

## List of Publications by Year in descending order

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711  
papers

21,850  
citations

17776

65  
h-index

25983

112  
g-index

721  
all docs

721  
docs citations

721  
times ranked

23486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trifunctional Cu <sub>2</sub> O@FeO Nanorarrays for Highly Efficient Degradation of Antibiotic, Inactivation of Antibiotic-Resistant Bacteria, and Damage of Antibiotics Resistance Genes. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	10
2	Integrated Sensing and Acoustofluidic Functions for Flexible Thin Film Acoustic Wave Devices Based on Metallic and Polymer Multilayers. <i>IEEE Sensors Journal</i> , 2023, 23, 24041-24049.	2.4	3
3	Record-Breaking Frequency of 44GHz Based on the Higher Order Mode of Surface Acoustic Waves with LiNbO <sub>3</sub> /SiO <sub>2</sub> /SiC Heterostructures. <i>Engineering</i> , 2023, 20, 112-119.	3.2	12
4	Acousto-Pi: An Opto-Acoustofluidic System Using Surface Acoustic Waves Controlled With Open-Source Electronics for Integrated In-Field Diagnostics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 411-422.	1.7	4
5	Acoustofluidic Patterning inside Capillary Tubes Using Standing Surface Acoustic Waves. <i>International Journal of Mechanical Sciences</i> , 2022, 214, 106893.	3.6	13
6	Microstructure and mechanical behavior of porous tungsten skeletons synthesized by selected laser melting. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 103, 105769.	1.7	5
7	MnCo <sub>2</sub> O <sub>4</sub> /Ni <sub>3</sub> S <sub>4</sub> nanocomposite for hybrid supercapacitor with superior energy density and long-term cycling stability. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 503-512.	5.0	34
8	Coupling mechanism of kinetic and thermal impacts of Rayleigh surface acoustic waves on the microdroplet. <i>Experimental Thermal and Fluid Science</i> , 2022, 133, 110580.	1.5	5
9	An integrated platform for metamaterial-based sensing and surface acoustic wave-based acoustofluidics utilising circular interdigital transducers. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 270-279.	1.9	3
10	Ultra-Sensitive, Deformable, and Transparent Triboelectric Tactile Sensor Based on Micro-Pyramid Patterned Ionic Hydrogel for Interactive Human-Machine Interfaces. <i>Advanced Science</i> , 2022, 9, e2104168.	5.6	123
11	Untangling the mechanics of entanglements in slide-ring gels towards both super-deformability and toughness. <i>Soft Matter</i> , 2022, 18, 1302-1309.	1.2	9
12	FCP-Net: A Feature-Compression-Pyramid Network Guided by Game-Theoretic Interactions for Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 1482-1496.	5.4	14
13	Exfoliation of metal-organic framework nanosheets using surface acoustic waves. <i>Ultrasonics Sonochemistry</i> , 2022, 83, 105943.	3.8	9
14	Phase transition of supercooled water confined in cooperative two-state domain. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 165403.	0.7	4
15	In-situ generated graphene from wheat flour for enhancing mechanical and electrical properties of copper matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142662.	2.6	17
16	Node formation mechanisms in acoustofluidic capillary bridges. <i>Ultrasonics</i> , 2022, 121, 106690.	2.1	1
17	Acoustofluidic Behaviors of ZnO/Al Plate/Sheet Acoustic Wave Devices Using Hybrid Modes. , 2022, , .		0
18	In-situ synthesis of reduced graphene oxide/aluminium oxide nanopowders for reinforcing Ti-6Al-4V composites. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164198.	2.8	21

