Kaifei Gao

List of Publications by Year
in descending order

179 papers	11,583 citations	38660 50 h-index	30848 102 g-index
180 all docs	180 docs citations	180 times ranked	12390 citing authors

#	Article	IF	Citations
1	3D Synergistical MXene/Reduced Graphene Oxide Aerogel for a Piezoresistive Sensor. ACS Nano, 2018, 12, 3209-3216.	7.3	654
2	WO_{3â€“x}@Au@MnO₂ Coreâ€“Shell Nanowires on Carbon Fabric for Highâ€Performance Flexible Supercapacitors. Advanced Materials, 2012, 24, 938-944.	11.1	641
3	Highly Self-Healable 3D Microsupercapacitor with MXeneâ€“Graphene Composite Aerogel. ACS Nano, 2018, 12, 4224-4232.	7.3	564
4	A highly flexible and sensitive piezoresistive sensor based on MXene with greatly changed interlayer distances. Nature Communications, 2017, 8, 1207.	5.8	560
5	Carbon nanothermometer containing gallium. Nature, 2002, 415, 599-599.	13.7	511
6	3D hybrid porous Mxene-sponge network and its application in piezoresistive sensor. Nano Energy, 2018, 50, 79-87.	8.2	423
7	Highly Stretchable and Self-Healable Supercapacitor with Reduced Graphene Oxide Based Fiber Springs. ACS Nano, 2017, 11, 2066-2074.	7.3	413
8	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zincâ€“Air Battery. ACS Nano, 2018, 12, 1949-1958.	7.3	336
9	Bioinspired Microspines for a High-Performance Spray Ti₃C₂T_x MXene-Based Piezoresistive Sensor. ACS Nano, 2020, 14, 2145-2155.	7.3	330
10	Cableâ€Type Supercapacitors of Threeâ€Dimensional Cotton Thread Based Multiâ€Grade Nanostructures for Wearable Energy Storage. Advanced Materials, 2013, 25, 4925-4931.	11.1	267
11	Solid-State High Performance Flexible Supercapacitors Based on Polypyrrole-MnO2-Carbon Fiber Hybrid Structure. Scientific Reports, 2013, 3, 2286.	1.6	259
12	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. Nano Energy, 2015, 11, 518-525.	8.2	248
13	Piezoresistive Pressure Sensor Based on Synergistical Innerconnect Polyvinyl Alcohol Nanowires/Wrinkled Graphene Film. Small, 2018, 14, e1704149.	5.2	186
14	Biodegradable and Electroactive Regenerated Bacterial Cellulose/MXene (Ti₃C₂T_x) Composite Hydrogel as Wound Dressing for Accelerating Skin Wound Healing under Electrical Stimulation. Advanced Healthcare Materials, 2020, 9, e2000872.	3.9	184
15	Recent Progress in Microâ€Supercapacitors with Inâ€Plane Interdigital Electrode Architecture. Small, 2017, 13, 1701989.	5.2	180
16	Ti₃C₂T_x MXene-Based Flexible Piezoresistive Physical Sensors. ACS Nano, 2022, 16, 1734-1758.	7.3	177
17	Piezoresistive Sensor with High Elasticity Based on 3D Hybrid Network of Sponge@CNTs@Ag NPs. ACS Applied Materials & Interfaces, 2016, 8, 22374-22381.	4.0	176
18	A Flexible Integrated System Containing a Microsupercapacitor, a Photodetector, and a Wireless Charging Coil. ACS Nano, 2016, 10, 11249-11257.	7.3	166

#	Article	IF	Citations
19	MXeneâ€“Silicon Van Der Waals Heterostructures for Highâ€Speed Selfâ€Driven Photodetectors. Advanced Electronic Materials, 2017, 3, 1700165.	2.6	162
20	Three-dimensional WO3 nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. Chemical Communications, 2011, 47, 5804.	2.2	158
21	A wire-shaped flexible asymmetric supercapacitor based on carbon fiber coated with a metal oxide and a polymer. Journal of Materials Chemistry A, 2015, 3, 13461-13467.	5.2	149
22	Hollow MXene Sphere/Reduced Graphene Aerogel Composites for Piezoresistive Sensor with Ultraâ€High Sensitivity. Advanced Electronic Materials, 2020, 6, 1901064.	2.6	137
23	Inkjet printing of conductive patterns and supercapacitors using a multi-walled carbon nanotube/Ag nanoparticle based ink. Journal of Materials Chemistry A, 2015, 3, 2407-2413.	5.2	130
