

# Kaifei Gao

## List of Publications by Citations

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172  
papers

7,905  
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39  
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180  
ext. papers

9,601  
ext. citations

8.9  
avg, IF

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L-index

#	Paper	IF	Citations
172	WO <sub>3</sub> @Au@MnO <sub>2</sub> core-shell nanowires on carbon fabric for high-performance flexible supercapacitors. <i>Advanced Materials</i> , <b>2012</b> , 24, 938-44	24	592
171	Carbon nanothermometer containing gallium. <i>Nature</i> , <b>2002</b> , 415, 599	50.4	446
170	3D Synergistical MXene/Reduced Graphene Oxide Aerogel for a Piezoresistive Sensor. <i>ACS Nano</i> , <b>2018</b> , 12, 3209-3216	16.7	415
169	A highly flexible and sensitive piezoresistive sensor based on MXene with greatly changed interlayer distances. <i>Nature Communications</i> , <b>2017</b> , 8, 1207	17.4	378
168	Highly Self-Healable 3D Microsupercapacitor with MXene-Graphene Composite Aerogel. <i>ACS Nano</i> , <b>2018</b> , 12, 4224-4232	16.7	375
167	Highly Stretchable and Self-Healable Supercapacitor with Reduced Graphene Oxide Based Fiber Springs. <i>ACS Nano</i> , <b>2017</b> , 11, 2066-2074	16.7	338
166	3D hybrid porous Mxene-sponge network and its application in piezoresistive sensor. <i>Nano Energy</i> , <b>2018</b> , 50, 79-87	17.1	264
165	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zinc-Air Battery. <i>ACS Nano</i> , <b>2018</b> , 12, 1949-1958	16.7	255
164	Cable-type supercapacitors of three-dimensional cotton thread based multi-grade nanostructures for wearable energy storage. <i>Advanced Materials</i> , <b>2013</b> , 25, 4925-31	24	247
163	Solid-state high performance flexible supercapacitors based on polypyrrole-MnO <sub>2</sub> -carbon fiber hybrid structure. <i>Scientific Reports</i> , <b>2013</b> , 3, 2286	4.9	238
162	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. <i>Nano Energy</i> , <b>2015</b> , 11, 518-525	17.1	214
161	Bioinspired Microspines for a High-Performance Spray TiCT MXene-Based Piezoresistive Sensor. <i>ACS Nano</i> , <b>2020</b> , 14, 2145-2155	16.7	162
160	Three-dimensional WO <sub>3</sub> nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. <i>Chemical Communications</i> , <b>2011</b> , 47, 5804-6	5.8	143
159	A Flexible Integrated System Containing a Microsupercapacitor, a Photodetector, and a Wireless Charging Coil. <i>ACS Nano</i> , <b>2016</b> , 10, 11249-11257	16.7	142
158	Piezoresistive Sensor with High Elasticity Based on 3D Hybrid Network of Sponge@CNTs@Ag NPs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22374-81	9.5	138
157	Piezoresistive Pressure Sensor Based on Synergistical Innerconnect Polyvinyl Alcohol Nanowires/Wrinkled Graphene Film. <i>Small</i> , <b>2018</b> , 14, e1704149	11	137
156	A wire-shaped flexible asymmetric supercapacitor based on carbon fiber coated with a metal oxide and a polymer. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13461-13467	13	133

