

List of Publications by Citations

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Version: 2024-04-20

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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.

99
papers

3,637
citations

34
h-index

58
g-index

129
ext. papers

4,887
ext. citations

7.7
avg, IF

5.9
L-index

#	Paper	IF	Citations
99	Designable YolkShell [email[protected]] Petalous Heterostructures. <i>Chemistry of Materials</i> , 2014 , 26, 1119-1125	9.6	185
98	Mesoporous metal-organic frameworks with size-, shape-, and space-distribution-controlled pore structure. <i>Advanced Materials</i> , 2015 , 27, 2923-9	24	184
97	Gradient Porous Elastic Hydrogels with Shape-Memory Property and Anisotropic Responses for Programmable Locomotion. <i>Advanced Functional Materials</i> , 2015 , 25, 7272-7279	15.6	179
96	An intrinsically stretchable humidity sensor based on anti-drying, self-healing and transparent organohydrogels. <i>Materials Horizons</i> , 2019 , 6, 595-603	14.4	178
95	Ultrastretchable and Stable Strain Sensors Based on Antifreezing and Self-Healing Ionic Organohydrogels for Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9405-9414	9.5	175
94	. <i>Journal of Microelectromechanical Systems</i> , 2018 , 27, 276-288	2.5	137
93	Carbon Nanocoil-Based Fast-Response and Flexible Humidity Sensor for Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4242-4251	9.5	129
92	Extremely Deformable, Transparent, and High-Performance Gas Sensor Based on Ionic Conductive Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2364-2373	9.5	124
91	Highly Stretchable and Transparent Thermistor Based on Self-Healing Double Network Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19097-19105	9.5	119
90	Facile Synthesis of 3D Graphene Flowers for Ultrasensitive and Highly Reversible Gas Sensing. <i>Advanced Functional Materials</i> , 2016 , 26, 7462-7469	15.6	116
89	Improved Selectivity and Sensitivity of Gas Sensing Using a 3D Reduced Graphene Oxide Hydrogel with an Integrated Microheater. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27502-10	9.5	108
88	Origami-inspired eletret-based triboelectric generator for biomechanical and ocean wave energy harvesting. <i>Nano Energy</i> , 2020 , 67, 104197	17.1	106
87	A 3D Chemically Modified Graphene Hydrogel for Fast, Highly Sensitive, and Selective Gas Sensor. <i>Advanced Science</i> , 2017 , 4, 1600319	13.6	102
86	Freestanding graphene paper decorated with 2D-assembly of Au@Pt nanoparticles as flexible biosensors to monitor live cell secretion of nitric oxide. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 71-8	11.8	100
85	Chemically functionalized 3D graphene hydrogel for high performance gas sensing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8130-8140	13	84
84	3D superhydrophobic reduced graphene oxide for activated NO2 sensing with enhanced immunity to humidity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 478-488	13	84
83	Dual Conductive Network Hydrogel for a Highly Conductive, Self-Healing, Anti-Freezing, and Non-Drying Strain Sensor. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 996-1005	4.3	77