24	A flexible and highly sensitive pressure sensor based on elastic carbon foam. Journal of Materials Chemistry C, 2018, 6, 1451-1458.	2.7	127
25	Inverse Spinel Cobaltâ€“Iron Oxide and N-Doped Graphene Composite as an Efficient and Durable Bifuctional Catalyst for Liâ€“O₂ Batteries. ACS Catalysis, 2018, 8, 4082-4090.	5.5	122
26	Hierarchical nanostructures of polypyrrole@MnO2 composite electrodes for high performance solid-state asymmetric supercapacitors. Nanoscale, 2014, 6, 2922.	2.8	103
27	A new approach for ultrahigh-performance piezoresistive sensor based on wrinkled PPy film with electrospun PVA nanowires as spacer. Nano Energy, 2017, 41, 527-534.	8.2	101
28	Bionic MXene based hybrid film design for an ultrasensitive piezoresistive pressure sensor. Chemical Engineering Journal, 2022, 431, 133458.	6.6	98
29	Tungsten Oxide Nanowires Grown on Carbon Cloth as a Flexible Cold Cathode. Advanced Materials, 2010, 22, 5292-5296.	11.1	93
30	Roles of MXene in Pressure Sensing: Preparation, Composite Structure Design, and Mechanism. Advanced Materials, 2022, 34, e2110608.	11.1	90
31	Ag nanoparticles@ZnO nanowire composite arrays: an absorption enhanced UV photodetector. Optics Express, 2014, 22, 30148.	1.7	85
32	Highâ€Performance Flexible Pressure Sensor with a Selfâ€Healing Function for Tactile Feedback. Advanced Science, 2022, 9, e2200507.	5.6	84
33	Flexible MXene/Bacterial Cellulose Film Sound Detector Based on Piezoresistive Sensing Mechanism. ACS Nano, 2022, 16, 8461-8471.	7.3	84
34	All-fiber-based quasi-solid-state lithium-ion battery towards wearable electronic devices with outstanding flexibility and self-healing ability. Nano Energy, 2018, 51, 425-433.	8.2	83
35	MXene/cellulose nanofiber-foam based high performance degradable piezoresistive sensor with greatly expanded interlayer distances. Nano Energy, 2021, 87, 106151.	8.2	82
36	White Lightâ€Emitting Diode From Sbâ€Doped pâ€ZnO Nanowire Arrays/nâ€GaN Film. Advanced Functional Materials, 2015, 25, 2182-2188.	7.8	80

#	Article	IF	Citations
37	Selfâ€Powered Graphene Oxide Humidity Sensor Based on Potentiometric Humidity Transduction Mechanism. Advanced Functional Materials, 2022, 32, 2107330.	7.8	76
38	Temperature measurement using a gallium-filled carbon nanotube nanothermometer. Applied Physics Letters, 2003, 83, 2913-2915.	1.5	74
39	Flexible and high-sensitivity piezoresistive sensor based on MXene composite with wrinkle structure. Ceramics International, 2020, 46, 23592-23598.	2.3	73
40	Ultrathin and Lightweight 3D Free-Standing Ni@NiO Nanowire Membrane Electrode for a Supercapacitor with Excellent Capacitance Retention at High Rates. ACS Applied Materials & Interfaces, 2014, 6, 13627-13634.	4.0	71
41	Hybrid Allâ€inâ€One Power Source Based on Highâ€Performance Spherical Triboelectric Nanogenerators for Harvesting Environmental Energy. Advanced Energy Materials, 2020, 10, 2001669.	10.2	71
42	Absolute photonic band gap in 2D honeycomb annular photonic crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 214-217.	0.9	65
43	Strong intrinsic room-temperature ferromagnetism in freestanding non-van der Waals ultrathin 2D crystals. Nature Communications, 2021, 12, 5688.	5.8	61
44	Graphene Aerogel Broken to Fragments for a Piezoresistive Pressure Sensor with a Higher Sensitivity. ACS Applied Materials & Interfaces, 2019, 11, 33165-33172.	4.0	58
45	A flexible Zn-ion hybrid micro-supercapacitor based on MXene anode and V2O5 cathode with high capacitance. Chemical Engineering Journal, 2022, 428, 130965.	6.6	58
46	MXene/rGO/PS spheres multiple physical networks as high-performance pressure sensor. Nano Energy, 2022, 95, 106986.	8.2	58