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19	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, 442, 128336.	2.2	4
20	Electrochemical Strategy for High-Resolution Nanostructures in Laser-Heat-Mode Resist Toward Next Generation Diffractive Optical Elements. <i>Small</i> , 2022, 18, e2200249.	5.2	4
21	Engineering the Optoelectronic Properties of 2D Hexagonal Boron Nitride Monolayer Films by Sulfur Substitutional Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16453-16461.	4.0	10
22	Colloidal synthesis of flower-like Zn doped Ni(OH) <sub>2</sub> @CNTs at room-temperature for hybrid supercapacitor with high rate capability and energy density. <i>Electrochimica Acta</i> , 2022, 414, 140208.	2.6	14
23	Cobalt-molybdenum selenide double-shelled hollow nanocages derived from metal-organic frameworks as high performance electrodes for hybrid supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 141-151.	5.0	16
24	Environment-friendly surface acoustic wave humidity sensor with sodium alginate sensing layer. <i>Micro and Nano Engineering</i> , 2022, 15, 100127.	1.4	5
25	Hierarchically nanostructured Zn <sub>0.76</sub> Co <sub>0.24</sub> S@Co(OH) <sub>2</sub> for high-performance hybrid supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 88-97.	5.0	18
26	Transition Metal Atoms Anchored on CuPS <sub>3</sub> Monolayer for Enhancing Catalytic Performance of Hydrogen Evolution Reactions. <i>Electrocatalysis</i> , 2022, 13, 494-501.	1.5	4
27	Virtual Sensor Array Based on Piezoelectric Cantilever Resonator for Identification of Volatile Organic Compounds. <i>ACS Sensors</i> , 2022, 7, 1555-1563.	4.0	15
28	The Fabrication of an Eccentric Three-Core Fiber and Its Application as a Twist Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-6.	2.4	4
29	ZnO/glass thin film surface acoustic waves for efficient digital acoustofluidics and active surface cleaning. <i>Materials Chemistry and Physics</i> , 2022, 287, 126290.	2.0	6
30	A LiNbO <sub>3</sub> substrate surface acoustic wave microfluidic chip for patterning of cardiomyocytes. , 2022, , .		0
31	Integrating CoNiSe <sub>2</sub> Nanorod-arrays onto N-doped Sea-sponge-C spheres for highly efficient electrocatalysis of hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 446, 137335.	6.6	17
32	Highly porous Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> layer for acoustic wave based H <sub>2</sub> S sensing: mass loading or elastic loading effects?. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132160.	4.0	8
33	Flexible Platform of Acoustofluidics and Metamaterials with Decoupled Resonant Frequencies. <i>Sensors</i> , 2022, 22, 4344.	2.1	1
34	Dual Carbon Design Strategy for Anodes of Sodium-Ion Battery: Mesoporous CoS <sub>2</sub> /CoO on Open Framework Carbon-Spheres with rGO Encapsulating. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28004-28013.	4.0	18
35	NiCoPd Inlaid NiCo-Bimetallene for Efficient Electrocatalytic Methanol Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 10211-10219.	1.9	12
36	Enhancing mechanisms of arc-erosion resistance for copper tungsten electrical contact using reduced graphene oxides in situ modified by copper nanoparticles. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 108, 105934.	1.7	14

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37	Multiscale and hierarchical wrinkle enhanced graphene/Ecoflex sensors integrated with human-machine interfaces and cloud-platform. Npj Flexible Electronics, 2022, 6, .	5.1	20
38	A simplified three-dimensional numerical simulation approach for surface acoustic wave tweezers. Ultrasonics, 2022, 125, 106797.	2.1	7
39	Interface engineering of graphene/copper matrix composites decorated with tungsten carbide for enhanced physico-mechanical properties. Carbon, 2021, 173, 41-53.	5.4	70
40	Engineering inclined orientations of piezoelectric films for integrated acoustofluidics and lab-on-a-chip operated in liquid environments. Lab on A Chip, 2021, 21, 254-271.	3.1	20
41	Numerical and experimental investigations of interdigital transducer configurations for efficient droplet streaming and jetting induced by surface acoustic waves. International Journal of Multiphase Flow, 2021, 136, 103545.	1.6	14
42	Effect of reduced graphene oxides decorated by Ag and Ce on mechanical properties and electrical conductivity of copper matrix composites. Vacuum, 2021, 183, 109861.	1.6	14
43	Miura-Origami-Structured W-Tube Electret Power Generator with Water-Proof and Multifunctional Energy Harvesting Capability. , 2021, , .		1
44	Cascaded Sagnac Loops Embedded With Two Polarization Maintaining Photonic Crystal Fibers for Highly Sensitive Strain Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	18
45	A Low SNR and Fast Passive Location Algorithm Based on Virtual Time Reversal. IEEE Access, 2021, 9, 29303-29311.	2.6	6
46	Electrically Sensing Characteristics of the Sagnac Interferometer Embedded With a Liquid Crystal-Infiltrated Photonic Crystal Fiber. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	8
47	3D Printing of Auxetic Shape-Memory Metamaterial Towards Designable Buckling. International Journal of Applied Mechanics, 2021, 13, 2150011.	1.3	21
48	Anchoring-mediated topology signature of self-assembled elastomers undergoing mechanochromic coupling/decoupling. Soft Matter, 2021, 17, 5960-5968.	1.2	3
49	Flexible Printed Circuit Board as Novel Electrodes for Acoustofluidic Devices. IEEE Transactions on Electron Devices, 2021, 68, 393-398.	1.6	17
50	High-Efficiency Raindrops Energy Harvester Using Interdigital Electrode. , 2021, , .		4
51	Enhanced interfacial wettability and mechanical properties of Ni@Al <sub>2</sub> O <sub>3</sub> /Cu ceramic matrix composites using spark plasma sintering of Ni coated Al <sub>2</sub> O <sub>3</sub> powders. Vacuum, 2021, 184, 109938.	1.6	16
52	Multi-modal commutative dynamics in semi-crystalline polymers undergoing multiple shape memory behavior. Smart Materials and Structures, 2021, 30, 045003.	1.8	5
53	A rapid and controllable acoustothermal microheater using thin film surface acoustic waves. Sensors and Actuators A: Physical, 2021, 318, 112508.	2.0	25
54	Bending behaviors of flexible acoustic wave devices under non-uniform elasto-plastic deformation. Applied Physics Letters, 2021, 118, .	1.5	7