82	Ultrasensitive and Stretchable Temperature Sensors Based on Thermally Stable and Self-Healing Organohydrogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19069-19079	9.5	76
81	Conductive Hydrogel- and Organohydrogel-Based Stretchable Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2128-2144	9.5	75
80	Piezoelectric ZnO thin films for 2DOF MEMS vibrational energy harvesting. <i>Surface and Coatings Technology</i> , 2019 , 359, 289-295	4.4	70
79	Multifunctional Highly Sensitive Multiscale Stretchable Strain Sensor Based on a Graphene/Glycerol-KCl Synergistic Conductive Network. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31716-31724	9.5	63
78	A novel two-degree-of-freedom MEMS electromagnetic vibration energy harvester. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 035020	2	62
77	Flexible, 3D SnS ₂ /Reduced graphene oxide heterostructured NO ₂ sensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127445	8.5	58
76	Improved kinetics of methanol oxidation on Pt/hollow carbon sphere catalysts. <i>Electrochimica Acta</i> , 2008 , 53, 8341-8345	6.7	57
75	Ultrasensitive, Stretchable, and Fast-Response Temperature Sensors Based on Hydrogel Films for Wearable Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21854-21864	9.5	42
74	Boosted sensitivity of graphene gas sensor via nanoporous thin film structures. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1805-1813	8.5	41
73	Three-Dimensional Graphene Hydrogel Decorated with SnO for High-Performance NO Sensing with Enhanced Immunity to Humidity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2634-2643	9.5	41
72	Three-Dimensional-Structured Boron- and Nitrogen-Doped Graphene Hydrogel Enabling High-Sensitivity NO Detection at Room Temperature. <i>ACS Sensors</i> , 2019 , 4, 1889-1898	9.2	40
71	Synthesis of Single Crystalline Anatase TiO ₂ (001) Tetragonal Nanosheet-Array Films on Fluorine-Doped Tin Oxide Substrate. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 310-315	3.8	40
70	Green Synthesis of 3D Chemically Functionalized Graphene Hydrogel for High-Performance NH and NO Detection at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20623-20632	9.5	38
69	Hierarchical Honeycomb-Structured Electret/Triboelectric Nanogenerator for Biomechanical and Morphing Wing Energy Harvesting. <i>Nano-Micro Letters</i> , 2021 , 13, 123	19.5	37
68	In situ synthesis of large-area single sub-10 nm nanoparticle arrays by polymer pen lithography. <i>Nanoscale</i> , 2014 , 6, 749-52	7.7	36
67	High-Performance Pressure Sensors Based on 3D Microstructure Fabricated by a Facile Transfer Technology. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800640	6.8	35
66	Multifunctional and High-Sensitive Sensor Capable of Detecting Humidity, Temperature, and Flow Stimuli Using an Integrated Microheater. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43383-43392	9.5	35
65	Rapid-response, reversible and flexible humidity sensing platform using a hydrophobic and porous substrate. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2063-2073	7.3	34

64	Enhanced electrostatic vibrational energy harvesting using integrated opposite-charged electrets. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 044002	2	32
63	Highly Stable Pd-Based Catalytic Nanoarchitectures for Low Temperature Fuel Cells. <i>Fuel Cells</i> , 2008 , 8, 429-435	2.9	30
62	Ultrastable, stretchable, highly conductive and transparent hydrogels enabled by salt-percolation for high-performance temperature and strain sensing. <i>Journal of Materials Chemistry C</i> ,	7.1	26
61	Stretchable, Stable, and Room-Temperature Gas Sensors Based on Self-Healing and Transparent Organohydrogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52070-52081	9.5	24
60	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 , e2104168 ^{13,6}		22
59	Miura-origami-inspired electret/triboelectric power generator for wearable energy harvesting with water-proof capability. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 56	7.7	20
58	Recent Advances in Gas and Humidity Sensors Based on 3D Structured and Porous Graphene and Its Derivatives 2020 , 2, 1381-1411		19
57	Parallel near-field photolithography with metal-coated elastomeric masks. <i>Langmuir</i> , 2015 , 31, 1210-7	4	17
56	Fabrication of Two-Dimensional Crystalline Organic Films by Tilted Spin Coating for High-Performance Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7226-7234	9.5	16
55	Preparation and Thermoelectric Properties of Polycrystalline In ₄ Sn ₃ by Mechanical Alloying and Hot Pressing. <i>Journal of Electronic Materials</i> , 2012 , 41, 1077-1080	1.9	16
54	Solution-based SnGaO thin-film transistors for Zn- and In-free oxide electronic devices. <i>Applied Physics Letters</i> , 2018 , 113, 122101	3.4	16
53	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	15
52	. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1044-1047	4.4	14
51	Solvothermal-induced conversion of one-dimensional multilayer nanotubes to two-dimensional hydrophilic VOx nanosheets: synthesis and water treatment application. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10389-94	9.5	14
50	Fabrication of Ag ₃ Sn ₅ Bi ₂ Te based thermoelectric materials by MA-PAS and their properties. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 167-171	5.7	14
49	Mechanistic study on nickel-molybdenum based electrocatalysts for the hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 388, 122-129	7.3	13
48	Environment tolerant, adaptable and stretchable organohydrogels: preparation, optimization, and applications.. <i>Materials Horizons</i> , 2022 ,	14.4	13
47	Ion-Conductive Hydrogel-Based Stretchable, Self-Healing, and Transparent NO Sensor with High Sensitivity and Selectivity at Room Temperature. <i>Small</i> , 2021 , 17, e2104997	11	12