47	Fully screen printed highly conductive electrodes on various flexible substrates for asymmetric supercapacitors. RSC Advances, 2015, 5, 85799-85805.	1.7	56
48	The high-performance MoO3â^'x/MXene cathodes for zinc-ion batteries based on oxygen vacancies and electrolyte engineering. Nano Energy, 2022, 91, 106651.	8.2	56
49	Bandgap engineering of Ga_xZn_{1â€“x}O nanowire arrays for wavelengthâ€tunable lightâ€emitting diodes. Laser and Photonics Reviews, 2014, 8, 429-435.	4.4	52
50	Interior and Exterior Decoration of Transition Metal Oxide Through Cu0/Cu+ Co-Doping Strategy for High-Performance Supercapacitor. Nano-Micro Letters, 2021, 13, 61.	14.4	52
51	Well vertically aligned ZnO nanowire arrays with an ultra-fast recovery time for UV photodetector. Applied Physics A: Materials Science and Processing, 2012, 107, 255-260.	1.1	51
52	A General Method for Preparing Anatase TiO2 Treelike-Nanoarrays on Various Metal Wires for Fiber Dye-Sensitized Solar Cells. Scientific Reports, 2014, 4, 4420.	1.6	51
53	Interlayer-spacing-regulated MXene/rGO Foam for Multi-functional Zinc-ion Microcapacitors. Energy Storage Materials, 2022, 50, 444-453.	9.5	51
54	MoS2-Based Photodetectors Powered by Asymmetric Contact Structure with Large Work Function Difference. Nano-Micro Letters, 2019, 11, 34.	14.4	49

#	Article	IF	Citations
55	High-performance piezoelectric energy harvesting of vertically aligned Pb(Zr,Ti)O₃ nanorod arrays. RSC Advances, 2018, 8, 7422-7427.	1.7	45
56	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. Nano-Micro Letters, 2015, 7, 276-281.	14.4	43
57	Strategies for Airâ€Stable and Tunable Monolayer MoS₂â€Based Hybrid Photodetectors with High Performance by Regulating the Fully Inorganic Trihalide Perovskite Nanocrystals. Advanced Optical Materials, 2019, 7, 1801744.	3.6	43
58	Ag nanoparticles modified large area monolayer MoS_2 phototransistors with high responsivity. Optics Express, 2017, 25, 14565.	1.7	42
59	Enhanced Electrocatalytic Activity by RGO/MWCNTs/NiO Counter Electrode for Dye-sensitized Solar Cells. Nano-Micro Letters, 2015, 7, 298-306.	14.4	41
60	The highly-efficient light-emitting diodes based on transition metal dichalcogenides: from architecture to performance. Nanoscale Advances, 2020, 2, 4323-4340.	2.2	41
61	A novel TiSe2 (de)intercalation type anode for aqueous zinc-based energy storage. Nano Energy, 2022, 93, 106896.	8.2	41
62	Melting and expansion behavior of indium in carbon nanotubes. Applied Physics Letters, 2002, 81, 4133-4135.	1.5	40
63	Wire-type MnO 2 /Multilayer graphene/Ni electrode for high-performance supercapacitors. Journal of Power Sources, 2016, 335, 113-120.	4.0	40
64	Nanothermodynamic analysis of surface effect on expansion characteristics of Ga in carbon nanotubes. Applied Physics Letters, 2002, 81, 3966-3968.	1.5	39
65	A Self-Powered Fast-Response Ultraviolet Detector of pâ€“n Homojunction Assembled from Two ZnO-Based Nanowires. Nano-Micro Letters, 2017, 9, 11.	14.4	39
66	Highly effective metal vapor absorbents based on carbon nanotubes. Applied Physics Letters, 2002, 81, 4844-4846.	1.5	36
67	NiO-NF/MWCNT nanocomposite catalyst as a counter electrode for high performance dye-sensitized solar cells. Applied Surface Science, 2015, 331, 333-338.	3.1	36
68	An Ultrahigh Energy Density Flexible Asymmetric Microsupercapacitor Based on Ti₃C₂T_x and PPy/MnO₂ with Wide Voltage Window. Advanced Materials Technologies, 2020, 5, 2000272.	3.0	36
69	Grapheneâ€Skeleton Heatâ€Coordinated and Nanoamorphousâ€Surfaceâ€State Controlled Pseudoâ€Negativeâ€Photoconductivity of Tiny SnO₂ Nanoparticles. Advanced Materials, 2015, 27, 3525-3532.	11.1	35
