

Ho Won Jang

List of Publications by Year in descending order

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519
papers

24,922
citations

5248

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541
all docs

541
docs citations

541
times ranked

25542
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunneling Electroresistance Effect in Ferroelectric Tunnel Junctions at the Nanoscale. <i>Nano Letters</i> , 2009, 9, 3539-3543.	4.5	536
2	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010, 9, 309-314.	13.3	407
3	Giant Piezoelectricity on Si for Hyperactive MEMS. <i>Science</i> , 2011, 334, 958-961.	6.0	394
4	One-Dimensional Oxide Nanostructures as Gas-Sensing Materials: Review and Issues. <i>Sensors</i> , 2010, 10, 4083-4099.	2.1	342
5	Carbon and graphene quantum dots: a review on syntheses, characterization, biological and sensing applications for neurotransmitter determination. <i>RSC Advances</i> , 2020, 10, 15406-15429.	1.7	315
6	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. <i>Progress in Organic Coatings</i> , 2019, 132, 235-256.	1.9	292
7	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016, 28, 6562-6567.	11.1	285
8	Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO ₃ Thin Films. <i>Advanced Materials</i> , 2009, 21, 817-823.	11.1	277
9	Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015, 9, 10453-10460.	7.3	277
10	Shape-controlled bismuth nanoflakes as highly selective catalysts for electrochemical carbon dioxide reduction to formate. <i>Nano Energy</i> , 2017, 39, 44-52.	8.2	265
11	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019, 11, 1933.	2.0	259
12	Ferroelectricity in Strain-Free SrTiO_3 Thin Films. <i>Physical Review Letters</i> , 2010, 104, 197601.	2.9	233
13	Ultrasensitive and sensitive detection of xylene and toluene for monitoring indoor air pollution using Cr-doped NiO hierarchical nanostructures. <i>Nanoscale</i> , 2013, 5, 7066.	2.8	225
14	Strain-Induced Polarization Rotation in Epitaxial (001) BiFeO_3 Thin Films. <i>Physical Review Letters</i> , 2008, 101, 107602.	2.9	221
15	Tailoring a two-dimensional electron gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ (001) interface by epitaxial strain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4720-4724.	3.3	218
16	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018, 2, 1700419.	4.6	213
17	Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. <i>Science</i> , 2011, 331, 886-889.	6.0	212
18	Spin injection/detection using an organic-based magnetic semiconductor. <i>Nature Materials</i> , 2010, 9, 638-642.	13.3	209

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19	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018, 30, e1704002.	11.1	205
20	Palladium Nanoparticles on Assorted Nanostructured Supports: Applications for Suzuki, Heck, and Sonogashira Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2020, 3, 2070-2103.	2.4	196
21	Template engineering of Co-doped BaFe ₂ As ₂ single-crystal thin films. <i>Nature Materials</i> , 2010, 9, 397-402.	13.3	185
22	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. <i>Carbon</i> , 2015, 91, 178-187.	5.4	183
23	Recent Advances in the Nanocatalyst-Assisted NaBH ₄ Reduction of Nitroaromatics in Water. <i>ACS Omega</i> , 2019, 4, 483-495.	1.6	180
24	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018, 28, 1705783.	7.8	177
25	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016, 9, 2240-2248.	15.6	174
26	Perspectives and challenges in multilayer ceramic capacitors for next generation electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9782-9802.	2.7	173
27	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2189-2209.	2.7	165
28	Weak-link behavior of grain boundaries in superconducting Ba(Fe _{1-x} Cox) ₂ As ₂ bicrystals. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	163
29	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018, 3, 1800457.	3.0	161
30	Conformally coated BiVO ₄ nanodots on porosity-controlled WO ₃ nanorods as highly efficient type II heterojunction photoanodes for water oxidation. <i>Nano Energy</i> , 2016, 28, 250-260.	8.2	158
31	Size-Dependent Properties of Two-Dimensional MoS ₂ and WS ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 10078-10085.	1.5	144
32	Magnetically retrievable nanocomposite adorned with Pd nanocatalysts: efficient reduction of nitroaromatics in aqueous media. <i>Green Chemistry</i> , 2018, 20, 3809-3817.	4.6	143
33	A New Water Oxidation Catalyst: Lithium Manganese Pyrophosphate with Tunable Mn Valency. <i>Journal of the American Chemical Society</i> , 2014, 136, 4201-4211.	6.6	136
34	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30764-30771.	4.0	135
35	Performance of metal-organic frameworks in the electrochemical sensing of environmental pollutants. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8195-8220.	5.2	135
36	Lead-Free All-Inorganic Cesium Tin Iodide Perovskite for Filamentary and Interface-Type Resistive Switching toward Environment-Friendly and Temperature-Tolerant Nonvolatile Memories. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8155-8163.	4.0	133

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37	Recent Advances in TiO ₂ -Based Photocatalysts for Reduction of CO ₂ to Fuels. <i>Nanomaterials</i> , 2020, 10, 337.	1.9	133
38	Ohmic contact formation mechanism of Ni on n-type 4H-β-SiC. <i>Applied Physics Letters</i> , 2001, 79, 1816-1818.	1.5	132
39	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5016-5024.	5.2	132
40	Recent Advances in Applications of Voltammetric Sensors Modified with Ferrocene and Its Derivatives. <i>ACS Omega</i> , 2020, 5, 2049-2059.	1.6	132
41	NH ₂ -MIL-125(Ti)/TiO ₂ nanorod heterojunction photoanodes for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 511-518.	10.8	131
42	Recent developments in conducting polymers: applications for electrochemistry. <i>RSC Advances</i> , 2020, 10, 37834-37856.	1.7	131
43	Recent Developments in Polymer Nanocomposite-Based Electrochemical Sensors for Detecting Environmental Pollutants. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1112-1136.	1.8	128
44	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 430-454.	5.2	125
45	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>Informa Mater</i> , 2019, 1, 289-316.	8.5	123
46	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO ₂ to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020, 402, 126184.	6.6	123
47	Room temperature humidity sensors based on rGO/MoS ₂ hybrid composites synthesized by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 775-782.	4.0	121
48	Recent progress in TiO ₂ -based photocatalysts for hydrogen evolution reaction: A review. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3653-3671.	2.3	120
49	Characterization of band bendings on Ga-face and N-face GaN films grown by metalorganic chemical-vapor deposition. <i>Applied Physics Letters</i> , 2002, 80, 3955-3957.	1.5	117
50	Mechanism for the increase of indium-tin-oxide work function by O ₂ inductively coupled plasma treatment. <i>Journal of Applied Physics</i> , 2004, 95, 586-590.	1.1	117
51	Recent Advances in Bismuth-Based Nanomaterials for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2017, 10, 3001-3018.	3.6	117
52	Covalent Organic Frameworks: Emerging Organic Solid Materials for Energy and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27821-27852.	4.0	116
53	Novel Architecture Titanium Carbide (Ti ₃ C ₂ T _x) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , 2020, 10, 602.	1.9	114
54	Wafer-scale reliable switching memory based on 2-dimensional layered organic-inorganic halide perovskite. <i>Nanoscale</i> , 2017, 9, 15278-15285.	2.8	113

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55	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 4213-4222.	7.8	112
56	Recent Electrochemical Applications of Metal-Organic Framework-Based Materials. <i>Crystal Growth and Design</i> , 2020, 20, 7034-7064.	1.4	112
57	Self-activated ultrahigh chemosensitivity of oxide thin film nanostructures for transparent sensors. <i>Scientific Reports</i> , 2012, 2, 588.	1.6	110
58	Reduced graphene oxide-based materials for electrochemical energy conversion reactions. , 2019, 1, 85-108.		108
59	Epitaxial (001) BiFeO ₃ membranes with substantially reduced fatigue and leakage. <i>Applied Physics Letters</i> , 2008, 92, 062910.	1.5	107
60	Giant magnetoresistance in ferromagnet/organic semiconductor/ferromagnet heterojunctions. <i>Physical Review B</i> , 2009, 80, .	1.1	103
61	p-n Heterojunction of Nickel Oxide-Decorated Cobalt Oxide Nanorods for Enhanced Sensitivity and Selectivity toward Volatile Organic Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1050-1058.	4.0	103
62	Transition Metal Disulfide Nanosheets Synthesized by Facile Sonication Method for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3929-3935.	1.5	101
63	Two-Dimensional NbS ₂ Gas Sensors for Selective and Reversible NO ₂ Detection at Room Temperature. <i>ACS Sensors</i> , 2019, 4, 2395-2402.	4.0	101
64	Ferroelectric field effect transistors: Progress and perspective. <i>APL Materials</i> , 2021, 9, .	2.2	101
65	A screen printed electrode modified with Fe ₃ O ₄ @polypyrrole-Pt core-shell nanoparticles for electrochemical detection of 6-mercaptopurine and 6-thioguanine. <i>Talanta</i> , 2021, 232, 122379.	2.9	101
66	Highly sensitive and selective H ₂ and NO ₂ gas sensors based on surface-decorated WO ₃ nanoglloos. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 294-301.	4.0	99
67	Substantially enhanced photoelectrochemical performance of TiO ₂ nanorods/CdS nanocrystals heterojunction photoanode decorated with MoS ₂ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118102.	10.8	99
68	High performance of screen-printed graphite electrode modified with Ni-Mo-MOF for voltammetric determination of amaranth. <i>Journal of Food Measurement and Characterization</i> , 2021, 15, 4617-4622.	1.6	99
69	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. <i>Journal of Power Sources</i> , 2016, 319, 1-8.	4.0	98
70	Hydrogen Evolution Reaction at Anion Vacancy of Two-Dimensional Transition-Metal Dichalcogenides: Ab Initio Computational Screening. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2049-2055.	2.1	98
71	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO ₂ reduction. <i>Molecular Catalysis</i> , 2020, 486, 110850.	1.0	97
72	Extremely Sensitive and Selective NO Probe Based on Villi-like WO ₃ Nanostructures for Application to Exhaled Breath Analyzers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10591-10596.	4.0	96