46	An ultrastretchable, high-performance, and crosstalk-free proximity and pressure bimodal sensor based on ionic hydrogel fibers for human-machine interfaces.. <i>Materials Horizons</i> , 2022 ,	14.4	12
45	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. <i>ACS Nano</i> , 2019 , 13, 6618-6630	16.7	11
44	Epitaxial growth of successive CdSe ultrathin films and quantum dot layers on TiO ₂ nanorod arrays for photo-electrochemical cells. <i>RSC Advances</i> , 2014 , 4, 12154	3.7	11
43	Self-Healing, Self-Adhesive and Stable Organohydrogel-Based Stretchable Oxygen Sensor with High Performance at Room Temperature.. <i>Nano-Micro Letters</i> , 2022 , 14, 52	19.5	11
42	Micro-patterning of resin-bonded NdFeB magnet for a fully integrated electromagnetic actuator. <i>Solid-State Electronics</i> , 2017 , 138, 66-72	1.7	10
41	Large-Area Sub-Wavelength Optical Patterning via Long-Range Ordered Polymer Lens Array. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16368-78	9.5	10
40	Synthesis, Characterization, and Memory Performance of Two Phenazine/Triphenylamine-Based Organic Small Molecules through Donor-Acceptor Design. <i>Asian Journal of Organic Chemistry</i> , 2015 , 4, 646-651	3	10
39	Constructing Electrophoretic Displays on Foldable Paper-Based Electrodes by a Facile Transferring Method. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1335-1342	4	9
38	Fabrication of Ultrathin Zn(OH) Nanosheets as Drug Carriers. <i>Nano Research</i> , 2016 , 9, 2520-2530	10	9
37	Production of centimeter-scale gradient patterns by graded elastomeric tip array. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6991-7000	9.5	8
36	Centimeter-scale subwavelength photolithography using metal-coated elastomeric photomasks with modulated light intensity at the oblique sidewalls. <i>Langmuir</i> , 2015 , 31, 5005-13	4	8
35	Hydrogel- and organohydrogel-based stretchable, ultrasensitive, transparent, room-temperature and real-time NO sensors and the mechanism.. <i>Materials Horizons</i> , 2022 ,	14.4	8
34	Multifunctional Alumina Composites with Toughening and Crack-Healing Features Via Incorporation of NiAl Particles. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1618-1625	3.8	7
33	Thermoelectric Properties of Sn-Substituted AgPb _m SbTe _{m+2} via the Route of Mechanical Alloying and Plasma-Activated Sintering. <i>Journal of Electronic Materials</i> , 2012 , 41, 1100-1104	1.9	7
32	Experimental Characterization and Model Verification of Thermal Conductivity from Mesoporous to Macroporous SiOC Ceramics. <i>Journal of Thermal Science</i> , 2021 , 30, 465-476	1.9	7
31	Thermal barrier effect from internal pore channels on thickened aluminum nanofilm. <i>International Journal of Thermal Sciences</i> , 2021 , 162, 106781	4.1	6
30	A high endurance, temperature-resilient, and robust organic electrochemical transistor for neuromorphic circuits. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11801-11808	7.1	6
29	Doping Effects of Various Carrier Suppressing Elements on Solution-Processed SnO _x -Based Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3371-3375	2.9	5

