Jin Wu

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.

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	Ultra-Sensitive, Deformable, and Transparent Triboelectric Tactile Sensor Based on Micro-Pyramid Patterned Ionic Hydrogel for Interactive Human-Machine Interfaces.. *Advanced Science*, **2022**, e2104168	13.6	22
98	Environment tolerant, adaptable and stretchable organohydrogels: preparation, optimization, and applications.. *Materials Horizons*, **2022**,	14.4	13
97	Self-Healing, Self-Adhesive and Stable Organohydrogel-Based Stretchable Oxygen Sensor with High Performance at Room Temperature.. *Nano-Micro Letters*, **2022**, 14, 52	19.5	11
96	A button switch inspired duplex hydrogel sensor based on both triboelectric and piezoresistive effects for detecting dynamic and static pressure. *Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering*, **2022**, 5, 023002	2.4	
95	An ultrastretchable, high-performance, and crosstalk-free proximity and pressure bimodal sensor based on ionic hydrogel fibers for human-machine interfaces.. *Materials Horizons*, **2022**,	14.4	12
94	Hydrogel- and organohydrogel-based stretchable, ultrasensitive, transparent, room-temperature and real-time NO sensors and the mechanism.. *Materials Horizons*, **2022**,	14.4	8
93	Ion-Conductive Hydrogel-Based Stretchable, Self-Healing, and Transparent NO Sensor with High Sensitivity and Selectivity at Room Temperature. *Small*, **2021**, 17, e2104997	11	12
92	Amorphous Ni(OH)2 nanocages as efficient SERS substrates for selective recognition in mixtures. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 631, 127652	5.1	1
91	Stretchable Transparent Electrode Wettability Self-Assembly in Mechanically Induced Self-Cracking. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
90	Thermal barrier effect from internal pore channels on thickened aluminum nanofilm. *International Journal of Thermal Sciences*, **2021**, 162, 106781	4.1	6
89	Ultrasensitive, Stretchable, and Fast-Response Temperature Sensors Based on Hydrogel Films for Wearable Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 21854-21864	9.5	42
88	Hierarchical Honeycomb-Structured Electret/Triboelectric Nanogenerator for Biomechanical and Morphing Wing Energy Harvesting. *Nano-Micro Letters*, **2021**, 13, 123	19.5	37
87	Multi-Arched Asynchronous Triboelectric Sensor Based on Ultra-Stretchable Hydrogel for a Novel Displacement Measuring Mechanism **2021**,		1
86	Recent advances in biosensors for detection of exosomes. *Current Opinion in Biomedical Engineering*, **2021**, 18, 100280	4.4	4
85	Gas sensing materials roadmap. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	15
84	A high endurance, temperature-resilient, and robust organic electrochemical transistor for neuromorphic circuits. *Journal of Materials Chemistry C*, **2021**, 9, 11801-11808	7.1	6
83	Conductive Hydrogel- and Organohydrogel-Based Stretchable Sensors. *ACS Applied Materials & Interfaces*, **2021**, 13, 2128-2144	9.5	75