155	Recent Progress in Micro-Supercapacitors with In-Plane Interdigital Electrode Architecture. <i>Small</i> , <b>2017</b> , 13, 1701989	11	126
154	Inkjet printing of conductive patterns and supercapacitors using a multi-walled carbon nanotube/Ag nanoparticle based ink. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2407-2413	13	108
153	MXene/Silicon Van Der Waals Heterostructures for High-Speed Self-Driven Photodetectors. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700165	6.4	106
152	A flexible and highly sensitive pressure sensor based on elastic carbon foam. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1451-1458	7.1	97
151	Tungsten oxide nanowires grown on carbon cloth as a flexible cold cathode. <i>Advanced Materials</i> , <b>2010</b> , 22, 5292-6	24	92
150	Hierarchical nanostructures of polypyrrole@MnO <sub>2</sub> composite electrodes for high performance solid-state asymmetric supercapacitors. <i>Nanoscale</i> , <b>2014</b> , 6, 2922-8	7.7	90
149	White Light-Emitting Diode From Sb-Doped p-ZnO Nanowire Arrays/n-GaN Film. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2182-2188	15.6	77
148	Hollow MXene Sphere/Reduced Graphene Aerogel Composites for Piezoresistive Sensor with Ultra-High Sensitivity. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901064	6.4	77
147	A new approach for ultrahigh-performance piezoresistive sensor based on wrinkled PPy film with electrospun PVA nanowires as spacer. <i>Nano Energy</i> , <b>2017</b> , 41, 527-534	17.1	74
146	Inverse Spinel Cobalt/Iron Oxide and N-Doped Graphene Composite as an Efficient and Durable Bifunctional Catalyst for LiO <sub>2</sub> Batteries. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4082-4090	13.1	74
145	Temperature measurement using a gallium-filled carbon nanotube nanothermometer. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2913-2915	3.4	68
144	Ag nanoparticles@ZnO nanowire composite arrays: an absorption enhanced UV photodetector. <i>Optics Express</i> , <b>2014</b> , 22, 30148-55	3.3	66
143	Biodegradable and Electroactive Regenerated Bacterial Cellulose/MXene (Ti C T) Composite Hydrogel as Wound Dressing for Accelerating Skin Wound Healing under Electrical Stimulation. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2000872	10.1	66
142	Ultrathin and lightweight 3D free-standing Ni@NiO nanowire membrane electrode for a supercapacitor with excellent capacitance retention at high rates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 13627-34	9.5	64
141	All-fiber-based quasi-solid-state lithium-ion battery towards wearable electronic devices with outstanding flexibility and self-healing ability. <i>Nano Energy</i> , <b>2018</b> , 51, 425-433	17.1	53
140	Absolute photonic band gap in 2D honeycomb annular photonic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2015</b> , 379, 214-217	2.3	50
139	Fully screen printed highly conductive electrodes on various flexible substrates for asymmetric supercapacitors. <i>RSC Advances</i> , <b>2015</b> , 5, 85799-85805	3.7	48
138	A general method for preparing anatase TiO <sub>2</sub> -like-nanoarrays on various metal wires for fiber dye-sensitized solar cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 4420	4.9	47

