

Jian Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,375
citations

20
h-index

36
g-index

63
ext. papers

1,718
ext. citations

5.7
avg, IF

4.78
L-index

#	Paper	IF	Citations
53	Rayleigh and shear-horizontal surface acoustic waves simultaneously generated in inclined ZnO films for acoustofluidic lab-on-a-chip. <i>Surface and Coatings Technology</i> , 2022 , 128336	4.4	0
52	ZnO/glass thin film surface acoustic waves for efficient digital acoustofluidics and active surface cleaning. <i>Materials Chemistry and Physics</i> , 2022 , 287, 126290	4.4	
51	Single-Crystalline LiTaO ₃ Film-Based High-Frequency Surface Acoustic Wave Resonators and Electronics Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	
50	Flexible thin-film acoustic wave devices with off-axis bending characteristics for multisensing applications.. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 97	7.7	4
49	Thermodynamics Controlled Sharp Transformation from InP to GaP Nanowires via Introducing Trace Amount of Gallium. <i>Nanoscale Research Letters</i> , 2021 , 16, 49	5	3
48	Enhancing the sensitivity of flexible acoustic wave ultraviolet photodetector with graphene-quantum-dots decorated ZnO nanowires. <i>Sensors and Actuators A: Physical</i> , 2021 , 321, 112590	3.9	11
47	Engineering inclined orientations of piezoelectric films for integrated acoustofluidics and lab-on-a-chip operated in liquid environments. <i>Lab on A Chip</i> , 2021 , 21, 254-271	7.2	9
46	High Performance Acoustic Wave Nitrogen Dioxide Sensor with Ultraviolet Activated 3D Porous Architecture of Ag-Decorated Reduced Graphene Oxide and Polypyrrole Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42094-42103	9.5	8
45	Liquid biopsy to identify biomarkers for immunotherapy in hepatocellular carcinoma.. <i>Biomarker Research</i> , 2021 , 9, 91	8	0
44	Stability studies of ZnO and AlN thin film acoustic wave devices in acid and alkali harsh environments.. <i>RSC Advances</i> , 2020 , 10, 19178-19184	3.7	9
43	Ultrahigh-Frequency Surface Acoustic Wave Sensors with Giant Mass-Loading Effects on Electrodes. <i>ACS Sensors</i> , 2020 , 5, 1657-1664	9.2	19
42	30 GHz surface acoustic wave transducers with extremely high mass sensitivity. <i>Applied Physics Letters</i> , 2020 , 116, 123502	3.4	25
41	Hierarchical Nanotexturing Enables Acoustofluidics on Slippery yet Sticky, Flexible Surfaces. <i>Nano Letters</i> , 2020 , 20, 3263-3270	11.5	23
40	Three-Dimensional Tetrapodal ZnO Microstructured Network Based Flexible Surface Acoustic Wave Device for Ultraviolet and Respiration Monitoring Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1468-1478	5.6	16
39	A high performance surface acoustic wave visible light sensor using novel materials: BiS nanobelts.. <i>RSC Advances</i> , 2020 , 10, 8936-8940	3.7	4
38	Buckled Conductive Polymer Ribbons in Elastomer Channels as Stretchable Fiber Conductor. <i>Advanced Functional Materials</i> , 2020 , 30, 1907316	15.6	21
37	Ultrathin Glass-Based Flexible, Transparent, and Ultrasensitive Surface Acoustic Wave Humidity Sensor with ZnO Nanowires and Graphene Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39817-39825	9.5	30