82	Highly Deformable and Transparent Triboelectric Physiological Sensor Based on Anti-Freezing and Antidrying Ionic Conductive Hydrogel **2021**,		2
81	Self-Calibrated, Sensitive, and Flexible Temperature Sensor Based on 3D Chemically Modified Graphene Hydrogel. *Advanced Electronic Materials*, **2021**, 7, 2001084	6.4	5
80	Revealing Charge Transport and Device Operations of Organic Ambipolar Transistors and Inverters by Four-Probe Measurement. *Advanced Electronic Materials*, **2021**, 7, 2001134	6.4	2
79	Experimental Characterization and Model Verification of Thermal Conductivity from Mesoporous to Macroporous SiOC Ceramics. *Journal of Thermal Science*, **2021**, 30, 465-476	1.9	7
78	Three-dimensional gold nanoparticles-modified graphene hydrogel for high-sensitive NO2 and NH3 detection with enhanced resistance to humidity. *Sensors and Actuators B: Chemical*, **2021**, 344, 130259	8.5	5
77	Development of bipolar-charged electret rotatory power generator and application in self-powered intelligent thrust bearing. *Nano Energy*, **2021**, 90, 106491	17.1	3
76	Stretchable, Stable, and Room-Temperature Gas Sensors Based on Self-Healing and Transparent Organohydrogels. *ACS Applied Materials & Interfaces*, **2020**, 12, 52070-52081	9.5	24
75	Pyramid-Shaped Single-Crystalline Nanostructure of Molybdenum with Excellent Mechanical, Electrical, and Optical Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 24218-24230	9.5	2
74	Mechanistic study on nickel-molybdenum based electrocatalysts for the hydrogen evolution reaction. *Journal of Catalysis*, **2020**, 388, 122-129	7.3	13
73	Dual Conductive Network Hydrogel for a Highly Conductive, Self-Healing, Anti-Freezing, and Non-Drying Strain Sensor. *ACS Applied Polymer Materials*, **2020**, 2, 996-1005	4.3	77
72	Constructing Electrophoretic Displays on Foldable Paper-Based Electrodes by a Facile Transferring Method. *ACS Applied Electronic Materials*, **2020**, 2, 1335-1342	4	9
71	Ultrasensitive and Stretchable Temperature Sensors Based on Thermally Stable and Self-Healing Organohydrogels. *ACS Applied Materials & Interfaces*, **2020**, 12, 19069-19079	9.5	76
70	Revealing the Role of Surface Co-modification in Boosting the Gas Sensing Performance of Graphene Using Experimental and Theoretical Evidences. *Sensors and Actuators B: Chemical*, **2020**, 316, 128162	8.5	4
69	Recent Advances in Gas and Humidity Sensors Based on 3D Structured and Porous Graphene and Its Derivatives **2020**, 2, 1381-1411		19
68	Origami-inspired electret-based triboelectric generator for biomechanical and ocean wave energy harvesting. *Nano Energy*, **2020**, 67, 104197	17.1	106
67	Three-Dimensional Graphene Hydrogel Decorated with SnO for High-Performance NO Sensing with Enhanced Immunity to Humidity. *ACS Applied Materials & Interfaces*, **2020**, 12, 2634-2643	9.5	41
66	Oxide semiconductor thin-film transistors with nano-splitting and field-surrounding channels fabricated by subwavelength photolithography. *JPhys Materials*, **2020**, 3, 015010	4.2	
65	Flexible, 3D SnS2/Reduced graphene oxide heterostructured NO2 sensor. *Sensors and Actuators B: Chemical*, **2020**, 305, 127445	8.5	58

64	Ultrahigh Sensitivity of Flexible Thermistors Based on 3D Porous Graphene Characterized by Imbedded Microheaters. *Advanced Electronic Materials*, **2020**, 6, 2000451	6.4	4
63	Miura-origami-inspired electret/triboelectric power generator for wearable energy harvesting with water-proof capability. *Microsystems and Nanoengineering*, **2020**, 6, 56	7.7	20
62	Green Synthesis of 3D Chemically Functionalized Graphene Hydrogel for High-Performance NH and NO Detection at Room Temperature. *ACS Applied Materials & Interfaces*, **2020**, 12, 20623-20632	9.5	38
61	Doping Effects of Various Carrier Suppressing Elements on Solution-Processed SnOx-Based Thin-Film Transistors. *IEEE Transactions on Electron Devices*, **2019**, 66, 3371-3375	2.9	5
60	Orders-of-magnitude enhancement in conductivity tuning in InGaZnO thin-film transistors via SiNx passivation and dual-gate modulation. *Journal of Information Display*, **2019**, 20, 161-167	4.1	2
59	An intrinsically stretchable humidity sensor based on anti-drying, self-healing and transparent organohydrogels. *Materials Horizons*, **2019**, 6, 595-603	14.4	178
58	Fabrication of Two-Dimensional Crystalline Organic Films by Tilted Spin Coating for High-Performance Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 7226-7234	9.5	16
57	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. *ACS Nano*, **2019**, 13, 6618-6630	16.7	11
56	. *IEEE Electron Device Letters*, **2019**, 40, 1044-1047	4.4	14
55	Monolithic integration of GaN LEDs with vertical driving MOSFETs by selective area growth and band engineering of the p-AlGaN electron blocking layer though TCAD simulation. *Semiconductor Science and Technology*, **2019**, 34, 064002	1.8	5
54	Rapid-response, reversible and flexible humidity sensing platform using a hydrophobic and porous substrate. *Journal of Materials Chemistry B*, **2019**, 7, 2063-2073	7.3	34
53	High-Performance Pressure Sensors Based on 3D Microstructure Fabricated by a Facile Transfer Technology. *Advanced Materials Technologies*, **2019**, 4, 1800640	6.8	35
52	Three-Dimensional-Structured Boron- and Nitrogen-Doped Graphene Hydrogel Enabling High-Sensitivity NO Detection at Room Temperature. *ACS Sensors*, **2019**, 4, 1889-1898	9.2	40
51	Bipolar Micro Electret Power Generator **2019**,		3
50	Multifunctional and High-Sensitive Sensor Capable of Detecting Humidity, Temperature, and Flow Stimuli Using an Integrated Microheater. *ACS Applied Materials & Interfaces*, **2019**, 11, 43383-43392	9.5	35
49	MEMS/NEMS-Enabled Energy Harvesters as Self-Powered Sensors. *SpringerBriefs in Applied Sciences and Technology*, **2019**, 1-30	0.4	3
48	Ultrastretchable and Stable Strain Sensors Based on Antifreezing and Self-Healing Ionic Organohydrogels for Human Motion Monitoring. *ACS Applied Materials & Interfaces*, **2019**, 11, 9405-9414	9.5	175
47	Piezoelectric ZnO thin films for 2DOF MEMS vibrational energy harvesting. *Surface and Coatings Technology*, **2019**, 359, 289-295	4.4	70