137	Bandgap engineering of Ga <sub>x</sub> Zn <sub>1-x</sub> O nanowire arrays for wavelength-tunable light-emitting diodes. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 429-435	8.3	46
136	Well vertically aligned ZnO nanowire arrays with an ultra-fast recovery time for UV photodetector. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 255-260	2.6	45
135	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 276-281	19.5	40
134	Hybrid All-in-One Power Source Based on High-Performance Spherical Triboelectric Nanogenerators for Harvesting Environmental Energy. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001669	21.8	39
133	Melting and expansion behavior of indium in carbon nanotubes. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4133-4135	3.5	38
132	Wire-type MnO <sub>2</sub> /Multilayer graphene/Ni electrode for high-performance supercapacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 335, 113-120	8.9	35
131	Enhanced Electrocatalytic Activity by RGO/MWCNTs/NiO Counter Electrode for Dye-sensitized Solar Cells. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 298-306	19.5	34
130	A Self-Powered Fast-Response Ultraviolet Detector of p-n Homojunction Assembled from Two ZnO-Based Nanowires. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 11	19.5	33
129	Nanothermodynamic analysis of surface effect on expansion characteristics of Ga in carbon nanotubes. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3966-3968	3.4	33
128	Highly effective metal vapor absorbents based on carbon nanotubes. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4844-4846	3.4	33
127	High-performance piezoelectric energy harvesting of vertically aligned Pb(Zr,Ti)O nanorod arrays.. <i>RSC Advances</i> , <b>2018</b> , 8, 7422-7427	3.7	32
126	Series asymmetric supercapacitors based on free-standing inner-connection electrodes for high energy density and high output voltage. <i>Nanoscale</i> , <b>2014</b> , 6, 15073-9	7.7	32
125	NiO-NF/MWCNT nanocomposite catalyst as a counter electrode for high performance dye-sensitized solar cells. <i>Applied Surface Science</i> , <b>2015</b> , 331, 333-338	6.7	32
124	Flexible and high-sensitivity piezoresistive sensor based on MXene composite with wrinkle structure. <i>Ceramics International</i> , <b>2020</b> , 46, 23592-23598	5.1	31
123	Ag nanoparticles modified large area monolayer MoS phototransistors with high responsivity. <i>Optics Express</i> , <b>2017</b> , 25, 14565-14574	3.3	30
122	Graphene Aerogel Broken to Fragments for a Piezoresistive Pressure Sensor with a Higher Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33165-33172	9.5	29
121	Strategies for Air-Stable and Tunable Monolayer MoS <sub>2</sub> -Based Hybrid Photodetectors with High Performance by Regulating the Fully Inorganic Trihalide Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801744	8.1	29
120	Freestanding and flexible graphene wrapped MnO <sub>2</sub> /MoO <sub>3</sub> nanoparticle based asymmetric supercapacitors for high energy density and output voltage. <i>RSC Advances</i> , <b>2015</b> , 5, 45129-45135	3.7	28

119	Enhanced photo-response properties of a single ZnO microwire photodetector by coupling effect between localized Schottky barriers and piezoelectric potential. <i>Optics Express</i> , <b>2015</b> , 23, 21204-12	3.3	28
118	Enhancing light emission in flexible AC electroluminescent devices by tetrapod-like zinc oxide whiskers. <i>Optics Express</i> , <b>2016</b> , 24, 23419-23428	3.3	27
117	MoS-Based Photodetectors Powered by Asymmetric Contact Structure with Large Work Function Difference. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 34	19.5	26
116	Determination of polarization-fields across polytype interfaces in InAs nanopillars. <i>Advanced Materials</i> , <b>2014</b> , 26, 1052-7	24	26
115	Superelastic and ultralight electron source from modifying 3D reduced graphene aerogel microstructure. <i>Nano Energy</i> , <b>2017</b> , 33, 280-287	17.1	25
114	Three-dimensional hierarchical NiCo hydroxide@Ni <sub>3</sub> S <sub>2</sub> nanorod hybrid structure as high performance positive material for asymmetric supercapacitor. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 965-975	6.7	25
113	Piezotronic and piezo-phototronic logic computations using Au decorated ZnO microwires. <i>Nano Energy</i> , <b>2016</b> , 27, 587-594	17.1	25
112	Vertical finger-like asymmetric supercapacitors for enhanced performance at high mass loading and inner integrated photodetecting systems. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22199-22207	13	24
111	Extraction of nano-silicon with activated carbons simultaneously from rice husk and their synergistic catalytic effect in counter electrodes of dye-sensitized solar cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 39314	4.9	24
110	A flexible Zn-ion hybrid micro-supercapacitor based on MXene anode and V <sub>2</sub> O <sub>5</sub> cathode with high capacitance. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 130965	14.7	24
109	Graphene-Skeleton Heat-Coordinated and Nanoamorphous-Surface-State Controlled Pseudo-Negative-Photoconductivity of Tiny SnO <sub>2</sub> Nanoparticles. <i>Advanced Materials</i> , <b>2015</b> , 27, 3525-32	24	23
108	Highly efficient dye-sensitized solar cell with GNS/MWCNT/PANI as a counter electrode. <i>Materials Research Bulletin</i> , <b>2014</b> , 59, 272-277	5.1	23
107	MXene/cellulose nanofiber-foam based high performance degradable piezoresistive sensor with greatly expanded interlayer distances. <i>Nano Energy</i> , <b>2021</b> , 87, 106151	17.1	23
106	Fe-Doped p-ZnO Nanostructures/n-GaN Heterojunction for Blue-Free Orange Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700146	8.1	22
105	synthesis of MoS/graphene nanosheets as free-standing and flexible electrode paper for high-efficiency hydrogen evolution reaction.. <i>RSC Advances</i> , <b>2018</b> , 8, 10698-10705	3.7	22
104	Photonic band gaps in two-dimensional photonic crystals of core-shell-type dielectric nanorod heterostructures. <i>Optics Communications</i> , <b>2012</b> , 285, 1988-1992	2	22
103	TiCT MXene-Based Flexible Piezoresistive Physical Sensors.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	22
102	Characterization of a-plane orientation ZnO film grown on GaN/Sapphire template by pulsed laser deposition. <i>Applied Surface Science</i> , <b>2010</b> , 256, 4682-4686	6.7	21

