

Lingyun Wang

List of Publications by Year in descending order

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62
papers

2,316
citations

236833
25
h-index

243529
44
g-index

62
all docs

62
docs citations

62
times ranked

3560
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoanodes based on TiO_2 and Fe_2O_3 for solar water splitting – superior role of 1D nanoarchitectures and of combined heterostructures. <i>Chemical Society Reviews</i> , 2017, 46, 3716-3769.	18.7	535
2	Carbon Dot Loading and TiO_2 Nanorod Length Dependence of Photoelectrochemical Properties in Carbon Dot/ TiO_2 Nanorod Array Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4883-4890.	4.0	169
3	Carbon dot hybrids with oligomeric silsesquioxane: solid-state luminophores with high photoluminescence quantum yield and applicability in white light emitting devices. <i>Chemical Communications</i> , 2015, 51, 2950-2953.	2.2	125
4	Flexible composite-nanofiber based piezo-triboelectric nanogenerators for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13347-13355.	5.2	120
5	Water tank triboelectric nanogenerator for efficient harvesting of water wave energy over a broad frequency range. <i>Nano Energy</i> , 2018, 44, 388-398.	8.2	91
6	Electrospinning-induced preferred dipole orientation in PVDF fibers. <i>Journal of Materials Science</i> , 2015, 50, 4342-4347.	1.7	86
7	Spectroscopic evidence for a high fraction of ferroelectric phase induced in electrospun polyvinylidene fluoride fibers. <i>RSC Advances</i> , 2013, 3, 24952.	1.7	85
8	Hybrid conductive hydrogels for washable human motion energy harvester and self-powered temperature-stress dual sensor. <i>Nano Energy</i> , 2019, 66, 104080.	8.2	85
9	Recent progress on flexible nanogenerators toward self-powered systems. <i>Informa-Materials</i> , 2020, 2, 318-340.	8.5	85
10	Highly Flexible and Transparent Polyionic-Skin Triboelectric Nanogenerator for Biomechanical Motion Harvesting. <i>Advanced Energy Materials</i> , 2019, 9, 1803183.	10.2	72
11	BiOI/TiO_2 -nanorod array heterojunction solar cell: Growth, charge transport kinetics and photoelectrochemical properties. <i>Applied Surface Science</i> , 2015, 324, 532-537.	3.1	60
12	Solvent-free adhesive ionic elastomer for multifunctional stretchable electronics. <i>Nano Energy</i> , 2022, 91, 106611.	8.2	54
13	Thin, Skin-Integrated, Stretchable Triboelectric Nanogenerators for Tactile Sensing. <i>Advanced Electronic Materials</i> , 2020, 6, 1901174.	2.6	53
14	Skin-Integrated Graphene-Embedded Lead Zirconate Titanate Rubber for Energy Harvesting and Mechanical Sensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900744.	3.0	52
15	A paradigm shift fully self-powered long-distance wireless sensing solution enabled by discharge-induced displacement current. <i>Science Advances</i> , 2021, 7, eabi6751.	4.7	50
16	Carbon Dot-Based Composite Films for Simultaneously Harvesting Raindrop Energy and Boosting Solar Energy Conversion Efficiency in Hybrid Cells. <i>ACS Nano</i> , 2020, 14, 10359-10369.	7.3	47
17	A Simple Graphene NH_3 Gas Sensor via Laser Direct Writing. <i>Sensors</i> , 2018, 18, 4405.	2.1	46
18	A metal-electrode-free, fully integrated, soft triboelectric sensor array for self-powered tactile sensing. <i>Microsystems and Nanoengineering</i> , 2020, 6, 59.	3.4	45