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73	Nanomaterials modified electrodes for electrochemical detection of Sudan I in food. <i>Journal of Food Measurement and Characterization</i> , 2021, 15, 3837-3852.	1.6	95
74	Synthesis of Atomically Thin Transition Metal Disulfides for Charge Transport Layers in Optoelectronic Devices. <i>ACS Nano</i> , 2015, 9, 4146-4155.	7.3	94
75	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018, 2, 1700310.	4.6	94
76	Copper oxide-graphene oxide nanocomposite: efficient catalyst for hydrogenation of nitroaromatics in water. <i>Nano Convergence</i> , 2019, 6, 6.	6.3	94
77	Developments and applications of nanomaterial-based carbon paste electrodes. <i>RSC Advances</i> , 2020, 10, 21561-21581.	1.7	94
78	Two-dimensional transition metal dichalcogenide nanomaterials for solar water splitting. <i>Electronic Materials Letters</i> , 2015, 11, 323-335.	1.0	93
79	Two-Dimensional Transition Metal Disulfides for Chemosensitive Gas Sensing: Perspective and Challenges. <i>Chemosensors</i> , 2017, 5, 15.	1.8	92
80	Performances of Liquid-Exfoliated Transition Metal Dichalcogenides as Hole Injection Layers in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2015, 25, 4512-4519.	7.8	91
81	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5226-5234.	2.7	90
82	Mechanism for ohmic contact formation of Ni-Ag contacts on p-type GaN. <i>Applied Physics Letters</i> , 2004, 85, 5920-5922.	1.5	89
83	Hydrothermally obtained type-II heterojunction nanostructures of In ₂ S ₃ / TiO ₂ for remarkably enhanced photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120276.	10.8	89
84	Domain-engineered BiFeO ₃ thin-film photoanodes for highly enhanced ferroelectric solar water splitting. <i>Nano Research</i> , 2018, 11, 642-655.	5.8	88
85	The use of UV/ozone-treated MoS ₂ nanosheets for extended air stability in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13123-13128.	1.3	86
86	Tailoring Crystallographic Orientations to Substantially Enhance Charge Separation Efficiency in Anisotropic BiVO ₄ Photoanodes. <i>ACS Catalysis</i> , 2018, 8, 5952-5962.	5.5	85
87	Tailored NiO/Ni Cocatalysts on Silicon for Highly Efficient Water Splitting Photoanodes via Pulsed Electrodeposition. <i>ACS Catalysis</i> , 2018, 8, 7261-7269.	5.5	85
88	Vertically Ordered Hematite Nanotube Array as an Ultrasensitive and Rapid Response Acetone Sensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14779-14784.	4.0	84
89	Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19116-19125.	5.2	83
90	Observation of inductively coupled-plasma-induced damage on n-type GaN using deep-level transient spectroscopy. <i>Applied Physics Letters</i> , 2003, 82, 1233-1235.	1.5	81

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91	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , 2020, 3, 3964-3990.	2.4	80
92	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016, 6, 194.	1.9	79
93	Synthesis of Numerous Edge Sites in MoS ₂ via SiO ₂ Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31594-31602.	4.0	79
94	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , 2019, 29, 1906686.	7.8	79
95	Phase-Transition Temperatures of Strained Single-Crystal SrRuO ₃ Thin Films. <i>Advanced Materials</i> , 2010, 22, 759-762.	11.1	78
96	Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2022, 12, 2003990.	10.2	78
97	Au-decorated WO ₃ cross-linked nanodomes for ultrahigh sensitive and selective sensing of NO ₂ and C ₂ H ₅ OH. <i>RSC Advances</i> , 2013, 3, 10452.	1.7	77
98	Trimodally porous SnO ₂ nanospheres with three-dimensional interconnectivity and size tunability: a one-pot synthetic route and potential application as an extremely sensitive ethanol detector. <i>NPG Asia Materials</i> , 2016, 8, e244-e244.	3.8	77
99	Stripe domain structure in epitaxial (001) BiFeO ₃ thin films on orthorhombic TbScO ₃ substrate. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	76
100	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6070-6076.	5.2	76
101	Mechanism for Ohmic contact formation of oxidized Ni/Au on p-type GaN. <i>Journal of Applied Physics</i> , 2003, 94, 1748-1752.	1.1	75
102	Chemical Sensors Based on Two-Dimensional (2D) Materials for Selective Detection of Ions and Molecules in Liquid. <i>Frontiers in Chemistry</i> , 2019, 7, 708.	1.8	75
103	Facile synthesis of monodispersed Pd nanocatalysts decorated on graphene oxide for reduction of nitroaromatics in aqueous solution. <i>Research on Chemical Intermediates</i> , 2019, 45, 599-611.	1.3	75
104	Substantially improved room temperature NO ₂ sensing in 2-dimensional SnS ₂ nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11168-11178.	5.2	75
105	A near single crystalline TiO ₂ nanohelix array: enhanced gas sensing performance and its application as a monolithically integrated electronic nose. <i>Analyst</i> , 2013, 138, 443-450.	1.7	73
106	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite Fe ₃ O ₄ /Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020, 5, 5182-5191.	1.6	73
107	Synergistic Catalysis of the Lattice Oxygen and Transition Metal Facilitating ORR and OER in Perovskite Catalysts for Li-O ₂ Batteries. <i>ACS Catalysis</i> , 2021, 11, 424-434.	5.5	72
108	Heterojunction Based on Rh-Decorated WO ₃ Nanorods for Morphological Change and Gas Sensor Application Using the Transition Effect. <i>Chemistry of Materials</i> , 2019, 31, 207-215.	3.2	71

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109	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 109. NPG Asia Materials, 2020, 12, .	3.8	71
110	Charge-transfer complexes for high-power organic rechargeable batteries. Energy Storage Materials, 2019, 20, 462-469.	9.5	70
111	Effect of microstructural change on magnetic property of Mn-implanted p-type GaN. Applied Physics Letters, 2003, 82, 583-585.	1.5	69
112	Drastically enhanced hydrogen evolution activity by 2D to 3D structural transition in anion-engineered molybdenum disulfide thin films for efficient Si-based water splitting photocathodes. Journal of Materials Chemistry A, 2017, 5, 15534-15542.	5.2	69
113	Polarized Light-Emitting Diodes Based on Patterned MoS ₂ Nanosheet Hole Transport Layer. Advanced Materials, 2017, 29, 1702598.	11.1	68
114	Investigation of Energy Levels and Crystal Structures of Cesium Lead Halides and Their Application in Full-Color Light-Emitting Diodes. Advanced Electronic Materials, 2017, 3, 1600448.	2.6	67
115	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 33835-33843.	4.0	67
116	Strong vortex pinning in Co-doped BaFe ₂ As ₂ single crystal thin films. Applied Physics Letters, 2010, 96, .	1.5	66
117	Superhydrophobic and antireflective nanograin-coated glass for high performance solar cells. Nano Research, 2014, 7, 670-678.	5.8	66
118	The role of metal dopants in WS ₂ nanoflowers in enhancing the hydrogen evolution reaction. Applied Catalysis A: General, 2018, 567, 73-79.	2.2	66
119	Halide perovskite photocatalysis: progress and perspectives. Journal of Chemical Technology and Biotechnology, 2020, 95, 2579-2596.	1.6	66
120	Highly sensitive CO sensors based on cross-linked TiO ₂ hollow hemispheres. Sensors and Actuators B: Chemical, 2010, 149, 116-121.	4.0	64
121	Chiroptical-Conjugated Polymer/Chiral Small Molecule Hybrid Thin Films for Circularly Polarized Light-Detecting Heterojunction Devices. Advanced Functional Materials, 2019, 29, 1808668.	7.8	64
122	SnS ₂ Nanograins on Porous SiO ₂ Nanorods Template for Highly Sensitive NO ₂ Sensor at Room Temperature with Excellent Recovery. ACS Sensors, 2019, 4, 678-686.	4.0	64
123	Fabrication of g-C ₃ N ₄ /Au nanocomposite using laser ablation and its application as an effective catalyst in the reduction of organic pollutants in water. Ceramics International, 2021, 47, 3565-3572.	2.3	64
124	Copper-Coated Polypropylene Filter Face Mask with SARS-CoV-2 Antiviral Ability. Polymers, 2021, 13, 1367.	2.0	64
125	Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials. Small Methods, 2019, 3, 1800492.	4.6	63
126	Colorimetric Sensors for Toxic and Hazardous Gas Detection: A Review. Electronic Materials Letters, 2021, 17, 1-17.	1.0	62

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127	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing. Nano-Micro Letters, 2022, 14, 58.	14.4	62
128	Study of defect-dipoles in an epitaxial ferroelectric thin film. Applied Physics Letters, 2010, 96, .	1.5	61
129	Enhanced Oxygen Evolution Electrocatalysis in Strained A-Site Cation Deficient LaNiO_3 Perovskite Thin Films. Nano Letters, 2020, 20, 8040-8045.	4.5	61
130	Biocompatibility and mechanical properties of pigeon bone waste extracted natural nano-hydroxyapatite for bone tissue engineering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114950.	1.7	61
131	Enhanced Optical Properties and Stability of CsPbBr_3 Nanocrystals Through Nickel Doping. Advanced Functional Materials, 2021, 31, 2102770.	7.8	59
132	Room-temperature Ohmic contact on n-type GaN with surface treatment using Cl_2 inductively coupled plasma. Applied Physics Letters, 2001, 78, 2015-2017.	1.5	58
133	Effect of Crystallization Modes in TIPS-pentacene/Insulating Polymer Blends on the Gas Sensing Properties of Organic Field-Effect Transistors. Scientific Reports, 2019, 9, 21.	1.6	58
134	Facile synthesis of WS_2 hollow spheres and their hydrogen evolution reaction performance. Applied Surface Science, 2020, 505, 144574.	3.1	58
135	Recent Advances in Rechargeable Aluminum-Ion Batteries and Considerations for Their Future Progress. ACS Applied Energy Materials, 2020, 3, 6019-6035.	2.5	58
136	MOF-Based Hybrids for Solar Fuel Production. Advanced Energy Materials, 2021, 11, 2003052.	10.2	58
137	Ferroelectricity in nonstoichiometric SrTiO_3 films studied by ultraviolet Raman spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	57
138	All-Solution-Processed $\text{WO}_3/\text{BiVO}_4$ Core-Shell Nanorod Arrays for Highly Stable Photoanodes. ACS Applied Materials & Interfaces, 2019, 11, 20004-20012.	4.0	57
139	Memristive Devices for New Computing Paradigms. Advanced Intelligent Systems, 2020, 2, 2000105.	3.3	57
140	Near-complete charge separation in tailored BiVO_4 -based heterostructure photoanodes toward artificial leaf. Applied Catalysis B: Environmental, 2021, 293, 120217.	10.8	57
141	Direct synthesis of two-dimensional MoS_2 on p-type Si and application to solar hydrogen production. NPG Asia Materials, 2019, 11, .	3.8	56
142	Recent developments in electrochemical sensors for detecting hydrazine with different modified electrodes. RSC Advances, 2020, 10, 30481-30498.	1.7	55
143	Tailored 2D/3D Halide Perovskite Heterointerface for Substantially Enhanced Endurance in Conducting Bridge Resistive Switching Memory. ACS Applied Materials & Interfaces, 2020, 12, 17039-17045.	4.0	55
144	Metallicity in LaTiO_3 films induced by lattice deformation. Physical Review B, 2010, 81, .	3.1	54

