Electronics. IEEE Transactions on Industrial Electronics, 2018, 65, 9190-9200.	7.9	49

#	Article	IF	Citations
19	Fabrication Techniques for Curved Electronics on Arbitrary Surfaces. Advanced Materials Technologies, 2020, 5, 2000093.	5.8	47
20	Highâ€Resolution Pixelated Light Emitting Diodes Based on Electrohydrodynamic Printing and Coffeeâ€Ringâ€Free Quantum Dot Film. Advanced Materials Technologies, 2020, 5, 2000401.	5.8	44
21	A patterned ZnO nanorod array/gas sensor fabricated by mechanoelectrospinning-assisted selective growth. Chemical Communications, 2015, 51, 3117-3120.	4.1	41
22	Electrohydrodynamically Printed, Flexible Energy Harvester Using Inâ€...Situ Poled Piezoelectric Nanofibers. Energy Technology, 2015, 3, 351-358.	3.8	38
23	Coffee ring elimination and crystalline control of electrohydrodynamically printed high-viscosity perovskites. Journal of Materials Chemistry C, 2019, 7, 14867-14873.	5.5	38
24	Helix Electrohydrodynamic Printing of Highly Aligned Serpentine Micro/Nanofibers. Polymers, 2017, 9, 434.	4.5	37
25	Flexible small-channel thin-film transistors by electrohydrodynamic lithography. Nanoscale, 2017, 9, 19050-19057.	5.6	36
26	Highâ€Performance, Micrometer Thick/Conformal, Transparent Metalâ€Network Electrodes for Flexible and Curved Electronic Devices. Advanced Materials Technologies, 2018, 3, 1800155.	5.8	36
27	Theoretical and experimental studies of laser lift-off of nonwrinkled ultrathin polyimide film for flexible electronics. Applied Surface Science, 2020, 499, 143910.	6.1	35
28	Experimental Study of the Influence of Ink Properties and Process Parameters on Ejection Volume in Electrohydrodynamic Jet Printing. Micromachines, 2018, 9, 522.	2.9	34
29	Selfâ€Healing Kirigami Assembly Strategy for Conformal Electronics. Advanced Functional Materials, 2022, 32, 2109214.	14.9	34
30	The Conformal Design of an Island-Bridge Structure on a Non-Developable Surface for Stretchable Electronics. Micromachines, 2018, 9, 392.	2.9	33
31	Theoretical and experimental study of 2D conformability of stretchable electronics laminated onto skin. Science China Technological Sciences, 2017, 60, 1415-1422.	4.0	31
32	Experimental study of laser lift-off of ultra-thin polyimide film for flexible electronics. Science China Technological Sciences, 2019, 62, 233-242.	4.0	30
33	Addressable multi-nozzle electrohydrodynamic jet printing with high consistency by multi-level voltage method. AIP Advances, 2015, 5, .	1.3	28
34	Ultra-Stretchable Piezoelectric Nanogenerators via Large-Scale Aligned Fractal Inspired Micro/Nanofibers. Polymers, 2017, 9, 714.	4.5	26
35	Buckling-driven self-assembly of self-similar inspired micro/nanofibers for ultra-stretchable electronics. Soft Matter, 2017, 13, 7244-7254.	2.7	25
36	Numerical investigation of high-frequency pulsating electrohydrodynamic jet at low electric Bond numbers. Physics of Fluids, 2022, 34, .	4.0	21

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37	Near-field behavior of electrified jet under moving substrate constrains. AIP Advances, 2015, 5, .	1.3	20
38	Programmable robotized â€˜transfer-and-jetâ€™ printing for large, 3D curved electronics on complex surfaces. International Journal of Extreme Manufacturing, 2021, 3, 045101.	12.7	20
39	Numerical analysis of electrohydrodynamic jet printing under constant and step change of electric voltages. Physics of Fluids, 2022, 34, .	4.0	20
40	Enhancing pulsed electrohydrodynamic printing frequency via high-order-mode ejection. Physics of Fluids, 2021, 33, .	4.0	19
41	Electrohydrodynamic Direct-Writing for Flexible Electronic Manufacturing. , 2018, , .		18
42	Critical Size/Viscosity for Coffee-Ring-Free Printing of Perovskite Micro/Nanopatterns. ACS Applied Materials & Interfaces, 2022, 14, 14712-14720.	8.0	18
43	Competing buckling of micro/nanowires on compliant substrates. Journal Physics D: Applied Physics, 2015, 48, 045302.	2.8	16
44	Electrohydrodynamically Printed Flexible Organic Memristor for Leaky Integrate and Fire Neuron. IEEE Electron Device Letters, 2022, 43, 116-119.	3.9	16
45	Theoretical and experimental studies of electrostatic focusing for electrohydrodynamic jet printing. Journal of Micromechanics and Microengineering, 2019, 29, 065002.	2.6	14
46	Morphology-programmable self-aligned microlens array for light extraction via electrohydrodynamic printing. Organic Electronics, 2020, 87, 105969.	2.6	14
47	Process Optimization of Mechano-Electrospinning by Response Surface Methodology. Journal of Nanoscience and Nanotechnology, 2014, 14, 3464-3472.	0.9	12
48	Active curved surface deforming of flexible conformal electronics by multi-fingered actuator. Robotics and Computer-Integrated Manufacturing, 2020, 64, 101942.	9.9	11
49	Transfer printing and patterning of stretchable electrospun film. Thin Solid Films, 2013, 544, 152-156.	1.8	8
50	Residual oscillation suppression via waveform optimization for stable electrohydrodynamic drop-on-demand printing. Additive Manufacturing, 2022, 55, 102849.	3.0	6
51	Analytical investigation on thermal-induced warpage behavior of ultrathin chip-on-flex (UTCOF) assembly. Science China Technological Sciences, 2016, 59, 1646-1655.	4.0	5
52	Charged Satellite Drop Avoidance in Electrohydrodynamic Dripping. Micromachines, 2019, 10, 172.	2.9	5
53	Enhanced geometric precision of non-contact, conformal 3D printing via â€œerror-transferredâ€• towards jetting-direction. Precision Engineering, 2021, 72, 1-12.	3.4	5
54	Mechano-electrospinning (MES). , 2018, , 31-65.		3

#	Article	IF	Citations
55	Inks for EHD Printing. , 2018, , 89-116.		2
56	32.2: Multifunctional electrohydrodynamic printing and its industrial applications in flat panel display manufacturing. Digest of Technical Papers SID International Symposium, 2018, 49, 351-354.	0.3	2
57	EHD Equipment and Applications. , 2018, , 157-194.		1
58	Nozzles for EHD Printing. , 2018, , 117-132.		1
59	Electrohydrodynamically Printed Multicolor Perovskite Image Sensor Array. , 2021, , .		1
60	Introduction of Electrohydrodynamic Printing. , 2018, , 1-29.		0
61	Helix Electrohydrodynamic Printing (HE-Printing). , 2018, , 67-88.		0
62	Control Method for EHD Printing. , 2018, , 133-156.		0