70	MXeneâ€GaN van der Waals Heterostructures for Highâ€Speed Selfâ€Driven Photodetectors and Lightâ€Emitting Diodes. Advanced Electronic Materials, 2021, 7, 2000955.	2.6	35
71	An Ion Channelâ€Induced Selfâ€Powered Flexible Pressure Sensor Based on Potentiometric Transduction Mechanism. Advanced Functional Materials, 2022, 32, 2108856.	7.8	35
72	In situ synthesis of MoS₂/graphene nanosheets as free-standing and flexible electrode paper for high-efficiency hydrogen evolution reaction. RSC Advances, 2018, 8, 10698-10705.	1.7	34

#	Article	IF	Citations
73	Bionic MXene actuator with multiresponsive modes. Chemical Engineering Journal, 2021, 417, 129288.	6.6	34
74	Ultrahigh gravimetric and volumetric capacitance in Ti3C2Tx MXene negative electrode enabled by surface modification and in-situ intercalation. Journal of Power Sources, 2022, 521, 230965.	4.0	34
75	Series asymmetric supercapacitors based on free-standing inner-connection electrodes for high energy density and high output voltage. Nanoscale, 2014, 6, 15073-15079.	2.8	33
76	Enhancing light emission in flexible AC electroluminescent devices by tetrapod-like zinc oxide whiskers. Optics Express, 2016, 24, 23419.	1.7	33
77	Three-dimensional hierarchical NiCo hydroxide@Ni3S2 nanorod hybrid structure as high performance positive material for asymmetric supercapacitor. Electrochimica Acta, 2016, 222, 965-975.	2.6	32
78	A Wearable and Highly Sensitive Textile-based Pressure Sensor with Ti3C2Tx Nanosheets. Sensors and Actuators A: Physical, 2020, 311, 112081.	2.0	32
79	Enhanced photo-response properties of a single ZnO microwire photodetector by coupling effect between localized Schottky barriers and piezoelectric potential. Optics Express, 2015, 23, 21204.	1.7	31
80	Research progress of MXenes-based wearable pressure sensors. APL Materials, 2020, 8, .	2.2	31
81	Atomically Thin Oxyhalide Solarâ€Blind Photodetectors. Small, 2020, 16, e2000228.	5.2	31
82	Freestanding and flexible graphene wrapped MnO₂/MoO₃ nanoparticle based asymmetric supercapacitors for high energy density and output voltage. RSC Advances, 2015, 5, 45129-45135.	1.7	30
83	Piezotronic and piezo-phototronic logic computations using Au decorated ZnO microwires. Nano Energy, 2016, 27, 587-594.	8.2	30
84	Extraction of nano-silicon with activated carbons simultaneously from rice husk and their synergistic catalytic effect in counter electrodes of dye-sensitized solar cells. Scientific Reports, 2016, 6, 39314.	1.6	29
85	Vertical finger-like asymmetric supercapacitors for enhanced performance at high mass loading and inner integrated photodetecting systems. Journal of Materials Chemistry A, 2017, 5, 22199-22207.	5.2	29
86	In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. Nano Letters, 2018, 18, 6597-6603.	4.5	29
87	Improving Performance of Hybrid Grapheneâ€“Perovskite Photodetector by a Scratch Channel. Advanced Electronic Materials, 2019, 5, 1900168.	2.6	28
88	Controlled Growth of an Mo2Câ€”Graphene Hybrid Film as an Electrode in Self-Powered Two-Sided Mo2Câ€”Graphene/Sb2S0.42Se2.58/TiO2 Photodetectors. Sensors, 2019, 19, 1099.	2.1	28
89	Photonic band gaps in two-dimensional photonic crystals of core-shell-type dielectric nanorod heterostructures. Optics Communications, 2012, 285, 1988-1992.	1.0	27
90	Determination of Polarizationâ€Fields Across Polytype Interfaces in InAs Nanopillars. Advanced Materials, 2014, 26, 1052-1057.	11.1	27

#	Article	IF	Citations
91	Highly efficient dye-sensitized solar cell with GNS/MWCNT/PANI as a counter electrode. Materials Research Bulletin, 2014, 59, 272-277.	2.7	27