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145	+Iron hexacyanocobaltate metal-organic framework: Highly reversible and stationary electrode material with rich borders for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 791, 911-917.	2.8	54
146	Dominance of Plasmonic Resonant Energy Transfer over Direct Electron Transfer in Substantially Enhanced Water Oxidation Activity of BiVO ₄ by Shape-Controlled Au Nanoparticles. Small, 2017, 13, 1701644.	5.2	52
147	Recent advances in two-dimensional transition metal dichalcogenides as photoelectrocatalyst for hydrogen evolution reaction. Journal of Chemical Technology and Biotechnology, 2020, 95, 2597-2607.	1.6	52
148	Band gap engineering of graphene oxide for ultrasensitive NO ₂ gas sensing. Carbon, 2020, 159, 175-184.	5.4	52
149	Mechanism for Ohmic contact formation of Ti onn-type GaN investigated using synchrotron radiation photoemission spectroscopy. Journal of Applied Physics, 2002, 91, 9214-9217.	1.1	51
150	Competing memristors for brain-inspired computing. IScience, 2021, 24, 101889.	1.9	51
151	Visible-Light-Activated Type II Heterojunction in Cu ₃ (hexahydroxytriphenylene) ₂ /Fe ₂ O ₃ Hybrids for Reversible NO ₂ Sensing: Critical Role of $\tilde{\Gamma}$ Transition. ACS Central Science, 2021, 7, 1176-1182.	5.3	51
152	Polymer incorporated magnetic nanoparticles: Applications for magnetoresponse targeted drug delivery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115358.	1.7	51
153	Enhanced Photocatalytic Performance Depending on Morphology of Bismuth Vanadate Thin Film Synthesized by Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2017, 9, 505-512.	4.0	50
154	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. Advanced Electronic Materials, 2018, 4, 1800335.	2.6	50
155	Pd- and Au-Decorated MoS ₂ Gas Sensors for Enhanced Selectivity. Electronic Materials Letters, 2019, 15, 368-376.	1.0	50
156	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. Sensors, 2020, 20, 3364.	2.1	50
157	GaN metal-semiconductor-metal ultraviolet photodetector with IrO ₂ Schottky contact. Applied Physics Letters, 2002, 81, 4655-4657.	1.5	49
158	Gas sensing materials roadmap. Journal of Physics Condensed Matter, 2021, 33, 303001.	0.7	49
159	Morphology-Controlled Aluminum-Doped Zinc Oxide Nanofibers for Highly Sensitive NO ₂ Sensors with Full Recovery at Room Temperature. Advanced Science, 2018, 5, 1800816.	5.6	48
160	Two-dimensional materials and metal-organic frameworks for the CO ₂ reduction reaction. Materials Today Advances, 2020, 5, 100038.	2.5	48
161	Recent trends in development of hematite (α -Fe ₂ O ₃) as an efficient photoanode for enhancement of photoelectrochemical hydrogen production by solar water splitting. International Journal of Hydrogen Energy, 2021, 46, 23334-23357.	3.8	48
162	Metal-organic framework-derived MoS _x composites as efficient electrocatalysts for hydrogen evolution reaction. Journal of Alloys and Compounds, 2021, 852, 156952.	2.8	48

#	ARTICLE	IF	CITATIONS
163	Non-volatile Control of 2DEG Conductivity at Oxide Interfaces. <i>Advanced Materials</i> , 2013, 25, 4612-4617.	11.1	47
164	A wafer-scale antireflective protection layer of solution-processed TiO ₂ nanorods for high performance silicon-based water splitting photocathodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9477-9485.	5.2	47
165	Facile synthesis of W ₂ C@WS ₂ alloy nanoflowers and their hydrogen generation performance. <i>Applied Surface Science</i> , 2020, 504, 144389.	3.1	47
166	Surface-Modified Co-doped ZnO Photoanode for Photoelectrochemical Oxidation of Glycerol. <i>Catalysis Today</i> , 2021, 359, 43-49.	2.2	47
167	Low-resistance Ti/Al ohmic contact on undoped ZnO. <i>Journal of Electronic Materials</i> , 2002, 31, 868-871.	1.0	46
168	Au decoration of a graphene microchannel for self-activated chemoresistive flexible gas sensors with substantially enhanced response to hydrogen. <i>Nanoscale</i> , 2019, 11, 2966-2973.	2.8	46
169	Light-activated gas sensing: a perspective of integration with micro-LEDs and plasmonic nanoparticles. <i>Materials Advances</i> , 2021, 2, 827-844.	2.6	46
170	Halide Perovskites for Memristive Data Storage and Artificial Synapses. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8999-9010.	2.1	46
171	Nanoscale electrodeposition: Dimension control and 3D conformality. <i>Exploration</i> , 2021, 1, .	5.4	46
172	Mechanism of two-dimensional electron gas formation in Al _x Ga _{1-x} N/GaN heterostructures. <i>Applied Physics Letters</i> , 2002, 81, 1249-1251.	1.5	45
173	Role of Hyper-Reduced States in Hydrogen Evolution Reaction at Sulfur Vacancy in MoS ₂ . <i>ACS Catalysis</i> , 2018, 8, 4508-4515.	5.5	45
174	NO ₂ sensing properties of porous Au-incorporated tungsten oxide thin films prepared by solution process. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 512-520.	4.0	45
175	Lead-free all-inorganic halide perovskite quantum dots: review and outlook. <i>Journal of the Korean Ceramic Society</i> , 2020, 57, 455-479.	1.1	45
176	Effect of an indium-tin-oxide overlayer on transparent Ni/Au ohmic contact on p-type GaN. <i>Applied Physics Letters</i> , 2003, 82, 61-63.	1.5	44
177	Tunneling vs. giant magnetoresistance in organic spin valve. <i>Synthetic Metals</i> , 2010, 160, 216-222.	2.1	44
178	Two-dimensional boron nitride as a sulfur fixer for high performance rechargeable aluminum-sulfur batteries. <i>Scientific Reports</i> , 2019, 9, 13573.	1.6	44
179	Dendritic gold-supported iridium/iridium oxide ultra-low loading electrodes for high-performance proton exchange membrane water electrolyzer. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119596.	10.8	44
180	Crystal Facet Engineering of TiO ₂ Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO ₄ Nanodots. <i>Nano-Micro Letters</i> , 2022, 14, 48.	14.4	44

#	ARTICLE	IF	CITATIONS
181	Embossed TiO ₂ Thin Films with Tailored Links between Hollow Hemispheres: Synthesis and Gas-Sensing Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9993-9999.	1.5	42
182	Monolayer Co ₃ O ₄ Inverse Opals as Multifunctional Sensors for Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , 2016, 22, 7102-7107.	1.7	42
183	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. <i>Scientific Reports</i> , 2017, 7, 13258.	1.6	42
184	Template-engineered epitaxial BiVO ₄ photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18831-18838.	5.2	42
185	Nanogap-controlled Pd coating for hydrogen sensitive switches and hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1841-1848.	4.0	42
186	P-type conductivity in bulk Al _x Ga _{1-x} N and Al _x Ga _{1-x} N/Al _y Ga _{1-y} N superlattices with average Al mole fraction >20%. <i>Applied Physics Letters</i> , 2004, 84, 3310-3312.	1.5	41
187	Synergetically Selective Toluene Sensing in Hematite-Decorated Nickel Oxide Nanocorals. <i>Advanced Materials Technologies</i> , 2017, 2, 1600259.	3.0	41
188	Observation of physisorption in a high-performance FET-type oxygen gas sensor operating at room temperature. <i>Nanoscale</i> , 2018, 10, 18019-18027.	2.8	41
189	Nanomaterials for modulating innate immune cells in cancer immunotherapy. <i>Asian Journal of Pharmaceutical Sciences</i> , 2019, 14, 16-29.	4.3	41
190	Vertically ordered SnO ₂ nanobamboos for substantially improved detection of volatile reducing gases. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17939-17945.	5.2	40
191	Controlled Synthesis of Vertically Aligned SnO ₂ Nanograin-Structured Thin Films for SnO ₂ /BiVO ₄ Core-Shell Heterostructures with Highly Enhanced Photoelectrochemical Properties. <i>Chemistry of Materials</i> , 2018, 30, 8501-8509.	3.2	40
192	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021, 33, e2004827.	11.1	40
193	Vertically aligned two-dimensional halide perovskites for reliably operable artificial synapses. <i>Materials Today</i> , 2022, 52, 19-30.	8.3	40
194	Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	39
195	Gas Selectivity Control in Co ₃ O ₄ Sensor via Concurrent Tuning of Gas Reforming and Gas Filtering using Nanoscale Hetero-Overlayer of Catalytic Oxides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41397-41404.	4.0	39
196	Effects of Grain Boundary Density on the Gas Sensing Properties of Triethylsilylethynyl-Anthradithiophene Field-Effect Transistors. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701399.	1.9	39
197	Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanogloos: Synergistic Effect on High-Performance Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7529-7538.	4.0	39
198	Gas sensing characteristics of the FET-type gas sensor having inkjet-printed WS ₂ sensing layer. <i>Solid-State Electronics</i> , 2019, 153, 27-32.	0.8	39

#	ARTICLE	IF	CITATIONS
199	Thermally stable Ir Schottky contact on AlGaN/GaN heterostructure. <i>Applied Physics Letters</i> , 2003, 82, 391-393.	1.5	37
200	One-pot synthesis of sulfur and nitrogen codoped titanium dioxide nanorod arrays for superior photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 213-222.	10.8	37
201	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900435.	1.2	37
202	Low-resistance and thermally stable ohmic contact on p-type GaN using Pd/Ni metallization. <i>Applied Physics Letters</i> , 2001, 79, 1822-1824.	1.5	36
203	Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700142.	2.7	36
204	MoSe ₂ -GO/rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , 2018, 10, 1309.	2.0	36
205	Fabrication of a WS ₂ /p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29910-29916.	4.0	36
206	A New Architecture for Fibrous Organic Transistors Based on a Double-Stranded Assembly of Electrode Microfibers for Electronic Textile Applications. <i>Advanced Materials</i> , 2019, 31, e1900564.	11.1	36
207	Direct-printed nanoscale metal-oxide-wire electronics. <i>Nano Energy</i> , 2019, 58, 437-446.	8.2	36
208	Hierarchical molybdenum disulfide on carbon nanotube-reduced graphene oxide composite paper as efficient catalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153897.	2.8	36
209	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts. <i>Small</i> , 2022, 18, e2105611.	5.2	36
210	Au decoration of vertical hematite nanotube arrays for further selective detection of acetone in exhaled breath. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 587-594.	4.0	35
211	Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts. , 2020, 2, 107-126.		35
212	Electrochemical Detection of Hydrazine by Carbon Paste Electrode Modified with Ferrocene Derivatives, Ionic Liquid, and CoS ₂ -Carbon Nanotube Nanocomposite. <i>ACS Omega</i> , 2021, 6, 4641-4648.	1.6	35
213	Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning. <i>Advanced Materials</i> , 2021, 33, e2100475.	11.1	35
214	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO ₂ Nanorods Decorated by Edge-Rich MoS ₂ Nanoplates. <i>Small</i> , 2021, 17, e2103457.	5.2	35
215	Solution-Processed Metal Oxide Thin Film Nanostructures for Water Splitting Photoelectrodes: A Review. <i>Journal of the Korean Ceramic Society</i> , 2018, 55, 185-202.	1.1	35
216	Controlled Band Offsets in Ultrathin Hematite for Enhancing the Photoelectrochemical Water Splitting Performance of Heterostructured Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7788-7795.	4.0	35