46	Extremely Deformable, Transparent, and High-Performance Gas Sensor Based on Ionic Conductive Hydrogel. *ACS Applied Materials & Interfaces*, **2019**, 11, 2364-2373	9.5	124
45	Carbon Nanocoil-Based Fast-Response and Flexible Humidity Sensor for Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 4242-4251	9.5	129
44	. *Journal of Microelectromechanical Systems*, **2018**, 27, 276-288	2.5	137
43	Boosted sensitivity of graphene gas sensor via nanoporous thin film structures. *Sensors and Actuators B: Chemical*, **2018**, 255, 1805-1813	8.5	41
42	Multifunctional Highly Sensitive Multiscale Stretchable Strain Sensor Based on a Graphene/Glycerol-KCl Synergistic Conductive Network. *ACS Applied Materials & Interfaces*, **2018**, 10, 31716-31724	9.5	63
41	3D superhydrophobic reduced graphene oxide for activated NO2 sensing with enhanced immunity to humidity. *Journal of Materials Chemistry A*, **2018**, 6, 478-488	13	84
40	Investigation of a Thin-film Quasi-reference Electrode Fabricated by Combined Sputtering-evaporation Approach. *Electroanalysis*, **2018**, 31, 560	3	2
39	Facile patterning and transferring method for constructing self-powered UV photodetectors. *Applied Physics Express*, **2018**, 11, 116502	2.4	4
38	Solution-based SnGaO thin-film transistors for Zn- and In-free oxide electronic devices. *Applied Physics Letters*, **2018**, 113, 122101	3.4	16
37	Enhanced Performance of a Rotary Energy Harvester with Bipolar Charged Electrets **2018**,		1
36	Three-dimensional hierarchical and superhydrophobic graphene gas sensor with good immunity to humidity **2018**,		4
35	Highly Stretchable and Transparent Thermistor Based on Self-Healing Double Network Hydrogel. *ACS Applied Materials & Interfaces*, **2018**, 10, 19097-19105	9.5	119
34	Enhanced electrostatic vibrational energy harvesting using integrated opposite-charged electrets. *Journal of Micromechanics and Microengineering*, **2017**, 27, 044002	2	32
33	MEMS/NEMS-Enabled Vibrational Energy Harvesting for Self-Powered and Wearable Electronics **2017**, 271-297		1
32	Electrostatic/triboelectric hybrid power generator using folded electrets **2017**,		1
31	A 3D Chemically Modified Graphene Hydrogel for Fast, Highly Sensitive, and Selective Gas Sensor. *Advanced Science*, **2017**, 4, 1600319	13.6	102
30	Micro-patterning of resin-bonded NdFeB magnet for a fully integrated electromagnetic actuator. *Solid-State Electronics*, **2017**, 138, 66-72	1.7	10
29	Enhanced gas sensing by 3D water steamed graphene hydrogel. *Solid-State Electronics*, **2017**, 138, 101-107		4