101	Interior and Exterior Decoration of Transition Metal Oxide Through Cu/Cu Co-Doping Strategy for High-Performance Supercapacitor. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 61	19.5	21
100	Facile method to prepare 3D foam-like MnO <sub>2</sub> film/multilayer graphene film/Ni foam hybrid structure for flexible supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 1159-1167	5.7	20
99	Spiral wire-type stretchable all-solid-state supercapacitors based on MnO <sub>2</sub> /graphene/Ni wires. <i>Electrochimica Acta</i> , <b>2017</b> , 256, 44-51	6.7	20
98	P-type NiO nanoparticles enhanced acetylene black as efficient counter electrode for dye-sensitized solar cells. <i>Materials Research Bulletin</i> , <b>2015</b> , 67, 185-190	5.1	20
97	Controlled Growth of an MoS <sub>2</sub> -Graphene Hybrid Film as an Electrode in Self-Powered Two-Sided MoS <sub>2</sub> -Graphene/Sb <sub>2</sub> Se <sub>3</sub> /TiO <sub>2</sub> Photodetectors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	19
96	Hybrid Growth Modes of PbSe Nanocrystals with Oriented Attachment and Grain Boundary Migration. <i>Advanced Science</i> , <b>2019</b> , 6, 1802202	13.6	19
95	Improved two-temperature model and its application in femtosecond laser ablation of metal target. <i>Laser and Particle Beams</i> , <b>2010</b> , 28, 157-164	0.9	18
94	Research progress of MXenes-based wearable pressure sensors. <i>APL Materials</i> , <b>2020</b> , 8, 110702	5.7	18
93	In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. <i>Nano Letters</i> , <b>2018</b> , 18, 6597-6603	11.5	18
92	A high performance wire-shaped flexible lithium-ion battery based on silicon nanoparticles within polypyrrole/twisted carbon fibers. <i>RSC Advances</i> , <b>2017</b> , 7, 26601-26607	3.7	17
91	Strain-enhanced cable-type 3D UV photodetecting of ZnO nanowires on a Ni wire by coupling of piezotronics effect and pn junction. <i>Optics Express</i> , <b>2014</b> , 22, 3661-8	3.3	17
90	Atomically Thin Oxyhalide Solar-Blind Photodetectors. <i>Small</i> , <b>2020</b> , 16, e2000228	11	16
89	Bionic MXene based hybrid film Design for an Ultrasensitive Piezoresistive Pressure Sensor. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133458	14.7	16
88	In situ TEM observation of controlled growth of two-dimensional WS <sub>2</sub> with vertically aligned layers and high-temperature stability. <i>Nano Energy</i> , <b>2020</b> , 67, 104221	17.1	16
87	MnO <sub>2</sub> /porous carbon film/Ni electrodes with high-quality interface for high rate and performance flexible supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 218, 58-65	6.7	15
86	High-level-Fe-doped P-type ZnO nanowire array/n-GaN film for ultraviolet-free white light-emitting diodes. <i>Materials Letters</i> , <b>2019</b> , 239, 45-47	3.3	14
85	Orientation-dependent piezoresponse and high-performance energy harvesting of lead-free (K,Na)NbO <sub>3</sub> nanorod arrays. <i>RSC Advances</i> , <b>2017</b> , 7, 16908-16915	3.7	13
84	Improving Performance of Hybrid GraphenePerovskite Photodetector by a Scratch Channel. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900168	6.4	13