#	ARTICLE	IF	CITATIONS
217	Intense pulsed light for split-second structural development of nanomaterials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7142-7160.	2.7	34
218	Plasmonic gold nanoparticle-decorated BiVO ₄ /ZnO nanowire heterostructure photoanodes for efficient water oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 3759-3766.	2.1	34
219	Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation. <i>Small</i> , 2019, 15, e1902065.	5.2	34
220	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5035.	1.3	34
221	Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 420-429.	5.5	34
222	Hydrothermally exfoliated P-doped g-C ₃ N ₄ decorated with gold nanorods for highly efficient reduction of 4-nitrophenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126187.	2.3	34
223	Low-resistant and high-transparent Ru/Ni ohmic contact on p-type GaN. <i>Applied Physics Letters</i> , 2002, 80, 2937-2939.	1.5	33
224	Incorporation of Oxygen Donors in AlGaIn. <i>Journal of the Electrochemical Society</i> , 2004, 151, G536.	1.3	33
225	Properties of CoS ₂ /CNT as a Cathode Material of Rechargeable Aluminum-Ion Batteries. <i>Electronic Materials Letters</i> , 2019, 15, 727-732.	1.0	33
226	Conducting Bridge Resistive Switching Behaviors in Cubic MAPbI ₃ , Orthorhombic RbPbI ₃ , and Their Mixtures. <i>Advanced Electronic Materials</i> , 2019, 5, 1800586.	2.6	33
227	Recent development of high-performance photocatalysts for N ₂ fixation: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104997.	3.3	33
228	Transparent Ohmic contacts of oxidized Ru and Ir on p-type GaN. <i>Journal of Applied Physics</i> , 2003, 93, 5416-5421.	1.1	32
229	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decorated-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017, 29, 1605929.	11.1	32
230	Layered metal-organic framework based on tetracyanonickelate as a cathode material for <i>in situ</i> Li-ion storage. <i>RSC Advances</i> , 2019, 9, 21363-21370.	1.7	32
231	Synthesis of MoS _x /Ni-metal-organic framework ₇₄ composites as efficient electrocatalysts for hydrogen evolution reactions. <i>International Journal of Energy Research</i> , 2021, 45, 9638-9647.	2.2	32
232	Metal-free nanostructured catalysts: sustainable driving forces for organic transformations. <i>Green Chemistry</i> , 2021, 23, 6223-6272.	4.6	32
233	Recent developments in voltammetric and amperometric sensors for cysteine detection. <i>RSC Advances</i> , 2021, 11, 5411-5425.	1.7	32
234	Interface structure and strain relaxation in BaTiO ₃ thin films grown on GdScO ₃ and DyScO ₃ substrates with buried coherent SrRuO ₃ layer. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	31

#	ARTICLE	IF	CITATIONS
235	A route to high sensitivity and rapid response Nb ₂ O ₅ -based gas sensors: TiO ₂ doping, surface embossing, and voltage optimization. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 37-43.	4.0	31
236	Surface extension of MeS ₂ (Me=Mo or W) nanosheets by embedding MeS _x for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 292, 136-141.	2.6	31
237	Enhanced visible photocatalytic degradation of diclofenac over N-doped TiO ₂ assisted with H ₂ O ₂ : A kinetic and pathway study. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8361-8371.	2.3	31
238	Utilization of both-side metal decoration in close-packed SnO ₂ nanodome arrays for ultrasensitive gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 314-321.	4.0	30
239	Substantially enhanced front illumination photocurrent in porous SnO ₂ /networked BiVO ₄ heterojunction photoanodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14633-14643.	5.2	30
240	Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts. <i>Advanced Science</i> , 2018, 5, 1800727.	5.6	30
241	Recent Advances in the Aptamer-Based Electrochemical Biosensors for Detecting Aflatoxin B ₁ and Its Pertinent Metabolite Aflatoxin M ₁ . <i>Sensors</i> , 2020, 20, 3256.	2.1	30
242	Edge-exposed WS ₂ on 1D nanostructures for highly selective NO ₂ sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129566.	4.0	30
243	Epitaxial Growth of Alpha Gallium Oxide Thin Films on Sapphire Substrates for Electronic and Optoelectronic Devices: Progress and Perspective. <i>Electronic Materials Letters</i> , 2022, 18, 113-128.	1.0	30
244	Anion exchange membrane water electrolysis for sustainable large-scale hydrogen production. , 2022, 1, 26-48.		30
245	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017, 7, 272-279.	0.8	29
246	Bottom-Up Synthesis of MeS _x Nanodots for Optoelectronic Device Applications. <i>Advanced Optical Materials</i> , 2016, 4, 1796-1804.	3.6	28
247	Correlation analysis between Korean spring drought and large-scale teleconnection patterns for drought forecasting. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 458-466.	0.9	28
248	Realization of Lithium-Ion Capacitors with Enhanced Energy Density via the Use of Gadolinium Hexacyanocobaltate as a Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31799-31805.	4.0	28
249	Coordinating gallium hexacyanocobaltate: Prussian blue-based nanomaterial for Li-ion storage. <i>RSC Advances</i> , 2019, 9, 26668-26675.	1.7	28
250	Metal-organic framework-derived metal oxide nanoparticles@reduced graphene oxide composites as cathode materials for rechargeable aluminium-ion batteries. <i>Scientific Reports</i> , 2019, 9, 13739.	1.6	28
251	A Hybrid Energy Storage Mechanism of Zinc Hexacyanocobaltate-Based Metal-Organic Framework Endowing Stationary and High-Performance Lithium-Ion Storage. <i>Electronic Materials Letters</i> , 2019, 15, 444-453.	1.0	28
252	Optically Activated 3D Thin-Shell TiO ₂ for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. <i>Advanced Science</i> , 2021, 8, 2001883.	5.6	28

#	ARTICLE	IF	CITATIONS
253	Catalyze Materials Science with Machine Learning. , 2021, 3, 1151-1171.		28
254	Ambient Stable All Inorganic CsCu ₂ I ₃ Artificial Synapses for Neurocomputing. Nano Letters, 2022, 22, 6010-6017.	4.5	28
255	Multifunctional nano-heterogeneous Ni(OH) ₂ /NiFe catalysts on silicon photoanode toward efficient water and urea oxidation. Applied Catalysis B: Environmental, 2022, 317, 121765.	10.8	28
256	Effects of KrF excimer laser irradiation on metal contacts to n-type and p-type GaN. Journal of Applied Physics, 2003, 94, 3529-3535.	1.1	27
257	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. Small, 2020, 16, e2003225.	5.2	27
258	Enhancing photoelectrochemical water splitting with plasmonic Au nanoparticles. Nanoscale Advances, 2021, 3, 5981-6006.	2.2	27
259	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. Exploration, 2021, 1, 9-20.	5.4	27
260	MOF-derived NiFe ₂ O ₄ nanoparticles on molybdenum disulfide: Magnetically reusable nanocatalyst for the reduction of nitroaromatics in aqueous media. Journal of Industrial and Engineering Chemistry, 2022, 107, 428-435.	2.9	27
261	Low-resistance and high-reflectance Ni-Ag-Ru-Au ohmic contact on p-type GaN. Applied Physics Letters, 2004, 85, 4421.	1.5	26
262	Transparent conducting oxide electrodes for novel metal oxide gas sensors. Sensors and Actuators B: Chemical, 2011, 160, 357-363.	4.0	26
263	Comprehensive Study on the Morphology Control of TiO ₂ Nanorods on Foreign Substrates by the Hydrothermal Method. Crystal Growth and Design, 2018, 18, 6504-6512.	1.4	26
264	Transfer of ultrathin molybdenum disulfide and transparent nanomesh electrode onto silicon for efficient heterojunction solar cells. Nano Energy, 2018, 50, 649-658.	8.2	26
265	Pd modified prussian blue frameworks: Multiple electron transfer pathways for improving catalytic activity toward hydrogenation of nitroaromatics. Molecular Catalysis, 2020, 492, 110967.	1.0	26
266	Vertically aligned MoS ₂ thin film catalysts with Fe-Ni sulfide nanoparticles by one-step sulfurization for efficient solar water reduction. Chemical Engineering Journal, 2021, 418, 129369.	6.6	26
267	Stable and multicolored electrochromic device based on polyaniline-tungsten oxide hybrid thin film. Journal of Alloys and Compounds, 2021, 882, 160718.	2.8	26
268	Artificial Adaptive and Maladaptive Sensory Receptors Based on a Surface-Dominated Diffusive Memristor. Advanced Science, 2022, 9, e2103484.	5.6	26
269	A novel TiC-based composite co-strengthened with AlN particulates and graphene nano-platelets. International Journal of Refractory Metals and Hard Materials, 2020, 92, 105331.	1.7	25
270	Recent progress of two-dimensional materials and metal-organic framework-based taste sensors. Journal of the Korean Ceramic Society, 2020, 57, 353-367.	1.1	25

#	ARTICLE	IF	CITATIONS
271	Comparison of fractal dimensions from nitrogen adsorption data in shale <i>via</i> different models. RSC Advances, 2021, 11, 2298-2306.	1.7	25
272	Chemical modification of ordered/disordered carbon nanostructures for metal hosts and electrocatalysts of ^{Li} batteries. Informa Mater, 2022, 4, .	8.5	25
273	Control of the electrical and adhesion properties of metal/organic interfaces with self-assembled monolayers. Applied Physics Letters, 2005, 86, 171906.	1.5	24
274	Nanoscale rectification at the LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2010, 97, 013102.	1.5	24
275	Highly Ordered TiO ₂ Nanotubes on Patterned Substrates: Synthesis-in-Place for Ultrasensitive Chemiresistors. Journal of Physical Chemistry C, 2013, 117, 17824-17831.	1.5	24
276	Tailoring catalytic activities of transition metal disulfides for water splitting. FlatChem, 2017, 4, 68-80.	2.8	24
277	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. Molecular Catalysis, 2021, 514, 111835.	1.0	24
278	Effect of Cl ₂ Plasma Treatment on Metal Contacts to n-Type and p-Type GaN. Journal of the Electrochemical Society, 2003, 150, G513.	1.3	23
279	Compositional and Interfacial Modification of Cu ₂ ZnSn(S,Se) ₄ Thin-Film Solar Cells Prepared by Electrochemical Deposition. ChemSusChem, 2016, 9, 439-444.	3.6	23
280	Facile synthesis of CsPbBr ₃ /PbSe composite clusters. Science and Technology of Advanced Materials, 2018, 19, 10-17.	2.8	23
281	S@GO as a High-Performance Cathode Material for Rechargeable Aluminum-Ion Batteries. Electronic Materials Letters, 2019, 15, 720-726.	1.0	23
282	Graphite carbon-encapsulated metal nanoparticles derived from Prussian blue analogs growing on natural loofa as cathode materials for rechargeable aluminum-ion batteries. Scientific Reports, 2019, 9, 13665.	1.6	23
283	Cerium Hexacyanocobaltate: A Lanthanide-Compliant Prussian Blue Analogue for Li-Ion Storage. ACS Omega, 2019, 4, 21410-21416.	1.6	23
284	Photoelectrochemical hydrogen production at neutral pH phosphate buffer solution using TiO ₂ passivated InAs Nanowire/p-Si heterostructure photocathode. Chemical Engineering Journal, 2020, 392, 123688.	6.6	23
285	A Screen-Printed Electrode Modified With Graphene/Co ₃ O ₄ Nanocomposite for Electrochemical Detection of Tramadol. Frontiers in Chemistry, 2020, 8, 562308.	1.8	23
286	Electrodeposited Heterogeneous Nickel-Based Catalysts on Silicon for Efficient Sunlight-Assisted Water Splitting. Cell Reports Physical Science, 2020, 1, 100219.	2.8	23
287	All-Solution-Processed BiVO ₄ /TiO ₂ Photoanode with NiCo ₂ O ₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 5646-5656.	2.5	23
288	Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. ACS Applied Materials & Interfaces, 2016, 8, 23793-23800.	4.0	22