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55	Large-Scale Fabrication of 3D Scaffold-Based Patterns of Microparticles and Breast Cancer Cells using Reusable Acoustofluidic Device. <i>Advanced Engineering Materials</i> , 2021, 23, 2001377.	1.6	11
56	Controlled Interfacial Reactions and Superior Mechanical Properties of High Energy Ball Milled/Spark Plasma Sintered Ti-6Al-4V-Graphene Composite. <i>Advanced Engineering Materials</i> , 2021, 23, 2001411.	1.6	12
57	Virtual sensor array based on MXene for selective detections of VOCs. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129414.	4.0	61
58	Enhanced functional properties of CeO <sub>2</sub> modified graphene/epoxy nanocomposite coating through interface engineering. <i>Surface and Coatings Technology</i> , 2021, 409, 126819.	2.2	16
59	Solvent-aided phase separation in hydrogel towards significantly enhanced mechanoresponsive strength. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 757-766.	1.5	5
60	An Enhanced Tilted-Angle Acoustofluidic Chip for Cancer Cell Manipulation. <i>IEEE Electron Device Letters</i> , 2021, 42, 577-580.	2.2	17
61	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.	2.0	26
62	Flexible/Bendable Acoustofluidics Based on Thin-Film Surface Acoustic Waves on Thin Aluminum Sheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16978-16986.	4.0	23
63	Local conservation law of rubber elasticity in hydrogel networks undergoing microphase separation and toughening. <i>Polymer</i> , 2021, 222, 123656.	1.8	5
64	Porous Bilayer Electrode-Guided Gas Diffusion for Enhanced CO <sub>2</sub> Electrochemical Reduction. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100083.	2.8	10
65	A reconfigurable and portable acoustofluidic system based on flexible printed circuit board for the manipulation of microspheres. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 074003.	1.5	11
66	Hierarchical Honeycomb-Structured Electret/Triboelectric Nanogenerator for Biomechanical and Morphing Wing Energy Harvesting. <i>Nano-Micro Letters</i> , 2021, 13, 123.	14.4	80
67	Selective entanglement coupling of nanoparticles in polymer nanocomposite with high shape recovery stress. <i>Composites Science and Technology</i> , 2021, 207, 108728.	3.8	19
68	Fully self-powered instantaneous wireless humidity sensing system based on triboelectric nanogenerator. <i>Nano Energy</i> , 2021, 83, 105814.	8.2	49
69	High Resolution and Fast Response of Humidity Sensor Based on AlN Cantilever With Two Groups of Segmented Electrodes. <i>IEEE Electron Device Letters</i> , 2021, 42, 923-926.	2.2	5
70	Microstructure and tribological properties of titanium matrix nanocomposites through powder metallurgy using graphene oxide nanosheets enhanced copper powders and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159093.	2.8	38
71	Flexible Smart Acoustic Wave Patches for Effective Detection and Elimination of Surface Condensation. , 2021, , .		0
72	An Integrated Flexible Platform of Electromagnetic Metamaterials and Acoustofluidics on Kapton. , 2021, , .		0