83	A Wearable and Highly Sensitive Textile-based Pressure Sensor with Ti3C2Tx Nanosheets. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 311, 112081	3.9	13
82	Theoretical design and experimental study of hydrothermal synthesis of KNbO3. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 193-198	3.9	13
81	Homogeneous ZnO nanowire arrays p-n junction for blue light-emitting diode applications. <i>Optics Express</i> , <b>2019</b> , 27, A1207-A1215	3.3	13
80	Engineering ultra-flattened-dispersion photonic crystal fibers with uniform holes by rotations of inner rings. <i>Photonics Research</i> , <b>2014</b> , 2, 59	6	12
79	Atomic configurations at InAs partial dislocation cores associated with Z-shape faulted dipoles. <i>Scientific Reports</i> , <b>2013</b> , 3, 3229	4.9	12
78	Optical and electrical characterization of HnGaZnO thin film fabricated by pulsed laser deposition for thin film transistor applications. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 215301	3	12
77	Pink all-inorganic halide perovskite nanocrystals with adjustable characteristics: Fully reversible cation exchange, improving the stability of dopant emission and light-emitting diode application. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152913	5.7	12
76	MXene-GaN van der Waals Heterostructures for High-Speed Self-Driven Photodetectors and Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000955	6.4	12
75	One-way optical transmission in silicon photonic crystal heterojunction with circular and square scatterers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2017</b> , 381, 2131-2135	2.3	11
74	Atomic-Scale Study of Cation Ordering in Potassium Tungsten Bronze Nanosheets. <i>Advanced Science</i> , <b>2017</b> , 4, 1600537	13.6	11
73	Fabrication of nanoscale Ga balls via a Coulomb explosion of microscale silica-covered Ga balls by TEM electron-beam irradiation. <i>Scientific Reports</i> , <b>2015</b> , 5, 11313	4.9	11
72	The underlying micro-mechanism of performance enhancement of non-polar n-ZnO/p-AlGaN ultraviolet light emitting diode with i-ZnO inserted layer. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 033505	3.4	11
71	Monolithic integration of deep ultraviolet LED with a multiplicative photoelectric converter. <i>Nano Energy</i> , <b>2019</b> , 66, 104181	17.1	11
70	High-Performance Flexible Pressure Sensor with a Self-Healing Function for Tactile Feedback.. <i>Advanced Science</i> , <b>2022</b> , e2200507	13.6	11
69	Phase boundary and annealing dependent piezoelectricity in lead-free (K,Na)NbO3 nanorod arrays. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 212904	3.4	10
68	An Ultrahigh Energy Density Flexible Asymmetric Microsupercapacitor Based on Ti3C2Tx and PPy/MnO2 with Wide Voltage Window. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000272	6.8	10
67	Nonpolar-plane ZnO films grown on GaN/sapphire templates with SiNx interlayer by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 145102	3	10
66	Silicon multi-branch nanostructures for decent field emission and excellent electrical transport. <i>Nanotechnology</i> , <b>2011</b> , 22, 145705	3.4	10