#	ARTICLE	IF	CITATIONS
289	Tailoring of Interfacial Band Offsets by an Atomically Thin Polar Insulating Layer To Enhance the Water-Splitting Performance of Oxide Heterojunction Photoanodes. <i>Nano Letters</i> , 2019, 19, 5897-5903.	4.5	22
290	Microstructural, mechanical and friction properties of nano-graphite and h-BN added TiC-based composites. <i>Ceramics International</i> , 2020, 46, 28969-28979.	2.3	22
291	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts. <i>Small Methods</i> , 2021, 5, 2000755.	4.6	22
292	Hierarchical Nanoporous BiVO ₄ Photoanodes with High Charge Separation and Transport Efficiency for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14291-14301.	4.0	22
293	3D Bioprinted Bacteriostatic Hyperelastic Bone Scaffold for Damage-Specific Bone Regeneration. <i>Polymers</i> , 2021, 13, 1099.	2.0	22
294	Recent progress and challenges in photocatalytic water splitting using layered double hydroxides (LDH) based nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37438-37475.	3.8	22
295	Magnetic nanocomposite of crosslinked chitosan with 4,6-diacetylresorcinol for gold immobilization (Fe ₃ O ₄ @CS/DAR-Au) as a catalyst for an efficient one-pot synthesis of propargylamine. <i>Materials Today Communications</i> , 2021, 29, 102798.	0.9	22
296	Formation of High-Quality Ag-Based Ohmic Contacts to p-Type GaN. <i>Journal of the Electrochemical Society</i> , 2008, 155, H563.	1.3	21
297	The role of reflective p-contacts in the enhancement of light extraction in nanotextured vertical InGaN light-emitting diodes. <i>Nanotechnology</i> , 2010, 21, 025203.	1.3	21
298	CO gas sensing properties of direct-patternable TiO ₂ thin films containing multi-wall carbon nanotubes. <i>Thin Solid Films</i> , 2013, 529, 89-93.	0.8	21
299	Highly photoresponsive and wavelength-selective circularly-polarized-light detector based on metal-oxides hetero-chiral thin film. <i>Scientific Reports</i> , 2016, 6, 19580.	1.6	21
300	Understanding hydroscopic properties of silk fibroin and its use as a gate-dielectric in organic field-effect transistors. <i>Organic Electronics</i> , 2018, 59, 213-219.	1.4	21
301	Tailorable Topologies for Selectively Controlling Crystals of Expanded Prussian Blue Analogues. <i>Crystal Growth and Design</i> , 2019, 19, 7385-7395.	1.4	21
302	SnO ₂ @WS ₂ /p-Si Heterostructure Photocathode for Photoelectrochemical Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2020, 124, 647-652.	1.5	21
303	Insight into the Self-Insertion of a Protein Inside the Boron Nitride Nanotube. <i>ACS Omega</i> , 2020, 5, 32051-32058.	1.6	21
304	Regulating the Catalytic Dynamics Through a Crystal Structure Modulation of Bimetallic Catalyst. <i>Advanced Energy Materials</i> , 2020, 10, 1903225.	10.2	21
305	Boron nitride-palladium nanostructured catalyst: efficient reduction of nitrobenzene derivatives in water. <i>Nano Express</i> , 2020, 1, 030012.	1.2	21
306	Fast responding and highly reversible gasochromic H ₂ sensor using Pd-decorated amorphous WO ₃ thin films. <i>Chemical Engineering Journal</i> , 2022, 446, 136862.	6.6	21

#	ARTICLE	IF	CITATIONS
307	Electrical properties of metal contacts on laser-irradiated n-type GaN. <i>Applied Physics Letters</i> , 2003, 82, 580-582.	1.5	20
308	Current conduction mechanism of Pt/GaN and Pt/Al _{0.35} Ga _{0.65} N Schottky diodes. <i>Journal of Applied Physics</i> , 2003, 94, 7201-7205.	1.1	20
309	Effect of porosity on the Seebeck coefficient of mesoporous TiO ₂ thin films. <i>Thin Solid Films</i> , 2010, 518, 7196-7198.	0.8	20
310	Room-temperature Solid-state Grown WO ₃ Film on Plastic Substrate for Extremely Sensitive Flexible NO ₂ Gas Sensors. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700811.	1.9	20
311	1D versus 2D Growth of Soluble Acene Crystals from Soluble Acene/Polymer Blends Governed by a Residual Solvent Reservoir in a Phase-separated Polymer Matrix. <i>Advanced Functional Materials</i> , 2018, 28, 1802875.	7.8	20
312	Nonequilibrium Deposition in Epitaxial BiVO ₄ Thin Film Photoanodes for Improving Solar Water Oxidation Performance. <i>Chemistry of Materials</i> , 2018, 30, 5673-5681.	3.2	20
313	Daylight-Induced Metal-Insulator Transition in Ag-Decorated Vanadium Dioxide Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11568-11578.	4.0	20
314	Synthesis and characterization of bipyridine cobalt complex modified graphite screen printed electrode: an electrochemical sensor for simultaneous detection of acetaminophen and naproxen. <i>RSC Advances</i> , 2021, 11, 3049-3057.	1.7	20
315	Direct Synthesis of Molybdenum Phosphide Nanorods on Silicon Using Graphene at the Heterointerface for Efficient Photoelectrochemical Water Reduction. <i>Nano-Micro Letters</i> , 2021, 13, 81.	14.4	20
316	Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS ₂ film and SiO ₂ growth template. <i>Nano Convergence</i> , 2021, 8, 11.	6.3	20
317	Toward Multicomponent Single-Atom Catalysis for Efficient Electrochemical Energy Conversion. <i>ACS Materials Au</i> , 2022, 2, 1-20.	2.6	20
318	Highly reflective low resistance Ag-based Ohmic contacts on p-type GaN using Mg overlayer. <i>Applied Physics Letters</i> , 2007, 90, 012106.	1.5	19
319	Influence of growth temperature on the vortex pinning properties of pulsed laser deposited YBa ₂ Cu ₃ O _{7-x} thin films. <i>Journal of Applied Physics</i> , 2008, 103, 043913.	1.1	19
320	Plasmonic Octahedral Gold Nanoparticles of Maximized Near Electromagnetic Fields for Enhancing Catalytic Hole Transfer in Solar Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600340.	1.2	19
321	Novel Pt-Ag ₃ PO ₄ /CdS/Chitosan Nanocomposite with Enhanced Photocatalytic and Biological Activities. <i>Nanomaterials</i> , 2020, 10, 2320.	1.9	19
322	A novel spark plasma sintered Ti-C-Zr-N-C composite with enhanced flexural strength. <i>Ceramics International</i> , 2020, 46, 29022-29032.	2.3	19
323	Electrical bistability and spin valve effect in a ferromagnet/organic semiconductor/ferromagnet heterojunction. <i>Organic Electronics</i> , 2010, 11, 1149-1153.	1.4	18
324	A thorough study on electrochromic properties of metal doped tungsten trioxide film prepared by a facile solution process. <i>Electrochimica Acta</i> , 2018, 283, 1195-1202.	2.6	18

#	ARTICLE	IF	CITATIONS
325	In Situ Growth of Nanostructured BiVO ₄ –Bi ₂ O ₃ Mixed-Phase via Nonequilibrium Deposition Involving Metal Exsolution for Enhanced Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 44069-44076.	4.0	18
326	Boosting the photocatalytic hydrogen evolution performance via an atomically thin 2D heterojunction visualized by scanning photoelectrochemical microscopy. Nano Energy, 2019, 65, 104053.	8.2	18
327	Gd ₂ O ₃ :Pr ³⁺ nanospheres as bi-functional contrast agents for optical and magnetic resonance imaging properties. Ceramics International, 2019, 45, 5958-5964.	2.3	18
328	Manufacturing ZrB ₂ –SiC–TaC Composite: Potential Application for Aircraft Wing Assessed by Frequency Analysis through Finite Element Model. Materials, 2020, 13, 2213.	1.3	18
329	Strategy for controlling the morphology and work function of W ₂ C/WS ₂ nanoflowers. Journal of Alloys and Compounds, 2020, 829, 154582.	2.8	18
330	Influence of C ₃ N ₄ Precursors on Photoelectrochemical Behavior of TiO ₂ /C ₃ N ₄ Photoanode for Solar Water Oxidation. Energies, 2020, 13, 974.	1.6	18
331	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H ₂ and O ₂ . Catalysts, 2020, 10, 442.	1.6	18
332	Enhanced Spin Seebeck Thermopower in Pt/Holey MoS ₂ /Y ₃ Fe ₅ O ₁₂ Hybrid Structure. Nano Letters, 2021, 21, 189-196.	4.5	18
333	A simple and sensitive approach for the electrochemical determination of amaranth by a Pd/GO nanomaterial-modified screen-printed electrode. RSC Advances, 2021, 11, 278-287.	1.7	18
334	Hydrothermal self - sacrificing growth of polymorphous MnO ₂ on magnetic porous - carbon (Fe ₃ O ₄ @Cg/MnO ₂): A sustainable nanostructured catalyst for activation of molecular oxygen. Molecular Catalysis, 2021, 509, 111603.	1.0	18
335	Core–shell architecture of NiSe nanoparticles@nitrogen-doped carbon for hydrogen evolution reaction in acidic and alkaline media. International Journal of Energy Research, 2021, 45, 20463-20473.	2.2	18
336	Rationally Designed TiO ₂ Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor. Small Methods, 2021, 5, e2100941.	4.6	18
337	Bi catalysts supported on GaN nanowires toward efficient photoelectrochemical CO ₂ reduction. Journal of Materials Chemistry A, 2022, 10, 7869-7877.	5.2	18
338	Metal organic framework-based nanostructure materials: applications for non-lithium ion battery electrodes. CrystEngComm, 2022, 24, 2925-2947.	1.3	18
339	Polarization-induced surface band bendings of GaN films studied by synchrotron radiation photoemission spectroscopy. Physica Status Solidi (B): Basic Research, 2003, 240, 451-454.	0.7	17
340	Origin of the abnormal behavior of contact resistance in Ohmic contacts to laser-irradiated n-type GaN. Applied Physics Letters, 2009, 94, .	1.5	17
341	Indium as an efficient ohmic contact to N-face n-GaN of GaN-based vertical light-emitting diodes. Applied Physics Letters, 2011, 99, 202106.	1.5	17
342	Thermoelectric Properties of Indium-Selenium Nanocomposites Prepared by Mechanical Alloying and Spark Plasma Sintering. Journal of Electronic Materials, 2012, 41, 1354-1359.	1.0	17