92	Feâ€Doped pâ€ZnO Nanostructures/nâ€GaN Heterojunction for â€œBlueâ€Freeâ€•Orange Lightâ€Emitting Diodes. Advanced Optical Materials, 2017, 5, 1700146.	3.6	27
93	Facile method to prepare 3D foam-like MnO2 film/multilayer graphene film/Ni foam hybrid structure for flexible supercapacitors. Journal of Alloys and Compounds, 2017, 696, 1159-1167.	2.8	27
94	Improved two-temperature model and its application in femtosecond laser ablation of metal target. Laser and Particle Beams, 2010, 28, 157-164.	0.4	26
95	Superelastic and ultralight electron source from modifying 3D reduced graphene aerogel microstructure. Nano Energy, 2017, 33, 280-287.	8.2	26
96	Hybrid Growth Modes of PbSe Nanocrystals with Oriented Attachment and Grain Boundary Migration. Advanced Science, 2019, 6, 1802202.	5.6	26
97	In situ TEM observation of controlled growth of two-dimensional WS2 with vertically aligned layers and high-temperature stability. Nano Energy, 2020, 67, 104221.	8.2	26
98	First-Principles Study of Ti-Deficient Ti₃C₂ MXene Nanosheets as NH₃ Gas Sensors. ACS Applied Nano Materials, 2022, 5, 2470-2475.	2.4	26
99	P-type NiO nanoparticles enhanced acetylene black as efficient counter electrode for dye-sensitized solar cells. Materials Research Bulletin, 2015, 67, 185-190.	2.7	24
100	Homogeneous ZnO nanowire arrays p-n junction for blue light-emitting diode applications. Optics Express, 2019, 27, A1207.	1.7	24
101	A high performance wire-shaped flexible lithium-ion battery based on silicon nanoparticles within polypyrrole/twisted carbon fibers. RSC Advances, 2017, 7, 26601-26607.	1.7	23
102	Spiral wire-type stretchable all-solid-state supercapacitors based on MnO2/graphene/Ni wires. Electrochimica Acta, 2017, 256, 44-51.	2.6	23
103	Characterization of a-plane orientation ZnO film grown on GaN/Sapphire template by pulsed laser deposition. Applied Surface Science, 2010, 256, 4682-4686.	3.1	22
104	3D Porous MXene Aerogel through Gas Foaming for Multifunctional Pressure Sensor. Research, 2022, 2022, .	2.8	22
105	Strain-enhanced cable-type 3D UV photodetecting of ZnO nanowires on a Ni wire by coupling of piezotronics effect and pn junction. Optics Express, 2014, 22, 3661.	1.7	19
106	A â€œone-for-threeâ€•strategy through a facile one-step hydrothermal engineering of commercial MoO₃ for high-performance proton storage. Journal of Materials Chemistry A, 2022, 10, 4043-4052.	5.2	19
107	MnO2/porous carbon film/Ni electrodes with high-quality interface for high rate and performance flexible supercapacitors. Electrochimica Acta, 2016, 218, 58-65.	2.6	18
108	Atomicâ€Scale Study of Cation Ordering in Potassium Tungsten Bronze Nanosheets. Advanced Science, 2017, 4, 1600537.	5.6	18

#	Article	IF	Citations
109	Orientation-dependent piezoresponse and high-performance energy harvesting of lead-free (K,Na)NbO3 nanorod arrays. RSC Advances, 2017, 7, 16908-16915.	1.7	17
110	Monolithic integration of deep ultraviolet LED with a multiplicative photoelectric converter. Nano Energy, 2019, 66, 104181.	8.2	17
111	High-level-Fe-doped P-type ZnO nanowire array/n-GaN film for ultraviolet-free white light-emitting diodes. Materials Letters, 2019, 239, 45-47.	1.3	17
112	Room-temperature quaternary alkylammonium passivation toward morphology-controllable CsPbBr3 nanocrystals with excellent luminescence and stability for white LEDs. Chemical Engineering Journal, 2021, 417, 129349.	6.6	17
113	Theoretical design and experimental study of hydrothermal synthesis of KNbO3. Journal of Physics and Chemistry of Solids, 2008, 69, 193-198.	1.9	16