65	Electrically driven gallium movement in carbon nanotubes. <i>Nanotechnology</i> , <b>2012</b> , 23, 065704	3.4	10
64	Synthesis and microstructure of Fe <sub>3</sub> C encapsulated inside chain-like carbon nanocapsules. <i>Materials Letters</i> , <b>2010</b> , 64, 680-683	3.3	10
63	The high-performance MoO <sub>3</sub> /MXene cathodes for zinc-ion batteries based on oxygen vacancies and electrolyte engineering. <i>Nano Energy</i> , <b>2022</b> , 91, 106651	17.1	10
62	The highly-efficient light-emitting diodes based on transition metal dichalcogenides: from architecture to performance. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4323-4340	5.1	10
61	Roles of MXenes in Pressure Sensing: Preparation, Composite Structure Design and Mechanism.. <i>Advanced Materials</i> , <b>2022</b> , e2110608	24	10
60	Pulsed Laser Deposition Assisted van der Waals Epitaxial Large Area Quasi-2D ZnO Single-Crystal Plates on Fluorophlogopite Mica. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901156	4.6	9
59	Bi <sub>2</sub> Se <sub>3</sub> /CdS/TiO <sub>2</sub> hybrid photoelectrode and its band-edge levels. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 545, 105-110	5.7	9
58	Three-dimensional nanocomposite formed by hydrophobic multiwalled carbon nanotubes threading titanium dioxide as the counter electrode of enhanced performance dye-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 55071-55078	3.7	9
57	Bionic MXene actuator with multiresponsive modes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129288	14.7	9
56	Formation of short three dimensional porous assemblies of super hydrophobic acetylene black intertwined by copper oxide nanorods for a robust counter electrode of DSSCs. <i>RSC Advances</i> , <b>2015</b> , 5, 35635-35642	3.7	8
55	Self-Powered Graphene Oxide Humidity Sensor Based on Potentiometric Humidity Transduction Mechanism. <i>Advanced Functional Materials</i> , 2107330	15.6	8
54	Ultrahigh gravimetric and volumetric capacitance in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene negative electrode enabled by surface modification and in-situ intercalation. <i>Journal of Power Sources</i> , <b>2022</b> , 521, 230965	8.9	8
53	Interlayer-spacing-regulated MXene/rGO Foam for Multi-functional Zinc-ion Microcapacitors. <i>Energy Storage Materials</i> , <b>2022</b> , 50, 444-453	19.4	8
52	Facile, rapid and in-situ synthesis of ZnO nanoparticle films on Zn wires for fiber dye-sensitized solar cells. <i>Materials Research Bulletin</i> , <b>2015</b> , 66, 244-248	5.1	7
51	Layer-by-layer deposition of CNT and CNT+ hybrid films for platinum free counters electrodes of dye-sensitized-solar-cells. <i>RSC Advances</i> , <b>2015</b> , 5, 95551-95557	3.7	7
50	Self-Healing Microsupercapacitors with Size-Dependent 2D MXene. <i>ChemElectroChem</i> , <b>2020</b> , 7, 821-829	4.3	7
49	Photonic band gaps in square photonic crystal slabs of core-shell-type dielectric nanorod heterostructures. <i>Solid State Communications</i> , <b>2013</b> , 172, 10-14	1.6	7
48	Chemical vapor deposition of a PbSe/CdS/nitrogen-doped TiO <sub>2</sub> nanorod array photoelectrode and its band-edge level structure. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 2302	3.6	7