#	ARTICLE	IF	CITATIONS
343	Study on the thermal stability of ordered mesoporous SiO ₂ film for thermal insulating film. Microporous and Mesoporous Materials, 2012, 158, 123-128.	2.2	17
344	Triple Planar Heterojunction of SnO ₂ /WO ₃ /BiVO ₄ with Enhanced Photoelectrochemical Performance under Front Illumination. Applied Sciences (Switzerland), 2018, 8, 1765.	1.3	17
345	Understanding the Enhancement of the Catalytic Properties of Goethite by Transition Metal Doping: Critical Role of O* Formation Energy Relative to OH* and OOH*. ACS Applied Energy Materials, 2020, 3, 1634-1643.	2.5	17
346	Stabilization of NiFe Layered Double Hydroxides on n-Si by an Activated TiO ₂ Interlayer for Efficient Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 12298-12307.	2.5	17
347	Fabrication of magnetic iron oxide-supported copper oxide nanoparticles (Fe ₃ O ₄ /CuO): modified screen-printed electrode for electrochemical studies and detection of desipramine. RSC Advances, 2020, 10, 15171-15178.	1.7	17
348	Crystal Facet-Controlled Efficient SnS Photocathodes for High Performance Bias-Free Solar Water Splitting. Advanced Science, 2021, 8, e2102458.	5.6	17
349	Electron strain-driven phase transformation in transition-metal-co doped MoTe ₂ for electrocatalytic hydrogen evolution. Chemical Engineering Journal, 2022, 433, 133768.	6.6	17
350	Elastic resistance change and action potential generation of non-faradaic Pt/TiO ₂ /Pt capacitors. Nanoscale, 2013, 5, 6363.	2.8	16
351	Domain engineering in BiFeO ₃ thin films. Current Applied Physics, 2017, 17, 688-703.	1.1	16
352	Low Temperature Solution-Processable Cesium Lead Bromide Microcrystals for Light Conversion. Crystal Growth and Design, 2018, 18, 3161-3166.	1.4	16
353	Tungsten Trioxide Doped with CdSe Quantum Dots for Smart Windows. ACS Applied Materials & Interfaces, 2018, 10, 43785-43791.	4.0	16
354	Atomic Layer Deposition Seeded Growth of Rutile SnO ₂ Nanowires on Versatile Conducting Substrates. ACS Applied Materials & Interfaces, 2020, 12, 48486-48494.	4.0	16
355	Electrochemical activity of Samarium on starch-derived porous carbon: rechargeable Li- and Al-ion batteries. Nano Convergence, 2020, 7, 11.	6.3	16
356	BN-Fe ₃ O ₄ -Pd nanocomposite modified carbon paste electrode: Efficient voltammetric sensor for sulfamethoxazole. Ceramics International, 2021, 47, 13903-13911.	2.3	16
357	Crucial role of heterostructures in highly advanced water splitting photoelectrodes. Current Opinion in Green and Sustainable Chemistry, 2021, 29, 100454.	3.2	16
358	Hydroxyapatite Consolidated by Zirconia: Applications for Dental Implant. Journal of Composites and Compounds, 2019, 2, 26-34.	0.4	16
359	Room Temperature Deposition of Crystalline Nanoporous ZnO Nanostructures for Direct Use as Flexible DSSC Photoanode. Nanoscale Research Letters, 2016, 11, 221.	3.1	15
360	Direct Observation of Surface Potential Distribution in Insulation Resistance Degraded Acceptor-Doped BaTiO ₃ Multilayered Ceramic Capacitors. Electronic Materials Letters, 2018, 14, 629-635.	1.0	15

#	ARTICLE	IF	CITATIONS
361	Influence of MoS ₂ Nanosheet Size on Performance of Drilling Mud. <i>Polymers</i> , 2019, 11, 321.	2.0	15
362	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 458, 228067.	4.0	15
363	Direct electrochemical detection of clozapine by RuO ₂ nanoparticles-modified screen-printed electrode. <i>RSC Advances</i> , 2020, 10, 13021-13028.	1.7	15
364	Electrochemical conversion of carbon dioxide over silver-based catalysts: Recent progress in cathode structure and interface engineering. <i>Chemical Engineering Science</i> , 2021, 234, 116403.	1.9	15
365	Reactive metal contact at indium-tin oxide/self-assembled monolayer interfaces. <i>Applied Physics Letters</i> , 2006, 88, 102104.	1.5	14
366	Magnetic Color Symmetry of Lattice Rotations in a Diamagnetic Material. <i>Physical Review Letters</i> , 2008, 100, 257601.	2.9	14
367	Size Effects in the CO Sensing Properties of Nanostructured TiO ₂ Thin Films Fabricated by Colloidal Templating. <i>Electronic Materials Letters</i> , 2010, 6, 31-34.	1.0	14
368	Mechanism of the Sensitivity Enhancement in TiO ₂ Hollow-Hemisphere Gas Sensors. <i>Electronic Materials Letters</i> , 2010, 6, 135-139.	1.0	14
369	Tunable conductivity at LaAlO ₃ /SrxCa1-xTiO ₃ (0 ≤ x ≤ 1) heterointerfaces. <i>Applied Physics Letters</i> , 2013, 102, 012903.	1.5	14
370	Enhanced nucleation of germanium on graphene via dipole engineering. <i>Nanoscale</i> , 2018, 10, 5689-5694.	2.8	14
371	CdSe Quantum Dots Doped WS ₂ Nanoflowers for Enhanced Solar Hydrogen Production. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800853.	0.8	14
372	Adsorption based realistic molecular model of amorphous kerogen. <i>RSC Advances</i> , 2020, 10, 23312-23320.	1.7	14
373	Photoelectrochemical Reduction of CO ₂ to Syngas by Reduced Ag Catalysts on Si Photocathodes. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3487.	1.3	14
374	Activity and stability of Ir-based gas diffusion electrode for proton exchange membrane water electrolyzer. <i>Chemical Engineering Journal</i> , 2021, 420, 127696.	6.6	14
375	Sandwich-like Co(OH) _x /Ag/Co(OH) ₂ nanosheet composites for oxygen evolution reaction in anion exchange membrane electrolyzer. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161674.	2.8	14
376	Visible Light Driven Ultrasensitive and Selective NO ₂ Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by Cysteine. <i>Small</i> , 2022, 18, e2106613.	5.2	14
377	± Gallium Oxide Films on Microcavity-Embedded Sapphire Substrates Grown by Mist Chemical Vapor Deposition for High-Breakdown Voltage Schottky Diodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5598-5607.	4.0	14
378	High performance transition metal-based electrocatalysts for green hydrogen production. <i>Chemical Communications</i> , 2022, 58, 7874-7889.	2.2	14

#	ARTICLE	IF	CITATIONS
379	Microstructural and Electrical Investigation of Low Resistance and Thermally Stable Pd/Ni Contact on p-Type GaN. Journal of the Electrochemical Society, 2003, 150, G212.	1.3	13
380	Future Changes in Drought Characteristics under Extreme Climate Change over South Korea. Advances in Meteorology, 2016, 2016, 1-19.	0.6	13
381	Effects of mobile charged defects on current-voltage behavior in resistive switching memories based on organic-inorganic hybrid perovskite. Applied Physics Letters, 2018, 113, .	1.5	13
382	Large-scale MoS ₂ thin films with a chemically formed holey structure for enhanced Seebeck thermopower and their anisotropic properties. Journal of Materials Chemistry A, 2020, 8, 8669-8677.	5.2	13
383	Î ² -In ₂ S ₃ as Water Splitting Photoanodes: Promise and Challenges. Electronic Materials Letters, 2021, 17, 119-135.	1.0	13
384	Selective Area Growth of Single-Crystalline Alpha-Gallium Oxide on a Sapphire Nanomembrane by Mist Chemical Vapor Deposition. ACS Applied Electronic Materials, 2021, 3, 4328-4336.	2.0	13
385	Anisotropic relaxation and crystallographic tilt in BiFeO ₃ on miscut SrTiO ₃ (001). Applied Physics Letters, 2010, 96, 051901.	1.5	12
386	Analysis of heat transfer in ordered and disordered mesoporous TiO ₂ films by finite element analysis. Microporous and Mesoporous Materials, 2011, 144, 191-194.	2.2	12
387	Fabrication of a microball lens array for OLEDs fabricated using a monolayer microsphere template. Electronic Materials Letters, 2013, 9, 39-42.	1.0	12
388	Comprehensive study on critical role of surface oxygen vacancies for 2DEG formation and annihilation in LaAlO ₃ /SrTiO ₃ heterointerfaces. Electronic Materials Letters, 2016, 12, 243-250.	1.0	12
389	Iron molybdenum oxide-modified screen-printed electrode: Application for electrocatalytic oxidation of cabergoline. Microchemical Journal, 2020, 157, 104890.	2.3	12
390	Surface Coverage Dependence of Spin-to-Charge Current across Pt/MoS ₂ /Y ₂ O ₃ /Fe ₅ O ₁₂ Layers via Longitudinal Spin Seebeck Effect. Journal of Physical Chemistry Letters, 2020, 11, 5338-5344.	2.1	12
391	Effects of SiC on densification, microstructure and nano-indentation properties of ZrB ₂ -BN composites. Ceramics International, 2021, 47, 9873-9880.	2.3	12
392	Surface-tailored graphene channels. Npj 2D Materials and Applications, 2021, 5, .	3.9	12
393	Strong Fermi-level pinning at metal contacts to halide perovskites. Journal of Materials Chemistry C, 2021, 9, 15212-15220.	2.7	12
394	Nonvolatile Control of Metal-Insulator Transition in VO ₂ by Ferroelectric Gating. Advanced Materials, 2022, 34, .	11.1	12
395	Fabrication of AlGaIn/GaN heterostructure field effect transistor using room-temperature ohmic contact. Solid-State Electronics, 2002, 46, 695-698.	0.8	11
396	Pseudogap formation in the metallic state of La _{0.7} Sr _{0.3} MnO ₃ thin films. Applied Physics Letters, 2008, 93, .	1.5	11

