

Zongyou Yin

List of Publications by Year in descending order

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173
papers

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citations

13087

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167
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195
all docs

195
docs citations

195
times ranked

33703
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	7.3	3,103
2	Graphene-Based Materials: Synthesis, Characterization, Properties, and Applications. Small, 2011, 7, 1876-1902.	5.2	2,239
3	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. Angewandte Chemie - International Edition, 2011, 50, 11093-11097.	7.2	1,517
4	Preparation and Applications of Mechanically Exfoliated Single-Layer and Multilayer MoS ₂ and WSe ₂ Nanosheets. Accounts of Chemical Research, 2014, 47, 1067-1075.	7.6	1,374
5	Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. Small, 2012, 8, 63-67.	5.2	1,346
6	Synthesis of Few-Layer MoS ₂ Nanosheet-Coated TiO ₂ Nanobelt Heterostructures for Enhanced Photocatalytic Activities. Small, 2013, 9, 140-147.	5.2	1,166
7	Fabrication of Flexible MoS ₂ Thin-Film Transistor Arrays for Practical Gas Sensing Applications. Small, 2012, 8, 2994-2999.	5.2	817
8	Three-dimensional graphene materials: preparation, structures and application in supercapacitors. Energy and Environmental Science, 2014, 7, 1850-1865.	15.6	773
9	Graphene-based electronic sensors. Chemical Science, 2012, 3, 1764.	3.7	663
10	Graphene and Graphene-Based Materials for Energy Storage Applications. Small, 2014, 10, 3480-3498.	5.2	653
11	Electrochemical Deposition of ZnO Nanorods on Transparent Reduced Graphene Oxide Electrodes for Hybrid Solar Cells. Small, 2010, 6, 307-312.	5.2	626
12	Surface strategies for catalytic CO ₂ reduction: from two-dimensional materials to nanoclusters to single atoms. Chemical Society Reviews, 2019, 48, 5310-5349.	18.7	607
13	Carbon Fiber Aerogel Made from Raw Cotton: A Novel, Efficient and Recyclable Sorbent for Oils and Organic Solvents. Advanced Materials, 2013, 25, 5916-5921.	11.1	600
14	25th Anniversary Article: Hybrid Nanostructures Based on Two-Dimensional Nanomaterials. Advanced Materials, 2014, 26, 2185-2204.	11.1	579
15	Centimeter-Long and Large-Scale Micropatterns of Reduced Graphene Oxide Films: Fabrication and Sensing Applications. ACS Nano, 2010, 4, 3201-3208.	7.3	571
16	Organic Photovoltaic Devices Using Highly Flexible Reduced Graphene Oxide Films as Transparent Electrodes. ACS Nano, 2010, 4, 5263-5268.	7.3	566
17	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂ . Small, 2013, 9, 1974-1981.	5.2	544
18	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 9052-9056.	7.2	520