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73	Electrically Tuning Characteristics of LC Selectively Infiltrated PCF Sagnac Interferometer. IEEE Photonics Technology Letters, 2021, 33, 668-671.	1.3	7
74	Flexible and bendable acoustofluidics for particle and cell patterning. International Journal of Mechanical Sciences, 2021, 202-203, 106536.	3.6	10
75	Yielding mechanisms for mechano-chemo-thermal couplings in amorphous shape memory polymer undergoing molecular entanglement. Journal Physics D: Applied Physics, 2021, 54, 415302.	1.3	7
76	Hydrophobic metal organic framework for enhancing performance of acoustic wave formaldehyde sensor based on polyethyleneimine and bacterial cellulose nanofilms. Journal of Materials Science: Materials in Electronics, 2021, 32, 18551-18564.	1.1	5
77	Highly precision carbon dioxide acoustic wave sensor with minimized humidity interference. Sensors and Actuators B: Chemical, 2021, 338, 129824.	4.0	17
78	Negatively thermodynamic toughening in double network hydrogel towards cooling-triggered multi-shape memory effect. Smart Materials and Structures, 2021, 30, 105011.	1.8	3
79	Mechanoresponsive resonance differences in double-network hydrogels towards multipartite dynamics. Journal Physics D: Applied Physics, 2021, 54, 465301.	1.3	0
80	Piezoelectric Smart Patch Operated with Machine-Learning Algorithms for Effective Detection and Elimination of Condensation. ACS Sensors, 2021, 6, 3072-3081.	4.0	9
81	High Performance Acoustic Wave Nitrogen Dioxide Sensor with Ultraviolet Activated 3D Porous Architecture of Ag-Decorated Reduced Graphene Oxide and Polypyrrole Aerogel. ACS Applied Materials & Interfaces, 2021, 13, 42094-42103.	4.0	38
82	Virtual Sensor Array Based on Butterworth Van Dyke Equivalent Model of QCM for Selective Detection of Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2021, 13, 47043-47051.	4.0	18
83	Surface Acoustic Waves to Control Droplet Impact onto Superhydrophobic and Slippery Liquid-Infused Porous Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 46076-46087.	4.0	29
84	Rational design of Bi-doped rGO/Co3O4 nanohybrids for ethanol sensing. Sensors and Actuators B: Chemical, 2021, 343, 130118.	4.0	28
85	Reduction of Ice Adhesion Using Surface Acoustic Waves: Nanoscale Vibration and Interface Heating Effects. Langmuir, 2021, 37, 11851-11858.	1.6	12
86	Reduced Graphene Oxide Nanosheets Decorated with Copper and Silver Nanoparticles for Achieving Superior Strength and Ductility in Titanium Composites. ACS Applied Materials & Interfaces, 2021, 13, 43197-43208.	4.0	23
87	Tele-operated robotic ultrasound system for medical diagnosis. Biomedical Signal Processing and Control, 2021, 70, 102900.	3.5	17
88	Simulations of surface acoustic wave interactions on a sessile droplet using a three-dimensional multiphase lattice Boltzmann model. Physical Review E, 2021, 104, 045301.	0.8	8
89	Real-time monitoring of airborne molecular contamination on antireflection silica coatings using surface acoustic wave technology. Sensors and Actuators A: Physical, 2021, 329, 112796.	2.0	0
90	Synergetic enhancement of strength and ductility for titanium-based composites reinforced with nickel metallized multi-walled carbon nanotubes. Carbon, 2021, 184, 583-595.	5.4	28