#	ARTICLE	IF	CITATIONS
397	Pore Structure Control of Ordered Mesoporous Silica Film Using Mixed Surfactants. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-5.	1.5	11
398	Identification of an Actual Strain-Induced Effect on Fast Ion Conduction in a Thin-Film Electrolyte. <i>Nano Letters</i> , 2018, 18, 2794-2801.	4.5	11
399	Decoration of metal oxide surface with {111} form Au nanoparticles using PEGylation. <i>RSC Advances</i> , 2018, 8, 18442-18450.	1.7	11
400	Simultaneous Voltammetric Detection of Acetaminophen and Tramadol using Molybdenum Tungsten Disulfide-Modified Graphite Screen-Printed Electrode. <i>International Journal of Electrochemical Science</i> , 2020, 15, 9024-9036.	0.5	11
401	Insights into the hydrogen adsorption on deposited graphene oxide by zirconia and gold nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110061.	1.9	11
402	Drought Forecasting Using the Multi Layer Perceptron (MLP) Artificial Neural Network Model. <i>Journal of Korea Water Resources Association</i> , 2013, 46, 1249-1263.	0.3	11
403	Interfacial Band Bendings in Al Ohmic Contacts to Laser-Irradiated Ga-Face and N-Face n-GaN. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H405.	2.2	10
404	New advances in organic spintronics. <i>Journal of Physics: Conference Series</i> , 2011, 292, 012001.	0.3	10
405	Tailoring two-dimensional electron gas conductivity at oxide heterointerfaces. <i>Current Applied Physics</i> , 2017, 17, 626-639.	1.1	10
406	Electron beam induced epitaxial crystallization in a conducting and insulating a-LaAlO ₃ /SrTiO ₃ system. <i>RSC Advances</i> , 2017, 7, 40279-40285.	1.7	10
407	Synthesis of atomically thin alloyed molybdenum-tungsten disulfides thin films as hole transport layers in organic light-emitting diodes. <i>Applied Surface Science</i> , 2021, 541, 148529.	3.1	10
408	Characterization and FEA evaluation of a ZrB ₂ -SiC ceramic containing TaC for beam-column joint application. <i>Ceramics International</i> , 2021, 47, 11438-11450.	2.3	10
409	Strain-Induced Tailoring of Oxygen-Ion Transport in Highly Doped CeO ₂ Electrolyte: Effects of Biaxial Extrinsic and Local Lattice Strain. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42415-42419.	4.0	10
410	Strain relaxation and dislocation annihilation in compositionally graded $\text{In}_{1-x}\text{Ga}_x\text{O}_3$ layer for high voltage $\text{In}_{1-x}\text{Ga}_x\text{O}_3$ power devices. <i>Acta Materialia</i> , 2021, 221, 117423.	3.8	10
411	Architecture engineering of nanostructured catalyst via layer-by-layer adornment of multiple nanocatalysts on silica nanorod arrays for hydrogenation of nitroarenes. <i>Scientific Reports</i> , 2022, 12, 2.	1.6	10
412	Carbohydrate-based nanostructured catalysts: applications in organic transformations. <i>Materials Today Chemistry</i> , 2022, 24, 100869.	1.7	10
413	Microstructural study of Pt contact on p-type GaN. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 87.	1.6	9
414	Application of ordered mesoporous SiO ₂ film for low power consumption in phase-change memory. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 321-325.	2.2	9

#	ARTICLE	IF	CITATIONS
415	Three-dimensional hemisphere-structured LiSn _{0.0125} Mn _{1.975} O ₄ thin-film cathodes. <i>Electrochemistry Communications</i> , 2014, 43, 36-39.	2.3	9
416	Graphene-mediated enhanced Raman scattering and coherent light lasing from CsPbI ₃ perovskite nanorods. <i>Nano Energy</i> , 2020, 70, 104497.	8.2	9
417	Characterization of TiC ceramics with SiC and/or WC additives using electron microscopy and electron probe micro-analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, , .	2.7	9
418	Rendering Redox Reactions of Cathodes in Li-Ion Capacitors Enabled by Lanthanides. <i>ACS Omega</i> , 2020, 5, 1634-1639.	1.6	9
419	Layer dependence of out-of-plane electrical conductivity and Seebeck coefficient in continuous mono- to multilayer MoS ₂ films. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26896-26903.	5.2	9
420	HRTEM study and mechanical properties of ZrB ₂ @SiC composite: An insight into in-situ carbon formation over the SPS process. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 104, 105789.	1.7	9
421	High-brightness GaN-based light-emitting diode with indium tin oxide based transparent ohmic contact. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1851.	1.6	8
422	All-in-one-type organic light-emitting diodes for color tuning using phosphor in glasses with Pb-free silicate powders. <i>Current Applied Physics</i> , 2014, 14, 1677-1681.	1.1	8
423	Effect of Amine-Based Organic Compounds on the Work-Function Decrease of Graphene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1309-1316.	1.5	8
424	Boosting interfacial charge transfer for efficient water-splitting photoelectrodes: progress in bismuth vanadate photoanodes using various strategies. <i>MRS Communications</i> , 2018, 8, 809-822.	0.8	8
425	Tailoring the Structure of Low-Dimensional Halide Perovskite through a Room Temperature Solution Process: Role of Ligands. <i>Small Methods</i> , 2021, 5, e2100054.	4.6	8
426	Role of TiCN addition on the characteristics of reactive spark plasma sintered ZrB ₂ -based novel composites. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159901.	2.8	8
427	Control of the morphologies of molybdenum disulfide for hydrogen evolution reaction. <i>International Journal of Energy Research</i> , 2022, 46, 11479-11491.	2.2	8
428	Microstructure of spark plasma sintered TiC@TiB ₂ @SiCw composite. <i>Materials Chemistry and Physics</i> , 2022, 281, 125877.	2.0	8
429	Reduction of ohmic contact resistivity on p-type GaN by surface treatment. <i>Current Applied Physics</i> , 2001, 1, 385-388.	1.1	7
430	Investigation of oxygen incorporation in AlGaIn/GaN heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2456-2459.	0.8	7
431	Significantly reduced leakage currents in organic thin film transistors with Mn-doped Bi ₂ Ti ₂ O ₇ high- <i>k</i> gate dielectrics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 208-210.	1.2	7
432	Halide Perovskites: Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses (<i>Adv. Mater.</i> 42/2018). <i>Advanced Materials</i> , 2018, 30, 1870317.	11.1	7

#	ARTICLE	IF	CITATIONS
433	CoMo heterohierarchical foam-structured cathode for anion exchange membrane water electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 2093-2102.	3.8	7
434	Selective Area Growth of GaN Using Polycrystalline Al_2O_3 -Alumina as a Mask for Discrete Micro-GaN Array. <i>Crystal Growth and Design</i> , 2022, 22, 1770-1777.	1.4	7
435	Extremely Sensitive and Selective NO ₂ Detection at Relative Humidity 90% in 2-Dimensional Tin Sulfides/SnO ₂ Nanorod Heterostructure. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132319.	4.0	7
436	Microstructural Investigation and Magnetic Properties of p-type GaN Implanted with Mn ⁺ Ions. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 943-946.	0.7	6
437	IrO ₂ Schottky contact on n-type 4H-SiC. <i>Applied Physics Letters</i> , 2003, 82, 4726-4728.	1.5	6
438	Improved performance of GaAs MESFETs through sulfidation of Pt/GaAs interface. <i>Thin Solid Films</i> , 2004, 447-448, 626-631.	0.8	6
439	High Hole Mobility Inorganic Halide Perovskite Field-Effect Transistors with Enhanced Phase Stability and Interfacial Defect Tolerance. <i>Advanced Electronic Materials</i> , 2022, 8, 2100624.	2.6	6
440	Interfacial Engineering of In ₂ O ₃ /In ₂ S ₃ Heterojunction Photoanodes for Photoelectrochemical Water Oxidation. <i>Electronic Materials Letters</i> , 2022, 18, 391-399.	1.0	6
441	Ohmic contacts for high power LEDs. <i>Physica Status Solidi A</i> , 2004, 201, 2831-2836.	1.7	5
442	Enhancement of electroluminescence in GaN-based light-emitting diodes using an efficient current blocking layer. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2284.	1.6	5
443	Photoemission-induced charging of self-assembled Au nanoparticles on GaN substrates and the effect on surface band bending. <i>Journal of Applied Physics</i> , 2005, 98, 104309.	1.1	5
444	Connected Au network in annealed Ni [*] -Au thin films on p-GaN. <i>Applied Physics Letters</i> , 2007, 91, 201905.	1.5	5
445	Influence of Gas Ambient on Charge Writing at the LaAlO ₃ /SrTiO ₃ Heterointerface. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14037-14042.	4.0	5
446	Thermal stability of 2DEG at amorphous LaAlO ₃ /crystalline SrTiO ₃ heterointerfaces. <i>Nano Convergence</i> , 2016, 3, 7.	6.3	5
447	Enhancement of Ferroelectric Properties of Superlattice-Based Epitaxial BiFeO ₃ Thin Films via Substitutional Doping Effect. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11564-11571.	1.5	5
448	Hybrid Photocatalysts: MOF-Based Hybrids for Solar Fuel Production (Adv. Energy Mater. 27/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170106.	10.2	5
449	Neurofiber Transistors: Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning (Adv. Mater. 26/2021). <i>Advanced Materials</i> , 2021, 33, 2170202.	11.1	5
450	Hydrogen Sensing of Graphene-based Chemoresistive Gas Sensor Enabled by Surface Decoration. <i>Journal of Sensor Science and Technology</i> , 2020, 29, 382-387.	0.1	5