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19	Hierarchical hollow spheres composed of ultrathin Fe ₂ O ₃ nanosheets for lithium storage and photocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 987.	15.6	404
20	Graphene-Based Materials for Solar Cell Applications. <i>Advanced Energy Materials</i> , 2014, 4, 1300574.	10.2	398
21	Electrochemically Reduced Single-Layer MoS ₂ Nanosheets: Characterization, Properties, and Sensing Applications. <i>Small</i> , 2012, 8, 2264-2270.	5.2	373
22	A general method for the large-scale synthesis of uniform ultrathin metal sulphide nanocrystals. <i>Nature Communications</i> , 2012, 3, 1177.	5.8	368
23	MoS ₂ nanoflower-decorated reduced graphene oxide paper for high-performance hydrogen evolution reaction. <i>Nanoscale</i> , 2014, 6, 5624.	2.8	320
24	Transparent, Flexible, All-Reduced Graphene Oxide Thin Film Transistors. <i>ACS Nano</i> , 2011, 5, 5038-5044.	7.3	305
25	Optical Identification of Single- and Few-Layer MoS ₂ Sheets. <i>Small</i> , 2012, 8, 682-686.	5.2	290
26	Au Nanoparticle-Modified MoS ₂ Nanosheet-Based Photoelectrochemical Cells for Water Splitting. <i>Small</i> , 2014, 10, 3537-3543.	5.2	265
27	MnO ₂ -Based Materials for Environmental Applications. <i>Advanced Materials</i> , 2021, 33, e2004862.	11.1	252
28	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. <i>Chemical Science</i> , 2011, 2, 1817.	3.7	249
29	A general salt-resistant hydrophilic/hydrophobic nanoporous double layer design for efficient and stable solar water evaporation distillation. <i>Materials Horizons</i> , 2018, 5, 1143-1150.	6.4	232
30	Layer Thinning and Etching of Mechanically Exfoliated MoS ₂ Nanosheets by Thermal Annealing in Air. <i>Small</i> , 2013, 9, 3314-3319.	5.2	229
31	Bulk Heterojunction Polymer Memory Devices with Reduced Graphene Oxide as Electrodes. <i>ACS Nano</i> , 2010, 4, 3987-3992.	7.3	215
32	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020, 49, 1109-1143.	18.7	211
33	Fabrication of Flexible, All-Reduced Graphene Oxide Non-Volatile Memory Devices. <i>Advanced Materials</i> , 2013, 25, 233-238.	11.1	207
34	All-Carbon Electronic Devices Fabricated by Directly Grown Single-Walled Carbon Nanotubes on Reduced Graphene Oxide Electrodes. <i>Advanced Materials</i> , 2010, 22, 3058-3061.	11.1	201
35	Carbon Microbelt Aerogel Prepared by Waste Paper: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Small</i> , 2014, 10, 3544-3550.	5.2	196
36	A Universal, Rapid Method for Clean Transfer of Nanostructures onto Various Substrates. <i>ACS Nano</i> , 2014, 8, 6563-6570.	7.3	192

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37	Periodic stacking of 2D charged sheets: Self-assembled superlattice of Ni-Al layered double hydroxide (LDH) and reduced graphene oxide. <i>Nano Energy</i> , 2016, 20, 185-193.	8.2	188
38	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <i>Nanoscale</i> , 2012, 4, 293-297.	2.8	185
39	Fabrication of Graphene Nanomesh by Using an Anodic Aluminum Oxide Membrane as a Template. <i>Advanced Materials</i> , 2012, 24, 4138-4142.	11.1	183
40	A facile, relative green, and inexpensive synthetic approach toward large-scale production of SnS ₂ nanoplates for high-performance lithium-ion batteries. <i>Nanoscale</i> , 2013, 5, 1456.	2.8	177
41	Anion-redox nanolithia cathodes for Li-ion batteries. <i>Nature Energy</i> , 2016, 1, .	19.8	171
42	Electrochemical Deposition of Semiconductor Oxides on Reduced Graphene Oxide-Based Flexible, Transparent, and Conductive Electrodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11816-11821.	1.5	159
43	Noble-Metal-Free Multicomponent Nanointegration for Sustainable Energy Conversion. <i>Chemical Reviews</i> , 2021, 121, 10271-10366.	23.0	156
44	ZnIn ₂ S ₄ -Based Photocatalysts for Energy and Environmental Applications. <i>Small Methods</i> , 2021, 5, e2100887.	4.6	153
45	Heterogeneous bimetallic sulfides based seawater electrolysis towards stable industrial-level large current density. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120071.	10.8	150
46	Memory Devices Using a Mixture of MoS ₂ and Graphene Oxide as the Active Layer. <i>Small</i> , 2013, 9, 727-731.	5.2	144
47	Regulating the active species of Ni(OH) ₂ using CeO ₂ : 3D CeO ₂ /Ni(OH) ₂ /carbon foam as an efficient electrode for the oxygen evolution reaction. <i>Chemical Science</i> , 2017, 8, 3211-3217.	3.7	141
48	Coupling and Stacking Order of ReS ₂ Atomic Layers Revealed by Ultralow-Frequency Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 1404-1409.	4.5	139
49	Enhancement of Photogenerated Electron Transport in Dye-Sensitized Solar Cells with Introduction of a Reduced Graphene Oxide-TiO ₂ Junction. <i>Chemistry - A European Journal</i> , 2011, 17, 10832-10837.	1.7	133
50	Preparation of MoS ₂ -MoO ₃ Hybrid Nanomaterials for Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12560-12565.	7.2	133
51	Synthesis of Fe ₃ O ₄ and Pt nanoparticles on reduced graphene oxide and their use as a recyclable catalyst. <i>Nanoscale</i> , 2012, 4, 2478.	2.8	131
52	Full Solution-Processed Synthesis of All Metal Oxide-Based Tree-Like Heterostructures on Fluorine-Doped Tin Oxide for Water Splitting. <i>Advanced Materials</i> , 2012, 24, 5374-5378.	11.1	131
53	Postchemistry of Organic Particles: When TTF Microparticles Meet TCNQ Microstructures in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2010, 132, 6926-6928.	6.6	125
54	Colloidal synthesis of 1T' phase dominated WS ₂ towards enduring electrocatalysis. <i>Nano Energy</i> , 2018, 50, 176-181.	8.2	123