114	Pink all-inorganic halide perovskite nanocrystals with adjustable characteristics: Fully reversible cation exchange, improving the stability of dopant emission and light-emitting diode application. Journal of Alloys and Compounds, 2020, 818, 152913.	2.8	16
115	Engineering ultra-flattened-dispersion photonic crystal fibers with uniform holes by rotations of inner rings. Photonics Research, 2014, 2, 59.	3.4	15
116	Pulsed Laser Deposition Assisted van der Waals Epitaxial Large Area Quasiâ€2D ZnO Singleâ€Crystal Plates on Fluorophlogopite Mica. Advanced Materials Interfaces, 2019, 6, 1901156.	1.9	15
117	Enhanced stability of CsPbBr3 Quantum Dots by anchoring on the hierarchical three-dimensional layered double hydroxide. Chemical Engineering Journal, 2021, 425, 130471.	6.6	15
118	Fabrication of nanoscale Ga balls via a Coulomb explosion of microscale silica-covered Ga balls by TEM electron-beam irradiation. Scientific Reports, 2015, 5, 11313.	1.6	14
119	Phase boundary and annealing dependent piezoelectricity in lead-free (K,Na)NbO3 nanorod arrays. Applied Physics Letters, 2017, 110, .	1.5	14
120	The underlying micro-mechanism of performance enhancement of non-polar n-ZnO/p-AlGaN ultraviolet light emitting diode with i-ZnO inserted layer. Applied Physics Letters, 2018, 112, .	1.5	14
121	In situ localized formation of cesium lead bromide nanocomposites for fluorescence micro-patterning technology achieved by organic solvent polymerization. Journal of Materials Chemistry C, 2020, 8, 3409-3417.	2.7	14
122	Optical and electrical characterization of Î±-InGaZnO thin film fabricated by pulsed laser deposition for thin film transistor applications. Journal Physics D: Applied Physics, 2009, 42, 215301.	1.3	13
123	Atomic configurations at InAs partial dislocation cores associated with Z-shape faulted dipoles. Scientific Reports, 2013, 3, 3229.	1.6	13
124	Sublimation and related thermal stability of PbSe nanocrystals with effective size control evidenced by in situ transmission electron microscopy. Nano Energy, 2020, 75, 104816.	8.2	13
125	Electrically driven gallium movement in carbon nanotubes. Nanotechnology, 2012, 23, 065704.	1.3	12
126	Selfâ€Healing Microsupercapacitors with Sizeâ€Dependent 2D MXene. ChemElectroChem, 2020, 7, 821-829.	1.7	12

#	Article	IF	Citations
127	Positive and negative photoconductivity characteristics in CsPbBr₃/graphene heterojunction. Nanotechnology, 2021, 32, 085202.	1.3	12
128	Synthesis and microstructure of Fe3C encapsulated inside chain-like carbon nanocapsules. Materials Letters, 2010, 64, 680-683.	1.3	11
129	One-way optical transmission in silicon photonic crystal heterojunction with circular and square scatterers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2131-2135.	0.9	11
130	Monolayer MoSe₂/NiO van der Waals heterostructures for infrared light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 13613-13621.	2.7	11
131	All Fiber Based Electrochemical Capacitor towards Wearable AC Line Filters with Outstanding Rate Capability. ChemElectroChem, 2019, 6, 1450-1457.	1.7	11
132	Study of the Growth Mechanism of Solutionâ€Synthesized Symmetric Tellurium Nanoflakes at Atomic Resolution. Small, 2021, 17, e2005801.	5.2	11
133	Needle-Like SiC Nanorods. Japanese Journal of Applied Physics, 2001, 40, L1065-L1067.	0.8	10
134	Nonpolara-plane ZnO films grown on GaN/sapphire templates with SiN_xinterlayer by pulsed laser deposition. Journal Physics D: Applied Physics, 2010, 43, 145102.	1.3	10
135	Silicon multi-branch nanostructures for decent field emission and excellent electrical transport. Nanotechnology, 2011, 22, 145705.	1.3	10