47	Needle-Like SiC Nanorods. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, L1065-L1067	1.4	7
46	Monolayer MoSe <sub>2</sub> /NiO van der Waals heterostructures for infrared light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13613-13621	7.1	7
45	Room-temperature quaternary alkylammonium passivation toward morphology-controllable CsPbBr <sub>3</sub> nanocrystals with excellent luminescence and stability for white LEDs. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129349	14.7	7
44	Study of the Polarization Effect in InAs Quantum Dots/GaAs Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4228-4234	3.8	6
43	Crystal structure, optical behavior and electrical conduction of the new organic/inorganic compound CH <sub>3</sub> NH <sub>3</sub> CdI <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 9821-9828	2.1	6
42	UV-free red electroluminescence from the cross-connected p-ZnO:Cu nanobushes/n-GaN light emitting diode. <i>Optics Express</i> , <b>2016</b> , 24, 3940-9	3.3	6
41	Polarity continuation and frustration in ZnSe nanospirals. <i>Scientific Reports</i> , <b>2014</b> , 4, 7447	4.9	6
40	Multicolour electroluminescence from light emitting diode based on ZnO:Cu/p-GaN heterojunction at positive and reverse bias voltage. <i>RSC Advances</i> , <b>2015</b> , 5, 104386-104391	3.7	6
39	Enhancement of ultraviolet detecting by coupling the photoconductive behavior of GaN nanowires and p-n junction. <i>Optics Express</i> , <b>2012</b> , 20, 20748-53	3.3	6
38	MXene/rGO/PS spheres multiple physical networks as high-performance pressure sensor. <i>Nano Energy</i> , <b>2022</b> , 95, 106986	17.1	6
37	A novel TiSe <sub>2</sub> (de)intercalation type anode for aqueous zinc-based energy storage. <i>Nano Energy</i> , <b>2022</b> , 93, 106896	17.1	6
36	All Fiber Based Electrochemical Capacitor towards Wearable AC Line Filters with Outstanding Rate Capability. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1450-1457	4.3	6
35	Electron Holographic Study of Semiconductor Light-Emitting Diodes. <i>Small</i> , <b>2018</b> , 14, 1701996	11	6
34	Strong intrinsic room-temperature ferromagnetism in freestanding non-van der Waals ultrathin 2D crystals. <i>Nature Communications</i> , <b>2021</b> , 12, 5688	17.4	6
33	Sublimation and related thermal stability of PbSe nanocrystals with effective size control evidenced by in situ transmission electron microscopy. <i>Nano Energy</i> , <b>2020</b> , 75, 104816	17.1	5
32	In situ localized formation of cesium lead bromide nanocomposites for fluorescence micro-patterning technology achieved by organic solvent polymerization. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3409-3417	7.1	5
31	Study of Charge Distributions and Electrical Properties in GaAs/AlGaAs Single Quantum Well/Nanowire Heterostructures. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26888-26894	3.8	5
30	Versatile Route to the Controlled Synthesis of Multilevel Branched Silicon Submicrometer/Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 134-138	3.8	5