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55	Atomically Dispersed Indium Sites for Selective CO ₂ Electroreduction to Formic Acid. ACS Nano, 2021, 15, 5671-5678.	7.3	121
56	Crystal Structure and Phototransistor Behavior of N-Substituted Heptacene. ACS Applied Materials & Interfaces, 2012, 4, 1883-1886.	4.0	118
57	Preparation, characterization, and photoswitching/light-emitting behaviors of coronene nanowires. Journal of Materials Chemistry, 2011, 21, 1423-1427.	6.7	116
58	Oxygen vacancies activating surface reactivity to favor charge separation and transfer in nanoporous BiVO ₄ photoanodes. Applied Catalysis B: Environmental, 2021, 281, 119477.	10.8	116
59	Multilayer Stacked Low-Temperature-Reduced Graphene Oxide Films: Preparation, Characterization, and Application in Polymer Memory Devices. Small, 2010, 6, 1536-1542.	5.2	113
60	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. Langmuir, 2010, 26, 5603-5609.	1.6	98
61	Synthesis, Characterization, and Physical Properties of a Conjugated Heteroacene: 2-Methyl-1,4,6,7,8,9-hexaphenylbenzo[<i>b</i>]isoquinoline-3(2 <i>H</i>)-one (BIQ). Chemistry - an Asian Journal, 2011, 6, 856-862.	1.7	95
62	Chemical Reaction Between Ag Nanoparticles and TCNQ Microparticles in Aqueous Solution. Small, 2011, 7, 1242-1246.	5.2	92
63	Electrochemical deposition of Cl-doped n-type Cu ₂ O on reduced graphene oxide electrodes. Journal of Materials Chemistry, 2011, 21, 3467-3470.	6.7	91
64	Rare-Earth Incorporated Alloy Catalysts: Synthesis, Properties, and Applications. Advanced Materials, 2021, 33, e2005988.	11.1	84
65	Photoanode Current of Large-Area MoS ₂ Ultrathin Nanosheets with Vertically Mesh-Shaped Structure on Indium Tin Oxide. ACS Applied Materials & Interfaces, 2014, 6, 5983-5987.	4.0	79
66	Low-Temperature in Situ Growth of Graphene on Metallic Substrates and Its Application in Anticorrosion. ACS Applied Materials & Interfaces, 2016, 8, 502-510.	4.0	78
67	Fabrication of nanoelectrode ensembles by electrodeposition of Au nanoparticles on single-layer graphene oxide sheets. Nanoscale, 2012, 4, 2728.	2.8	76
68	Nanolithography of Single-Layer Graphene Oxide Films by Atomic Force Microscopy. Langmuir, 2010, 26, 6164-6166.	1.6	68
69	Emerging Strategies for CO ₂ Photoreduction to CH ₄ : From Experimental to Data-Driven Design. Advanced Energy Materials, 2022, 12, .	10.2	68
70	Oriented Molecular Attachments Through Sol-Gel Chemistry for Synthesis of Ultrathin Hydrated Vanadium Pentoxide Nanosheets and Their Applications. Small, 2013, 9, 716-721.	5.2	67
71	Lanthanide doping induced electrochemical enhancement of Na ₂ Ti ₃ O ₇ anodes for sodium-ion batteries. Chemical Science, 2018, 9, 3421-3425.	3.7	66
72	Room temperature stable CO _x -free H ₂ production from methanol with magnesium oxide nanophotocatalysts. Science Advances, 2016, 2, e1501425.	4.7	62