36	Wrinkle-Enabled Highly Stretchable Strain Sensors for Wide-Range Health Monitoring with a Big Data Cloud Platform. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43009-43017	9.5	27
35	Graphene-Based Fully Transparent Thin Film Surface Acoustic Wave Devices for Sensing and Lab-on-Chip Applications. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B432-B440	3.9	11
34	Nebulization using ZnO/Si surface acoustic wave devices with focused interdigitated transducers. <i>Surface and Coatings Technology</i> , 2019 , 367, 127-134	4.4	13
33	A novel quartz-crystal microbalance humidity sensor based on solution-processible indium oxide quantum dots.. <i>RSC Advances</i> , 2019 , 9, 38531-38537	3.7	2
32	A highly stretchable strain-insensitive temperature sensor exploits the Seebeck effect in nanoparticle-based printed circuits. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24493-24501	13	22
31	Surface acoustic wave devices with graphene interdigitated transducers. <i>Journal of Micromechanics and Microengineering</i> , 2019 , 29, 015006	2	5
30	Coaxial Thermoplastic Elastomer-Wrapped Carbon Nanotube Fibers for Deformable and Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705591	15.6	163
29	Particle contact characteristics of coarse-grained soils under normal contact. <i>European Journal of Environmental and Civil Engineering</i> , 2018 , 22, s114-s129	1.5	3
28	Making a Bilateral Compression/Tension Sensor by Pre-Stretching Open-Crack Networks in Carbon Nanotube Papers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33507-33515	9.5	33
27	High performance 33.7 GHz surface acoustic wave nanotransducers based on AlScN/diamond/Si layered structures. <i>Applied Physics Letters</i> , 2018 , 113, 093503	3.4	13
26	Ultrasensitive, Stretchable Strain Sensors Based on Fragmented Carbon Nanotube Papers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4835-4842	9.5	141
25	Deformable and wearable carbon nanotube microwire-based sensors for ultrasensitive monitoring of strain, pressure and torsion. <i>Nanoscale</i> , 2017 , 9, 604-612	7.7	62
24	Enhanced performance of 17.7 GHz SAW devices based on AlN/diamond/Si layered structure with embedded nanotransducer. <i>Applied Physics Letters</i> , 2017 , 111, 253502	3.4	15
23	Annealing Effect on Structural, Functional, and Device Properties of Flexible ZnO Acoustic Wave Sensors Based on Commercially Available Al Foil. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4535-4541	2.9	11
22	High-capacity conductive polymer microfibers as fast response wearable heaters and electromechanical actuators. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1238-1249	7.1	80
21	Unraveling the Order and Disorder in Poly(3,4-ethylenedioxythiophene)/Poly(styrenesulfonate) Nanofilms. <i>Macromolecules</i> , 2015 , 48, 5688-5696	5.5	40
20	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. <i>Journal of Polymers and the Environment</i> , 2015 , 23, 595-605	4.5	11
19	Application of differential weighting function to spatial filtering velocimetry. <i>Optik</i> , 2015 , 126, 5678-5681	1.5	1

18	Investigating the Inter-Tube Conduction Mechanism in Polycarbonate Nanocomposites Prepared with Conductive Polymer-Coated Carbon Nanotubes. <i>Nanoscale Research Letters</i> , 2015 , 10, 485	5	20
17	Distribution of Side Abutment Stress in Roadway Subjected to Dynamic Pressure and Its Engineering Application. <i>Shock and Vibration</i> , 2015 , 2015, 1-11	1.1	5
16	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2528-2538	7.1	100
15	Bendable transparent ZnO thin film surface acoustic wave strain sensors on ultra-thin flexible glass substrates. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9109-9114	7.1	35
14	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9903-9910	7.1	140
13	The interfaces of lanthanum oxide-based subnanometer EOT gate dielectrics. <i>Nanoscale Research Letters</i> , 2014 , 9, 472	5	20
12	Laser Doppler velocimeter for vehicle application with improved signal-to-noise ratio. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 116, 637-641	1.9	8
11	Transparent Surface Acoustic Wave Devices on ZnO/Glass Using Al-Doped ZnO as the Electrode. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1319-1321	4.4	27
10	Electrically tunable film bulk acoustic resonator based on Au/ZnO/Al structure. <i>Applied Physics Letters</i> , 2013 , 103, 062904	3.4	15
9	Flexible surface acoustic wave resonators built on disposable plastic film for electronics and lab-on-a-chip applications. <i>Scientific Reports</i> , 2013 , 3, 2140	4.9	94
8	Crystalline structure effect on the performance of flexible ZnO/polyimide surface acoustic wave devices. <i>Journal of Applied Physics</i> , 2013 , 114, 044502	2.5	27
7	Effects of High-Temperature Treatment on the Reaction Between Sn-3%Ag-0.5%Cu Solder and Sputtered Ni-V Film on Ferrite Substrate. <i>Journal of Electronic Materials</i> , 2012 , 41, 3145-3151	1.9	1
6	Influence of Substrate Temperature on Structural Properties and Deposition Rate of AlN Thin Film Deposited by Reactive Magnetron Sputtering. <i>Journal of Electronic Materials</i> , 2012 , 41, 1948-1954	1.9	28
5	Effect of film thickness on properties of Al-doped ZnO film as transparent conducting electrodes in OLEDs 2012 ,		1
4	Estimation of parameters of a laser Doppler velocimeter and their Cramer-Rao lower bounds. <i>Applied Optics</i> , 2011 , 50, 4594-603	0.2	1
3	A novel laser Doppler velocimeter. <i>Journal of Modern Optics</i> , 2010 , 57, 2170-2176	1.1	4
2	Monocular trajectory intersection method for 3D motion measurement of a point target. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 3454-3463		6
1	MediaSoC: a system-on-chip architecture for multimedia application		1