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91	Elastic loading enhanced NH <sub>3</sub> sensing for surface acoustic wave sensor with highly porous nitrogen doped diamond like carbon film. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130175.	4.0	22
92	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Au nanoparticles doped polyimide thin film as a transducing bioreceptor for real-time acoustic detection of carcinoembryonic antigen. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112998.	2.0	7
93	Co-precipitation synthesis of CuCo <sub>2</sub> O <sub>4</sub> nanoparticles for supercapacitor electrodes with large specific capacity and high rate capability. <i>Electrochimica Acta</i> , 2021, 397, 139306.	2.6	30
94	Two-dimensional hetero-nanostructured electrocatalyst of Ni/NiFe-layered double oxide for highly efficient hydrogen evolution reaction in alkaline medium. <i>Chemical Engineering Journal</i> , 2021, 426, 131827.	6.6	42
95	Environment-friendly and chromium-free passivation of copper and its alloys. <i>Materials Today Communications</i> , 2021, 29, 102826.	0.9	5
96	Numerical and experimental studies of acoustic streaming effects on microparticles/droplets in microchannel flow. <i>International Journal of Engineering Science</i> , 2021, 169, 103563.	2.7	13
97	Development of bipolar-charged electret rotatory power generator and application in self-powered intelligent thrust bearing. <i>Nano Energy</i> , 2021, 90, 106491.	8.2	14
98	A Time-Varying Chaotic Multitone Communication Method Based on OFDM for Low Detection Probability of Eavesdroppers. <i>IEEE Access</i> , 2021, 9, 107566-107573.	2.6	5
99	A flexible virtual sensor array based on laser-induced graphene and MXene for detecting volatile organic compounds in human breath. <i>Analyst</i> , The, 2021, 146, 5704-5713.	1.7	19
100	Nanoscale "Earthquake" Effect Induced by Thin Film Surface Acoustic Waves as a New Strategy for Ice Protection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001776.	1.9	16
101	Understanding complex dynamics of interfacial reconstruction in polyampholyte hydrogels undergoing mechano-chemo-electrotaxis coupling. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 085301.	1.3	8
102	A dynamic model of complexly mechanoresponsive chain-poly[n]-catenations in double-network polyampholyte hydrogels. <i>Smart Materials and Structures</i> , 2021, 30, 015027.	1.8	2
103	Self-assembled topological transition via intra- and inter-chain coupled binding in physical hydrogel towards mechanical toughening. <i>Polymer</i> , 2021, 235, 124268.	1.8	6
104	A Passive Location Method Based on Virtual Time Reversal of Cross Antenna Sensor Array and Tikhonov Regularized TLS. <i>IEEE Sensors Journal</i> , 2021, 21, 21931-21940.	2.4	3
105	Ultrafine Mn <sub>3</sub> O <sub>4</sub> nanowires synthesized by colloidal method as electrode materials for supercapacitors with a wide voltage range. <i>Journal of Energy Storage</i> , 2021, 44, 103260.	3.9	20
106	Ultralow Power Optical Synapses Based on MoS <sub>2</sub> Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes. <i>Advanced Materials</i> , 2021, 33, e2104960.	11.1	53
107	Ultrasensitive Leaky Surface Acoustic Wave Immunosensor for Real-Time Detection of Alpha-Fetoprotein in Biological Fluids. <i>Chemosensors</i> , 2021, 9, 311.	1.8	8
108	Apnoea-Pi: Sleep disorder monitoring with open-source electronics and acoustics. , 2021, , .		1

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109	Flexible thin-film acoustic wave devices with off-axis bending characteristics for multisensing applications. <i>Microsystems and Nanoengineering</i> , 2021, 7, 97.	3.4	25
110	Interfacial Confinement in Semi-Crystalline Shape Memory Polymer Towards Sequentially Dynamic Relaxations. <i>International Journal of Applied Mechanics</i> , 2021, 13, .	1.3	12
111	Ultralow Power Optical Synapses Based on MoS <sub>2</sub> Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes ( <i>Adv. Mater.</i> 52/2021). <i>Advanced Materials</i> , 2021, 33, .	11.1	4
112	Significantly enhanced temperature-dependent selectivity for NO <sub>2</sub> and H <sub>2</sub> S detection based on In <sub>2</sub> O <sub>3</sub> nano-cubes prepared by CTAB assisted solvothermal process. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152518.	2.8	30
113	p-type Cu <sub>3</sub> BiS <sub>3</sub> thin films for solar cell absorber layer via one stage thermal evaporation. <i>Applied Surface Science</i> , 2020, 505, 144597.	3.1	28
114	ZnO-Al <sub>2</sub> O <sub>3</sub> nanocomposite as a sensitive layer for high performance surface acoustic wave H <sub>2</sub> S gas sensor with enhanced elastic loading effect. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127395.	4.0	53
115	Enhancing chloride ion penetration resistance into concrete by using graphene oxide reinforced waterborne epoxy coating. <i>Progress in Organic Coatings</i> , 2020, 138, 105389.	1.9	36
116	Origami-inspired electret-based triboelectric generator for biomechanical and ocean wave energy harvesting. <i>Nano Energy</i> , 2020, 67, 104197.	8.2	199
117	Room-temperature synthesized porous Cu(OH) <sub>2</sub> /Cu <sub>7</sub> S <sub>4</sub> hybrid nanowires as a high-performance electrode material for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 724-734.	5.2	45
118	Enhanced Piezoelectric Effect Derived from Grain Boundary in MoS <sub>2</sub> Monolayers. <i>Nano Letters</i> , 2020, 20, 201-207.	4.5	66
119	Advances in nanostructured homojunction solar cells and photovoltaic materials. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104810.	1.9	29
120	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020, 6, 1900975.	2.6	27
121	Collective and cooperative dynamics in transition domains of amorphous polymers with multi-shape memory effect. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 095301.	1.3	2
122	Surface acoustic wave ammonia sensor based on ZnS mucosal-like nanostructures. <i>Microelectronic Engineering</i> , 2020, 222, 111201.	1.1	23
123	Ultrastable PtCo/Co <sub>3</sub> O <sub>4</sub> –SiO <sub>2</sub> Nanocomposite with Active Lattice Oxygen for Superior Catalytic Activity toward CO Oxidation. <i>Inorganic Chemistry</i> , 2020, 59, 1218-1226.	1.9	30
124	Cooperative dynamics of heuristic swelling and inhibitive micellization in double-network hydrogels by ionic dissociation of polyelectrolyte. <i>Polymer</i> , 2020, 186, 122039.	1.8	16
125	Arc ablation behavior and microstructure evolution of plastically deformed and micro-alloyed Cu–Cr–Zr alloys. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153123.	2.8	21
126	Cellulose nano-crystals as a sensitive and selective layer for high performance surface acoustic wave HCl gas sensors. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111792.	2.0	14