#	ARTICLE	IF	CITATIONS
451	Phase and Composition Tunable Out-of-Plane Seebeck Coefficients for MoS ₂ -Based Films. ACS Applied Electronic Materials, 2022, 4, 1576-1582.	2.0	5
452	Sustainable Antibacterial and Antiviral High-Performance Copper-Coated Filter Produced via Ion Beam Treatment. Polymers, 2022, 14, 1007.	2.0	5
453	Room Temperature Ohmic contact on n-type GaN using plasma treatment. MRS Internet Journal of Nitride Semiconductor Research, 2001, 6, 1.	1.0	4
454	Sensitivity Enhancement of Nanostructured SnO ₂ Gas Sensors Fabricated Using the Glancing Angle Deposition Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 2740-2744.	0.9	4
455	Data Storage: Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching (Adv. Funct. Mater. 5/2018). Advanced Functional Materials, 2018, 28, 1870029.	7.8	4
456	2D Materials: Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials (Small Methods 9/2019). Small Methods, 2019, 3, 1970028.	4.6	4
457	Hydrogen evolving electrode with low Pt loading fabricated by repeated pulse electrodeposition. Korean Journal of Chemical Engineering, 2020, 37, 1340-1345.	1.2	4
458	Recent Advances in Electrochemical Sensing of Isoproterenol. International Journal of Electrochemical Science, 0, , ArticleID:210565.	0.5	4
459	Photoactivities of Nanostructured \pm -Fe ₂ O ₃ Anodes Prepared by Pulsed Electrodeposition. Journal of the Korean Ceramic Society, 2016, 53, 400-405.	1.1	4
460	Surface treatment of Mixed-Halide CsPb(BrxI1-x) ₃ perovskite quantum dots for thermal stability enhancement. Materials Research Bulletin, 2022, 146, 111622.	2.7	4
461	Nanoindentation and TEM investigation of spark plasma sintered TiB ₂ -SiC composite. Ceramics International, 2022, 48, 20285-20293.	2.3	4
462	Self-Assembled Size-Tunable Microlight-Emitting Diodes Using Multiple Sapphire Nanomembranes. ACS Applied Materials & Interfaces, 2022, 14, 25781-25791.	4.0	4
463	Intermodulation Distortion in Epitaxial Y-Ba-Cu-O Thick Films and Multilayers. IEEE Transactions on Applied Superconductivity, 2009, 19, 2855-2858.	1.1	3
464	Thermoelectric Properties of Bi ₂ Te ₃ -PbTe Pseudo Binary Near the Eutectic Composition. Journal of Nanoscience and Nanotechnology, 2012, 12, 3492-3495.	0.9	3
465	Highly Ordered Large-Area Colloid Templates for Nanostructured TiO ₂ Thin Film Gas Sensors. Journal of Nanoscience and Nanotechnology, 2012, 12, 3496-3500.	0.9	3
466	Plausible carrier transport model in organic-inorganic hybrid perovskite resistive memory devices. AIP Advances, 2018, 8, .	0.6	3
467	Diffusivity and hydrophobic hydration of hydrocarbons in supercritical CO ₂ and aqueous brine. RSC Advances, 2020, 10, 37938-37946.	1.7	3
468	2D and Quasi-2D Halide Perovskites: Applications and Progress. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2070015.	1.2	3

#	ARTICLE	IF	CITATIONS
469	Preliminary Validation of a Continuum Model for Dimple Patterns on Polyethylene Naphthalate via Ar Ion Beam Sputtering. <i>Polymers</i> , 2021, 13, 1932.	2.0	3
470	Heaterless Operation of Chemoresistive Gas Sensors for Further Functional Convergence. KAIST Research Series, 2015, , 189-212.	1.5	3
471	Characterization of Inductively-Coupled-Plasma Damage on n-Type GaN Using Deep-Level Transient Spectroscopy and Synchrotron Radiation Photoemission Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 835-839.	0.7	2
472	Co-implantation of Mn+ N into p-type GaN for highTC ferromagnetism. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2878-2881.	0.8	2
473	Low-Resistance, High-Transparency, and Thermally Stable Ohmic Contacts on p-Type GaN Using Ru and Ir. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 227-230.	0.8	2
474	Voltammetric Determination of Antidiabetic Drug Gliclazide in the Presence of Glibenclamide in Real Samples. <i>International Journal of Electrochemical Science</i> , 2020, , 8595-8611.	0.5	2
475	Stabilization of FCC Phase Using Mn Incorporation in Nanograin Invar Alloy Foils Fabricated by Electroforming. <i>Electronic Materials Letters</i> , 2020, 16, 188-194.	1.0	2
476	Light-Activated Gas Sensors: Optically Activated 3D Thin-Shell TiO ₂ for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation (<i>Adv. Sci.</i> 3/2021). <i>Advanced Science</i> , 2021, 8, 2170012.	5.6	2
477	Microstructural evolution during spark plasma sintering of Ti-Al-graphene ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 96, 105496.	1.7	2
478	±-Fe ₂ O ₃ nanostructure-based gas sensors. <i>Journal of Sensor Science and Technology</i> , 2021, 30, 210-217.	0.1	2
479	Voltage-dependent gas discrimination using self-activated graphene with Pt decoration. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130696.	4.0	2
480	Superhydrophobic and Antireflective Properties of the Hierarchically Nanotextured Glass Surfaces. <i>Science of Advanced Materials</i> , 2015, 7, 695-699.	0.1	2
481	Effects of Metal-Organic Framework Membrane on Hydrogen Selectivity. <i>Journal of Sensor Science and Technology</i> , 2020, 29, 374-381.	0.1	2
482	Low-Crystalline AuCuIn Catalyst for Gaseous CO ₂ Electrolyzer. <i>Advanced Science</i> , 2022, , 2104908.	5.6	2
483	Development of Organic/Inorganic Hybrid Materials for Fully Degradable Reactive Oxygen Species-Releasing Stents for Antirestenosis. <i>Langmuir</i> , 0, , .	1.6	2
484	Effect of iron nanoparticles on spark plasma sinterability of ZrB ₂ -based ceramics. <i>Journal of the Australian Ceramic Society</i> , 0, , .	1.1	2
485	Investigation for the Formation of Polarization-Induced Two-Dimensional Electron Gas in AlGaIn/GaN Heterostructure Field Effect Transistors. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 228, 621-624.	0.7	1
486	Room-Temperature Ohmic Contact on AlGaIn/GaN Heterostructure with Surface Treatment Using N ₂ Inductively Coupled Plasma. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, G45.	2.2	1

#	ARTICLE	IF	CITATIONS
487	Transparent Ohmic Contacts on p-GaN Using an Indium Tin Oxide Overlayer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 214-218.	0.8	1
488	Novel Metal Oxide Gas Sensors for Mobile Devices. , 2015, , 131-153.		1
489	Graphene Oxide: Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metalâ€œDecorationâ€œInduced Reduction of Graphene Oxide (<i>Adv. Mater.</i> 15/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	1
490	Ion-beam-irradiated CYTOP-transferred graphene for liquid crystal cells. <i>Electronic Materials Letters</i> , 2017, 13, 277-285.	1.0	1
491	Erratum to â€œSubstantially enhanced photoelectrochemical performance of TiO ₂ nanorods/CdS nanocrystals heterojunction photoanode decorated with MoS ₂ nanosheetsâ€œ[<i>Appl. Catal. B</i> 259 (2019) 118102]. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118261.	10.8	1
492	Effect of Fluoropolymer Assisted Transfer on Graphene Doping. <i>Science of Advanced Materials</i> , 2017, 9, 758-764.	0.1	1
493	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO ₂ Nanorods Decorated by Edgeâ€œRich MoS ₂ Nanoplates (<i>Small</i> 39/2021). <i>Small</i> , 2021, 17, 2170206.	5.2	1
494	Self-activated Graphene Gas Sensors: A Mini Review. <i>Journal of Sensor Science and Technology</i> , 2020, 29, 220-226.	0.1	1
495	<title>GaN blue-light-emitting diode using room-temperature ohmic contacts</title>. , 2001, 4598, 113.		0
496	Effects of photowashing treatment on electrical properties of an AlGaIn/GaN heterostructure field-effect transistor. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1574.	1.6	0
497	Two-step temperature ramping technique in MOCVD GaN films with high electromechanical coupling coefficients. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2006-2009.	0.8	0
498	Strain tunability of spontaneous polarization and enhanced ferroelectric properties in epitaxial (001) BiFeO ₃ thin films. , 2008, , .		0
499	<i>A Special Section on</i> Selected Peer-Reviewed Articles from the International Conference on Advanced Electromaterials 2011 (ICAE2011). <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3254-3259.	0.9	0
500	Solar Water Splitting: Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts (<i>Adv. Sci.</i> 10/2018). <i>Advanced Science</i> , 2018, 5, 1870061.	5.6	0
501	Self-Heated Graphene Microchannels for Low-Power-Consumption Chemoresistive Sensor Array. <i>Proceedings (mdpi)</i> , 2019, 14, .	0.2	0
502	Sensors/Biosensors: Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation (<i>Small</i> 40/2019). <i>Small</i> , 2019, 15, 1970214.	5.2	0
503	Resistive Switching Memory: Leadâ€œFree Dualâ€œPhase Halide Perovskites for Preconditioned Conductingâ€œBridge Memory (<i>Small</i> 41/2020). <i>Small</i> , 2020, 16, 2070228.	5.2	0
504	Suppression of metal-to-insulator transition using strong interfacial coupling at cubic and orthorhombic perovskite oxide heterointerfaces. <i>Nanoscale</i> , 2021, 13, 708-715.	2.8	0

#	ARTICLE	IF	CITATIONS
505	Strain Relaxation and Dislocation Annihilation in Compositionally Graded $\text{In}_{1-x}\text{Al}_x\text{N}$ Epitaxial Layers for High Voltage In_2O_3 Power Devices. SSRN Electronic Journal, 0, . . .	0.4	0
506	Dependence of Gas Sensing Properties of Embossed TiO_2 Thin Films on Links Between Hollow Hemispheres. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2012, 25, 639-645.	0.0	0
507	<l>A Special Section on</l> Artificial Nanostructures for Novel Functionalities of Advanced Materials. Science of Advanced Materials, 2015, 7, 670-671.	0.1	0
508	Enhanced Perovskite Electrocatalysis By Cation Deficiency and Strain Control. ECS Meeting Abstracts, 2018, , .	0.0	0
509	Theoretical Investigation of the Catalytic Activity of Goethite (FeOOH) for the Electrochemical Water Oxidation. ECS Meeting Abstracts, 2018, , .	0.0	0
510	High Performance Si-Based Photoanodes Using a Conformal Co-Based Catalysts By Electrodeposition. ECS Meeting Abstracts, 2018, , .	0.0	0
511	Ligand Engineered MnO Catalytic Nanoparticles As an Efficient Charge Transfer Mediator for Photoelectrochemical Water Oxidation. ECS Meeting Abstracts, 2018, , .	0.0	0
512	Eco-Friendly All-Inorganic Perovskite Memristors and Artificial Synapses. ECS Meeting Abstracts, 2018, , .	0.0	0
513	Water Splitting Electrodes Based on NiFe Alloy Foil Produced By Roll-to-Roll Processing. ECS Meeting Abstracts, 2018, , .	0.0	0
514	Anionengineered Molybdenum Disulfide Thin Film/p-Type Si Heterojunction Photocathode for Efficient Hydrogen Evolution Reaction. ECS Meeting Abstracts, 2018, , .	0.0	0
515	(Invited) 2D Materials Platform for Gas Sensor and Taste Sensor Arrays. ECS Meeting Abstracts, 2020, MA2020-01, 2302-2302.	0.0	0
516	(Invited) Type II Heterojunctions of Inorganic Nanostructures for Efficient Photoelectrochemical Water Splitting. ECS Meeting Abstracts, 2020, MA2020-01, 1703-1703.	0.0	0
517	Verification of Strain-Induced Fast Ionic Conduction in Thin-Film Electrolyte Via Experimental and Computational Study. ECS Meeting Abstracts, 2018, MA2018-01, 1937-1937.	0.0	0
518	(Invited) Si-Based Water Splitting Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts. ECS Meeting Abstracts, 2020, MA2020-02, 3096-3096.	0.0	0
519	(Invited) NH_4^+ WS_4 precursors for Electrochromic Devices. ECS Meeting Abstracts, 2020, MA2020-02, 2073-2073.	0.0	0