29	Revealing the Phase-Transition Dynamics and Mechanism in a Spinel LiTiO Anode Material through in Situ Electron Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20874-20881	9.5	5
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27	Unveiling the Nucleation Dynamics and Growth Mechanism of Layered MoS <sub>2</sub> from Crystalline K <sub>2</sub> MoS <sub>4</sub> by in Situ Transmission Electron Microscopy. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 4069-4076	3.5	4
26	One-Dimensional ABX <sub>3</sub> -Type Fluorescent Crystal: CH <sub>3</sub> NH <sub>3</sub> ZnI <sub>3</sub> . <i>Crystal Research and Technology</i> , <b>2018</b> , 53, 1800017	1.3	4
25	Evolution of the composition, structure, and piezoelectric performance of (K <sub>1-x</sub> Na <sub>x</sub> )NbO <sub>3</sub> nanorod arrays with hydrothermal reaction time. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 142904	3.4	4
24	Polarization-independent one-way transmission by silicon annular photonic crystal antireflection structures. <i>Optics Communications</i> , <b>2018</b> , 420, 127-132	2	4
23	Fe- and Fe <sub>3</sub> C-filled carbon nanotube-aligned arrays and flower-like carbon nanostructured clusters with a high coercivity. <i>Micro and Nano Letters</i> , <b>2012</b> , 7, 271	0.9	4
22	Study of the Growth Mechanism of Solution-Synthesized Symmetric Tellurium Nanoflakes at Atomic Resolution. <i>Small</i> , <b>2021</b> , 17, e2005801	11	4
21	Bandgap-graded ZnO/(CdS) <sub>1-x</sub> (ZnS) <sub>x</sub> coaxial nanowire arrays for semiconductor-sensitized solar cells. <i>Materials Research Express</i> , <b>2014</b> , 1, 015021	1.7	3
20	SnO <sub>2</sub> Nanoparticles: Graphene-Skeleton Heat-Coordinated and Nanoamorphous-Surface-State Controlled Pseudo-Negative-Photoconductivity of Tiny SnO <sub>2</sub> Nanoparticles (Adv. Mater. 23/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 3579-3579	24	3
19	An Ion Channel-Induced Self-Powered Flexible Pressure Sensor Based on Potentiometric Transduction Mechanism. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 2108856	15.6	3
18	Positive and negative photoconductivity characteristics in CsPbBr <sub>3</sub> /graphene heterojunction. <i>Nanotechnology</i> , <b>2021</b> , 32, 085202	3.4	3
17	Crystal structure and electrical conduction of the new organic-inorganic compound (CH <sub>2</sub> ) <sub>2</sub> (NH <sub>3</sub> ) <sub>2</sub> CdI <sub>4</sub> . <i>Journal of Molecular Structure</i> , <b>2018</b> , 1156, 450-456	3.4	3
16	Ga filled nanothermometers with high sensitivity and wide measuring range. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 6397-400	1.3	2
15	Atomic scale study of the oxygen annealing effect on piezoelectricity enhancement of (K,Na)NbO <sub>3</sub> nanorods. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15830-15838	7.1	2
14	Linear regulation of electrical characteristics of InSe/Antimonene heterojunction via external electric field and strain. <i>Surfaces and Interfaces</i> , <b>2021</b> , 23, 101014	4.1	2
13	Study of structure-property relationship of semiconductor nanomaterials by off-axis electron holography. <i>Journal of Semiconductors</i> , <b>2022</b> , 43, 041103	2.3	2
12	Study of nanometer-scale structures and electrostatic properties of InAs quantum dots decorating GaAs/AlAs core/shell nanowires. <i>Nanotechnology</i> , <b>2020</b> , 31, 245701	3.4	1

11	Atomic-scale analysis of cation ordering in reduced calcium titanate. <i>Scientific Reports</i> , <b>2017</b> , 7, 14977	4.9	1
10	High extraction efficiency in GaN-based light-emitting diodes with air-hole photonic crystal slab. <i>Modern Physics Letters B</i> , <b>2014</b> , 28, 1450173	1.6	1
9	Suppression of near-edge optical absorption band in sputter deposited hafnium oxynitride via nitrogen incorporation and annealing. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 145302	3	1
8	Investigations on the Electrochemical and Mechanical Properties of Sb O Nanobelts by In Situ Transmission Electron Microscopy.. <i>Small Methods</i> , <b>2022</b> , e2101416	12.8	1
7	In Situ TEM Investigations on the Controlled Phase Transformation of Vertically Aligned WS <sub>2</sub> at Designated Locations on an Atomic Scale. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 2761-2769	3.8	1
6	In Situ TEM: Theory and Applications. <i>Springer Tracts in Modern Physics</i> , <b>2018</b> , 381-477	0.1	1
5	Polarization-independent one-way transmission of silicon annular photonic crystal heterojunctions. <i>AIP Advances</i> , <b>2018</b> , 8, 095011	1.5	1
4	Tensile and flexible high-sensitive spandex fiber strain sensor enhanced by carbon nanotubes/Ag nanoparticles. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
3	Subtle energy difference determining the delicately stable state of a solid object on a liquid medium with an arbitrary surface area. <i>Nano Energy</i> , <b>2019</b> , 60, 231-234	17.1	0
2	Facile synthesis of novel Zn <sub>5</sub> Mo <sub>2</sub> O <sub>11</sub> ·nH <sub>2</sub> O nanoflowers with excellent rate capability in supercapacitors. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230816	8.9	0
1	Yb/Er coordinatively doping in bilayer WSe <sub>2</sub> for fascinating up-conversion luminescence. <i>Nano Energy</i> , <b>2020</b> , 78, 105317	17.1	0