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19	Tribo-charge enhanced hybrid air filter masks for efficient particulate matter capture with greatly extended service life. <i>Nano Energy</i> , 2021, 85, 106015.	8.2	43
20	Photoelectrochemical and structural properties of TiO ₂ nanotubes and nanorods grown on FTO substrate: Comparative study between electrochemical anodization and hydrothermal method used for the nanostructures fabrication. <i>Catalysis Today</i> , 2017, 287, 130-136.	2.2	42
21	Nanostar morphology of plasmonic particles strongly enhances photoelectrochemical water splitting of TiO ₂ nanorods with superior incident photon-to-current conversion efficiency in visible/near-infrared region. <i>Electrochimica Acta</i> , 2018, 260, 212-220.	2.6	38
22	Ln ³⁺ -mediated formation of luminescent ionogels. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1607.	2.7	36
23	High power-output mechanical energy harvester based on flexible and transparent Au nanoparticle-embedded polymer matrix. <i>Nano Energy</i> , 2019, 55, 433-440.	8.2	36
24	Highly luminescent Eu ³⁺ -exchanged zeolite L crystals resulting from modification with silylated ̢ ² -diketone. <i>Journal of Materials Chemistry</i> , 2012, 22, 9338.	6.7	29
25	Development of a Microforce Sensor and Its Array Platform for Robotic Cell Microinjection Force Measurement. <i>Sensors</i> , 2016, 16, 483.	2.1	25
26	Simulation and experiment study on adhesive ejection behavior in jetting dispenser. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 53-64.	1.4	23
27	Mechanical energy harvester based on cashmere fibers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11198-11204.	5.2	22
28	Shoepad nanogenerator based on electrospun PVDF nanofibers. <i>Microsystem Technologies</i> , 2019, 25, 3151-3156.	1.2	16
29	A Remote-Controlled Robotic System with Safety Protection Strategy Based on Force-Sensing and Bending Feedback for Transcatheter Arterial Chemoembolization. <i>Micromachines</i> , 2020, 11, 805.	1.4	16
30	Laterally Driven Resonant Pressure Sensor with Etched Silicon Dual Diaphragms and Combined Beams. <i>Sensors</i> , 2016, 16, 158.	2.1	14
31	Biomimetic Beetle-Inspired Flapping Air Vehicle Actuated by Ionic Polymer-Metal Composite Actuator. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-7.	0.5	14
32	Predicting Polymorphism of Electrospun Polyvinylidene Fluoride Membranes by Their Morphologies. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 91-101.	0.4	13
33	Boosting current output of triboelectric nanogenerator by two orders of magnitude via hindering interfacial charge recombination. <i>Nano Energy</i> , 2021, 89, 106315.	8.2	11
34	Improve the Performance of Mechanoelectrical Transduction of Ionic Polymer-Metal Composites Based on Ordered Nafion Nanofibres by Electrospinning. <i>Polymers</i> , 2018, 10, 803.	2.0	9
35	Effect of Enhanced Squeezing Needle Structure on the Jetting Performance of a Piezostack-Driven Dispenser. <i>Micromachines</i> , 2019, 10, 850.	1.4	9
36	UV-Induced Photocatalytic Cashmere Fibers. <i>Materials</i> , 2017, 10, 1414.	1.3	8

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37	High-Q Wafer Level Package Based on Modified Tri-Layer Anodic Bonding and High Performance Getter and Its Evaluation for Micro Resonant Pressure Sensor. <i>Sensors</i> , 2017, 17, 599.	2.1	8
38	Application of Aerosol Jet technology in through-via interconnection for MEMS wafer-level packaging. <i>Microsystem Technologies</i> , 2015, 21, 451-455.	1.2	7
39	Direct-Write micro/nano-structure for flexible electronic manufacturing. , 2007, , .		6
40	Design and experiment of a jetting dispenser with compact amplifying mechanism and low stress in piezostack. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 788-798.	1.4	4
41	High-Performance Biomechanical Energy Harvester Enabled by Switching Interfacial Adhesion via Hydrogen Bonding and Phase Separation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	4
42	Direct fabrication of polymer nanofiber membrane for piezoelectric vibration sensor. , 2011, , .		3
43	Nanofibrous Membranes with High Air Permeability and Fluffy Structure based on Low Temperature Electrospinning Technology. <i>Fibers and Polymers</i> , 2020, 21, 1466-1474.	1.1	3
44	Large-scale patterned nanofibers via tip-less electrospinning. , 2010, , .		2
45	A novel bulk micromachined tunneling gyroscope. , 2011, , .		2
46	Design and simulation of fully-symmetrical resonant pressure sensor. , 2012, , .		2
47	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.	1.4	2
48	Vibration modes interference in the MEMS resonant pressure sensor. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750223.	1.0	2
49	Shorting out bonding method for multi-stack anodic bonding and its application in wafer-level packaging. <i>Modern Physics Letters B</i> , 2020, 34, 2050369.	1.0	2
50	Pattern deposition of electrosprayed polymer nanoparticles. , 2007, , .		1
51	Patterned deposition of PEO nanofibers. , 2009, , .		1
52	Etch-back in DDSOG process by ultrasonic agitation and application to tunneling gyroscope fabrication. , 2009, , .		1
53	Discussion on the lapping and polishing process of 4H-SiC wafer. , 2013, , .		1
54	Piezoelectric properties of PVDF nanofibers via non-uniform field electrospinning. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	A Novel Bonding Architecture Based on AAO. , 2007, , .		0
56	Investigations on electrohydrodynamical drop-on-demand inkjet printing. , 2009, , .		0
57	The LQG controller design for micromachined tunneling gyroscope. , 2010, , .		0
58	Design and simulation of electrostatic inkjet head. , 2010, , .		0
59	Application of nonlinear driving in frequency matching of tunneling gyroscope. , 2012, , .		0
60	Visual servoing methods in robot-assist cell microinjection system. , 2013, , .		0
61	3d printing stereo networks microfluidic concentration gradient chip. , 2016, , .		0
62	Direct writing based on Weissenberg effect. , 2017, , .		0