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127	Mesoporous Zr-doped CeO <sub>2</sub> nanostructures as superior supercapacitor electrode with significantly enhanced specific capacity and excellent cycling stability. <i>Electrochimica Acta</i> , 2020, 331, 135366.	2.6	44
128	Integrated sensing layer of bacterial cellulose and polyethyleneimine to achieve high sensitivity of ST-cut quartz surface acoustic wave formaldehyde gas sensor. <i>Journal of Hazardous Materials</i> , 2020, 388, 121743.	6.5	49
129	Dynamic coordination of miscible polymer blends towards highly designable shape memory effect. <i>Polymer</i> , 2020, 208, 122946.	1.8	7
130	Flexible and Integrated Sensing Platform of Acoustic Waves and Metamaterials based on Polyimide-Coated Woven Carbon Fibers. <i>ACS Sensors</i> , 2020, 5, 2563-2569.	4.0	21
131	Monolayer hydrophilic MoS <sub>2</sub> with strong charge trapping for atomically thin neuromorphic vision systems. <i>Materials Horizons</i> , 2020, 7, 3316-3324.	6.4	26
132	Dynamic Behavior of Droplet Impact on Inclined Surfaces with Acoustic Waves. <i>Langmuir</i> , 2020, 36, 10175-10186.	1.6	29
133	Microstructure evolution and enhanced properties of Cu-Cr-Zr alloys through synergistic effects of alloying, heat treatment and low-energy cyclic impact. <i>Journal of Materials Research</i> , 2020, 35, 2746-2755.	1.2	5
134	Ultrathin Glass-Based Flexible, Transparent, and Ultrasensitive Surface Acoustic Wave Humidity Sensor with ZnO Nanowires and Graphene Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39817-39825.	4.0	83
135	H <sub>2</sub> S gas sensing performance and mechanisms using CuO-Al <sub>2</sub> O <sub>3</sub> composite films based on both surface acoustic wave and chemiresistor techniques. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128742.	4.0	31
136	Acoustic Waves for Active Reduction of Contact Time in Droplet Impact. <i>Physical Review Applied</i> , 2020, 14, .	1.5	16
137	Wrinkle-Enabled Highly Stretchable Strain Sensors for Wide-Range Health Monitoring with a Big Data Cloud Platform. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43009-43017.	4.0	60
138	AI-enabled Microscopic Blood Analysis for Microfluidic COVID-19 Hematology. , 2020, , .		5
139	Investigation of Relative Humidity Sensing Using Tapered No-Core Fiber Coated With Graphene Oxide Film. <i>IEEE Access</i> , 2020, 8, 220755-220761.	2.6	8
140	Half-Sphere Shell Supported Pt Catalyst for Electrochemical Methanol Oxidation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084510.	1.3	5
141	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.	1.7	17
142	Ultrahigh-Frequency Surface Acoustic Wave Sensors with Giant Mass-Loading Effects on Electrodes. <i>ACS Sensors</i> , 2020, 5, 1657-1664.	4.0	37
143	Bioactive nanocomposite coatings under visible light illumination promoted surface-mediated gene delivery. <i>Biomaterials Science</i> , 2020, 8, 3685-3696.	2.6	7
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