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73	High-yield Electrochemical Production of Large-sized and Thinly Layered NiPS ₃ Flakes for Overall Water Splitting. <i>Small</i> , 2019, 15, e1902427.	5.2	62
74	Solid Nanoporosity Governs Catalytic CO ₂ and N ₂ Reduction. <i>ACS Nano</i> , 2020, 14, 7734-7759.	7.3	59
75	2D Materials Based on Main Group Element Compounds: Phases, Synthesis, Characterization, and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2001127.	7.8	58
76	General Bottom-Up Colloidal Synthesis of Nano-Monolayer Transition-Metal Dichalcogenides with High 1T [±] -Phase Purity. <i>Journal of the American Chemical Society</i> , 2022, 144, 4863-4873.	6.6	58
77	2D materials inks toward smart flexible electronics. <i>Materials Today</i> , 2021, 50, 116-148.	8.3	57
78	Mechanisms and Applications of Steady-State Photoluminescence Spectroscopy in Two-Dimensional Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2020, 14, 14579-14604.	7.3	56
79	Structural-Phase Catalytic Redox Reactions in Energy and Environmental Applications. <i>Advanced Materials</i> , 2020, 32, e1905739.	11.1	56
80	Bottom-Up Preparation of Porous Metal-Oxide Ultrathin Sheets with Adjustable Composition/Phases and Their Applications. <i>Small</i> , 2011, 7, 3458-3464.	5.2	55
81	A review of energy bandgap engineering in III-V semiconductor alloys for mid-infrared laser applications. <i>Solid-State Electronics</i> , 2007, 51, 6-15.	0.8	53
82	Data-Driven Materials Innovation and Applications. <i>Advanced Materials</i> , 2022, 34, e2104113.	11.1	51
83	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15973-15979.	1.5	50
84	Spontaneous Formation of Noble and Heavy Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018, 30, e1803351.	11.1	47
85	Preparation, characterization, physical properties, and photoconducting behaviour of anthracene derivative nanowires. <i>Nanoscale</i> , 2011, 3, 4720.	2.8	46
86	Sustainable Nanoplasmon-Enhanced Photoredox Reactions: Synthesis, Characterization, and Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2002402.	10.2	44
87	InVO ₄ -based photocatalysts for energy and environmental applications. <i>Chemical Engineering Journal</i> , 2022, 428, 131145.	6.6	44
88	Advancement of Bismuth-Based Materials for Electrocatalytic and Photo(electro)catalytic Ammonia Synthesis. <i>Advanced Functional Materials</i> , 2022, 32, 2106713.	7.8	44
89	Enhanced transport in transistor by tuning transition-metal oxide electronic states interfaced with diamond. <i>Science Advances</i> , 2018, 4, eaau0480.	4.7	42
90	Bandgap engineered g-C ₃ N ₄ and its graphene composites for stable photoreduction of CO ₂ to methanol. <i>Carbon</i> , 2022, 192, 101-108.	5.4	42