136	Bi2Se3/CdS/TiO2 hybrid photoelectrode and its band-edge levels. Journal of Alloys and Compounds, 2012, 545, 105-110.	2.8	9
137	Layer-by-layer deposition of CNTâ˜ and CNT+ hybrid films for platinum free counters electrodes of dye-sensitized-solar-cells. RSC Advances, 2015, 5, 95551-95557.	1.7	9
138	Three-dimensional nanocomposite formed by hydrophobic multiwalled carbon nanotubes threading titanium dioxide as the counter electrode of enhanced performance dye-sensitized solar cells. RSC Advances, 2016, 6, 55071-55078.	1.7	9
139	Facile, rapid and in-situ synthesis of ZnO nanoparticle films on Zn wires for fiber dye-sensitized solar cells. Materials Research Bulletin, 2015, 66, 244-248.	2.7	8
140	Formation of short three dimensional porous assemblies of super hydrophobic acetylene black intertwined by copper oxide nanorods for a robust counter electrode of DSSCs. RSC Advances, 2015, 5, 35635-35642.	1.7	8
141	In situinsight into thermally-induced reversible transitions of the crystal structure and photoluminescence properties in a Cu₂Te nanoplate. Journal of Materials Chemistry A, 2021, 9, 26095-26104.	5.2	8
142	Chemical vapor deposition of a PbSe/CdS/nitrogen-doped TiO2 nanorod array photoelectrode and its band-edge level structure. New Journal of Chemistry, 2012, 36, 2302.	1.4	7
143	Photonic band gaps in square photonic crystal slabs of coreâ€“shell-type dielectric nanorod heterostructures. Solid State Communications, 2013, 172, 10-14.	0.9	7
144	Polarity continuation and frustration in ZnSe nanospirals. Scientific Reports, 2014, 4, 7447.	1.6	7

#	Article	IF	Citations
145	Multicolour electroluminescence from light emitting diode based on ZnO:Cu/p-GaN heterojunction at positive and reverse bias voltage. RSC Advances, 2015, 5, 104386-104391.	1.7	7
146	UV-free red electroluminescence from the cross-connected p-ZnO:Cu nanobushes/n-GaN light emitting diode. Optics Express, 2016, 24, 3940.	1.7	7
147	Crystal structure, optical behavior and electrical conduction of the new organicâ€“inorganic compound CH3NH3CdI3. Journal of Materials Science: Materials in Electronics, 2018, 29, 9821-9828.	1.1	7
148	Evolution of the composition, structure, and piezoelectric performance of (K1-xNax)NbO3 nanorod arrays with hydrothermal reaction time. Applied Physics Letters, 2018, 112, .	1.5	7
149	Unveiling the Nucleation Dynamics and Growth Mechanism of Layered MoS₂ from Crystalline K₂MoS₄ by in Situ Transmission Electron Microscopy. Crystal Growth and Design, 2020, 20, 4069-4076.	1.4	7
150	Enhancement of ultraviolet detecting by coupling the photoconductive behavior of GaN nanowires and p-n junction. Optics Express, 2012, 20, 20748.	1.7	6
151	Crystal structure and electrical conduction of the new organic-inorganic compound (CH 2) 2 (NH 3) 2 CdI 4. Journal of Molecular Structure, 2018, 1156, 450-456.	1.8	6
152	Electron Holographic Study of Semiconductor Lightâ€Emitting Diodes. Small, 2018, 14, 1701996.	5.2	6
153	Study of the Polarization Effect in InAs Quantum Dots/GaAs Nanowires. Journal of Physical Chemistry C, 2019, 123, 4228-4234.	1.5	6
154	Yb/Er coordinatively doping in bilayer WSe2 for fascinating up-conversion luminescence. Nano Energy, 2020, 78, 105317.	8.2	6
155	Revealing the Phase-Transition Dynamics and Mechanism in a Spinel Li₄Ti₅O₁₂ Anode Material through in Situ Electron Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 20874-20881.	4.0	6
156	Linear regulation of electrical characteristics of InSe/Antimonene heterojunction via external electric field and strain. Surfaces and Interfaces, 2021, 23, 101014.	1.5	6
157	Tensible and flexible high-sensitive spandex fiber strain sensor enhanced by carbon nanotubes/Ag nanoparticles. Nanotechnology, 2021, 32, 505509.	1.3	6