28	Graphene for Future High-Performance Gas Sensing **2017**, 347-363		1
27	Facile Synthesis of 3D Graphene Flowers for Ultrasensitive and Highly Reversible Gas Sensing. *Advanced Functional Materials*, **2016**, 26, 7462-7469	15.6	116
26	Large-Area Sub-Wavelength Optical Patterning via Long-Range Ordered Polymer Lens Array. *ACS Applied Materials & Interfaces*, **2016**, 8, 16368-78	9.5	10
25	Fabrication of Ultrathin Zn(OH) Nanosheets as Drug Carriers. *Nano Research*, **2016**, 9, 2520-2530	10	9
24	A novel two-degree-of-freedom MEMS electromagnetic vibration energy harvester. *Journal of Micromechanics and Microengineering*, **2016**, 26, 035020	2	62
23	Chemically functionalized 3D graphene hydrogel for high performance gas sensing. *Journal of Materials Chemistry A*, **2016**, 4, 8130-8140	13	84
22	Multifunctional Alumina Composites with Toughening and Crack-Healing Features Via Incorporation of NiAl Particles. *Journal of the American Ceramic Society*, **2015**, 98, 1618-1625	3.8	7
21	Production of centimeter-scale gradient patterns by graded elastomeric tip array. *ACS Applied Materials & Interfaces*, **2015**, 7, 6991-7000	9.5	8
20	Centimeter-scale subwavelength photolithography using metal-coated elastomeric photomasks with modulated light intensity at the oblique sidewalls. *Langmuir*, **2015**, 31, 5005-13	4	8
19	Mesoporous metal-organic frameworks with size-, shape-, and space-distribution-controlled pore structure. *Advanced Materials*, **2015**, 27, 2923-9	24	184
18	Improved Selectivity and Sensitivity of Gas Sensing Using a 3D Reduced Graphene Oxide Hydrogel with an Integrated Microheater. *ACS Applied Materials & Interfaces*, **2015**, 7, 27502-10	9.5	108
17	Gradient Porous Elastic Hydrogels with Shape-Memory Property and Anisotropic Responses for Programmable Locomotion. *Advanced Functional Materials*, **2015**, 25, 7272-7279	15.6	179
16	Synthesis, Characterization, and Memory Performance of Two Phenazine/Triphenylamine-Based Organic Small Molecules through Donor-Acceptor Design. *Asian Journal of Organic Chemistry*, **2015**, 4, 646-651	3	10
15	Production of centimeter-scale sub-wavelength nanopatterns by controlling the light path of adhesive photomasks. *Journal of Materials Chemistry C*, **2015**, 3, 6796-6808	7.1	5
14	Parallel near-field photolithography with metal-coated elastomeric masks. *Langmuir*, **2015**, 31, 1210-7	4	17
13	Designable Yolk–Shell Petalous Heterostructures. *Chemistry of Materials*, **2014**, 26, 1119-1125	9.6	185
12	Epitaxial growth of successive CdSe ultrathin films and quantum dot layers on TiO2 nanorod arrays for photo-electrochemical cells. *RSC Advances*, **2014**, 4, 12154	3.7	11
11	In situ synthesis of large-area single sub-10 nm nanoparticle arrays by polymer pen lithography. *Nanoscale*, **2014**, 6, 749-52	7.7	36

10	Solvothermal-induced conversion of one-dimensional multilayer nanotubes to two-dimensional hydrophilic VOx nanosheets: synthesis and water treatment application. *ACS Applied Materials & Interfaces*, **2013**, 5, 10389-94	9.5	14
9	Freestanding graphene paper decorated with 2D-assembly of Au@Pt nanoparticles as flexible biosensors to monitor live cell secretion of nitric oxide. *Biosensors and Bioelectronics*, **2013**, 49, 71-8	11.8	100
8	Preparation and Thermoelectric Properties of Polycrystalline In4Sn3□ by Mechanical Alloying and Hot Pressing. *Journal of Electronic Materials*, **2012**, 41, 1077-1080	1.9	16
7	Thermoelectric Properties of Sn-Substituted AgPb m SbTe m+2 via the Route of Mechanical Alloying and Plasma-Activated Sintering. *Journal of Electronic Materials*, **2012**, 41, 1100-1104	1.9	7
6	Synthesis of Single Crystalline Anatase TiO2 (001) Tetragonal Nanosheet-Array Films on Fluorine-Doped Tin Oxide Substrate. *Journal of the American Ceramic Society*, **2011**, 94, 310-315	3.8	40
5	Fabrication of Ag□n□b□e based thermoelectric materials by MA-PAS and their properties. *Journal of Alloys and Compounds*, **2010**, 507, 167-171	5.7	14
4	Highly Stable Pd-Based Catalytic Nanoarchitectures for Low Temperature Fuel Cells. *Fuel Cells*, **2008**, 8, 429-435	2.9	30
3	Improved kinetics of methanol oxidation on Pt/hollow carbon sphere catalysts. *Electrochimica Acta*, **2008**, 53, 8341-8345	6.7	57
2	Ultrastable, stretchable, highly conductive and transparent hydrogels enabled by salt-percolation for high-performance temperature and strain sensing. *Journal of Materials Chemistry C*,	7.1	26
1	Ultrasensitive, stretchable, and transparent humidity sensor based on ion-conductive double-network hydrogel thin films. *Science China Materials*,	7.1	3