28	Monolithic integration of GaN LEDs with vertical driving MOSFETs by selective area growth and band engineering of the p-AlGaIn electron blocking layer through TCAD simulation. <i>Semiconductor Science and Technology</i> , 2019 , 34, 064002	1.8	5
27	Production of centimeter-scale sub-wavelength nanopatterns by controlling the light path of adhesive photomasks. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6796-6808	7.1	5
26	Self-Calibrated, Sensitive, and Flexible Temperature Sensor Based on 3D Chemically Modified Graphene Hydrogel. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001084	6.4	5
25	Three-dimensional gold nanoparticles-modified graphene hydrogel for high-sensitive NO ₂ and NH ₃ detection with enhanced resistance to humidity. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130259	8.5	5
24	Enhanced gas sensing by 3D water steamed graphene hydrogel. <i>Solid-State Electronics</i> , 2017 , 138, 101-107	10.7	4
23	Revealing the Role of Surface Co-modification in Boosting the Gas Sensing Performance of Graphene Using Experimental and Theoretical Evidences. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128162	8.5	4
22	Ultrahigh Sensitivity of Flexible Thermistors Based on 3D Porous Graphene Characterized by Imbedded Microheaters. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000451	6.4	4
21	Recent advances in biosensors for detection of exosomes. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 18, 100280	4.4	4
20	Facile patterning and transferring method for constructing self-powered UV photodetectors. <i>Applied Physics Express</i> , 2018 , 11, 116502	2.4	4
19	Three-dimensional hierarchical and superhydrophobic graphene gas sensor with good immunity to humidity 2018 ,		4
18	Bipolar Micro Electret Power Generator 2019 ,		3
17	MEMS/NEMS-Enabled Energy Harvesters as Self-Powered Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 1-30	0.4	3
16	Development of bipolar-charged electret rotatory power generator and application in self-powered intelligent thrust bearing. <i>Nano Energy</i> , 2021 , 90, 106491	17.1	3
15	Ultrasensitive, stretchable, and transparent humidity sensor based on ion-conductive double-network hydrogel thin films. <i>Science China Materials</i> ,	7.1	3
14	Orders-of-magnitude enhancement in conductivity tuning in InGaZnO thin-film transistors via SiNx passivation and dual-gate modulation. <i>Journal of Information Display</i> , 2019 , 20, 161-167	4.1	2
13	Pyramid-Shaped Single-Crystalline Nanostructure of Molybdenum with Excellent Mechanical, Electrical, and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24218-24230	9.5	2
12	Highly Deformable and Transparent Triboelectric Physiological Sensor Based on Anti-Freezing and Antidrying Ionic Conductive Hydrogel 2021 ,		2
11	Revealing Charge Transport and Device Operations of Organic Ambipolar Transistors and Inverters by Four-Probe Measurement. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001134	6.4	2

10	Investigation of a Thin-film Quasi-reference Electrode Fabricated by Combined Sputtering-evaporation Approach. <i>Electroanalysis</i> , 2018 , 31, 560	3	2
9	MEMS/NEMS-Enabled Vibrational Energy Harvesting for Self-Powered and Wearable Electronics 2017 , 271-297		1
8	Electrostatic/triboelectric hybrid power generator using folded electrets 2017 ,		1
7	Amorphous Ni(OH) ₂ nanocages as efficient SERS substrates for selective recognition in mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 631, 127652	5.1	1
6	Stretchable Transparent Electrode Wettability Self-Assembly in Mechanically Induced Self-Cracking. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
5	Graphene for Future High-Performance Gas Sensing 2017 , 347-363		1
4	Multi-Arched Asynchronous Triboelectric Sensor Based on Ultra-Stretchable Hydrogel for a Novel Displacement Measuring Mechanism 2021 ,		1
3	Enhanced Performance of a Rotary Energy Harvester with Bipolar Charged Electrets 2018 ,		1
2	Oxide semiconductor thin-film transistors with nano-splitting and field-surrounding channels fabricated by subwavelength photolithography. <i>JPhys Materials</i> , 2020 , 3, 015010	4.2	
1	A button switch inspired duplex hydrogel sensor based on both triboelectric and piezoresistive effects for detecting dynamic and static pressure. <i>Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering</i> , 2022 , 5, 023002	2.4	