158	Versatile Route to the Controlled Synthesis of Multilevel Branched Silicon Submicrometer/Nanostructures. Journal of Physical Chemistry C, 2010, 114, 134-138.	1.5	5
159	Oneâ€Dimensional ABX₃â€Type Fluorescent Crystal: CH₃NH₃ZnI₃. Crystal Research and Technology, 2018, 53, 1800017.	0.6	5
160	Study of Charge Distributions and Electrical Properties in GaAs/AlGaAs Single Quantum Well/Nanowire Heterostructures. Journal of Physical Chemistry C, 2019, 123, 26888-26894.	1.5	5
161	Facile synthesis of novel Zn5Mo2O11Â·5H2O nanoflowers with excellent rate capability in supercapacitors. Journal of Power Sources, 2022, 520, 230816.	4.0	5
162	Investigations on the Electrochemical and Mechanical Properties of Sb₂O₃ Nanobelts by In Situ Transmission Electron Microscopy. Small Methods, 2022, 6, e2101416.	4.6	5

#	Article	IF	Citations
163	Ga Filled Nanothermometers with High Sensitivity and Wide Measuring Range. Journal of Nanoscience and Nanotechnology, 2012, 12, 6397-6400.	0.9	4
164	Fe- and Fe3C-filled carbon nanotube-aligned arrays and flower-like carbon nanostructured clusters with a high coercivity. Micro and Nano Letters, 2012, 7, 271.	0.6	4
165	Bandgap-graded ZnO/(CdS)1â^'x (ZnS) x coaxial nanowire arrays for semiconductor-sensitized solar cells. Materials Research Express, 2014, 1, 015021.	0.8	4
166	Polarization-independent one-way transmission by silicon annular photonic crystal antireflection structures. Optics Communications, 2018, 420, 127-132.	1.0	4
167	Rich 1Tâ€MoS₂ Nanoflowers Decorated on Reduced Graphene Oxide Nanosheet for Ultraâ€Quick Zn²⁺ Storage. Batteries and Supercaps, 2022, 5, .	2.4	4
168	Study of structure-property relationship of semiconductor nanomaterials by off-axis electron holography. Journal of Semiconductors, 2022, 43, 041103.	2.0	4
169	Suppression of near-edge optical absorption band in sputter deposited hafnium oxynitride via nitrogen incorporation and annealing. Journal Physics D: Applied Physics, 2009, 42, 145302.	1.3	3
170	SnO₂ Nanoparticles: Grapheneâ€Skeleton Heatâ€Coordinated and Nanoamorphousâ€Surfaceâ€State Controlled Pseudoâ€Negativeâ€Photoconductivity of Tiny SnO₂ Nanoparticles (Adv. Mater. 23/2015). Advanced Materials, 2015, 27, 3579-3579.	11.1	3
171	Atomic scale study of the oxygen annealing effect on piezoelectricity enhancement of (K,Na)NbO₃ nanorods. Journal of Materials Chemistry C, 2020, 8, 15830-15838.	2.7	3
172	In Situ TEM Investigations on the Controlled Phase Transformation of Vertically Aligned WS₂ at Designated Locations on an Atomic Scale. Journal of Physical Chemistry C, 2021, 125, 2761-2769.	1.5	3
173	High extraction efficiency inGaN-based light-emitting diodes with air-hole photonic crystal slab. Modern Physics Letters B, 2014, 28, 1450173.	1.0	2
174	Study of nanometer-scale structures and electrostatic properties of InAs quantum dots decorating GaAs/AlAs core/shell nanowires. Nanotechnology, 2020, 31, 245701.	1.3	2
175	Atomic-scale analysis of cation ordering in reduced calcium titanate. Scientific Reports, 2017, 7, 14977.	1.6	1
176	In Situ TEM: Theory and Applications. Springer Tracts in Modern Physics, 2018, , 381-477.	0.1	1
177	Polarization-independent one-way transmission of silicon annular photonic crystal heterojunctions. AIP Advances, 2018, 8, 095011.	0.6	1
178	Subtle energy difference determining the delicately stable state of a solid object on a liquid medium with an arbitrary surface area. Nano Energy, 2019, 60, 231-234.	8.2	1
179	Thermal driving and electric driving of metal Ga/In in nanotubes aiming at NTMs and NEMs. , 2013, , .		0