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91	Solution-Processed Nanocrystalline TiO ₂ Buffer Layer Used for Improving the Performance of Organic Photovoltaics. ACS Applied Materials & Interfaces, 2011, 3, 1063-1067.	4.0	40
92	Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H ₂ Fuel. Advanced Materials, 2019, 31, e1905540.	11.1	39
93	Nonepitaxial Gold-Tipped ZnSe Hybrid Nanorods for Efficient Photocatalytic Hydrogen Production. Small, 2020, 16, e1902231.	5.2	37
94	Assembly of Graphene Oxide and Au _{0.7} Ag _{0.3} Alloy Nanoparticles on SiO ₂ : A New Raman Substrate with Ultrahigh Signal-to-Background Ratio. Journal of Physical Chemistry C, 2011, 115, 24080-24084.	1.5	36
95	A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. Nanotechnology, 2012, 23, 425502.	1.3	35
96	High-Temperature Thermoelectric Monolayer Bi ₂ TeSe ₂ with High Power Factor and Ultralow Thermal Conductivity. ACS Applied Energy Materials, 2022, 5, 2564-2572.	2.5	35
97	Quantifying Quasi-Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides. Advanced Materials, 2019, 31, e1900522.	11.1	34
98	Periodic nanostructures: preparation, properties and applications. Chemical Society Reviews, 2021, 50, 6423-6482.	18.7	34
99	Boosting Thermoelectric Performance of 2D Transition-Metal Dichalcogenides by Complex Cluster Substitution: The Role of Octahedral Au ₆ Clusters. ACS Applied Energy Materials, 2021, 4, 12163-12176.	2.5	33
100	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	3.3	32
101	Machine learning accelerated calculation and design of electrocatalysts for CO ₂ reduction. SmartMat, 2022, 3, 68-83.	6.4	31
102	MOF-on-MOF nanoarchitecturing of Fe ₂ O ₃ @ZnFe ₂ O ₄ radial-heterospindles towards multifaceted superiorities for acetone detection. Chemical Engineering Journal, 2022, 442, 136094.	6.6	31
103	Photoactivity and Stability Co-Enhancement: When Localized Plasmons Meet Oxygen Vacancies in MgO. Small, 2018, 14, e1803233.	5.2	28
104	A Diamond:H/WO ₃ Metal-Oxide Semiconductor Field-Effect Transistor. IEEE Electron Device Letters, 2018, 39, 540-543.	2.2	27
105	Synergizing Phase and Cavity in CoMoO _x /S _y Yolka-Shell Anodes to Co-Enhance Capacity and Rate Capability in Sodium Storage. Small, 2020, 16, e2002487.	5.2	27
106	The data-intensive scientific revolution occurring where two-dimensional materials meet machine learning. Cell Reports Physical Science, 2021, 2, 100482.	2.8	26
107	Rare earth element based single-atom catalysts: synthesis, characterization and applications in photo/electro-catalytic reactions. Nanoscale Horizons, 2021, 7, 31-40.	4.1	26
108	Mesoporous ZnAl ₂ Si ₁₀ O ₂₄ nanofertilizers enable high yield of Oryza sativa L.. Scientific Reports, 2020, 10, 10841.	1.6	25

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109	Machine Learning-Aided Crystal Facet Rational Design with Ionic Liquid Controllable Synthesis. <i>Small</i> , 2021, 17, e2100024.	5.2	24
110	Growth of dandelion-shaped CuInSe_2 nanostructures by a two-step solvothermal process. <i>Nanotechnology</i> , 2011, 22, 195607.	1.3	23
111	Gold Nanotip Array for Ultrasensitive Electrochemical Sensing and Spectroscopic Monitoring. <i>Small</i> , 2013, 9, 2260-2265.	5.2	23
112	Low temperature growth of graphene on Cu-Ni alloy nanofibers for stable, flexible electrodes. <i>Nanoscale</i> , 2014, 6, 5110.	2.8	23
113	Emission Control from Transition Metal Dichalcogenide Monolayers by Aggregation-Induced Molecular Rotors. <i>ACS Nano</i> , 2020, 14, 7444-7453.	7.3	23
114	Twist-driven wide freedom of indirect interlayer exciton emission in MoS_2/WS_2 heterobilayers. <i>Cell Reports Physical Science</i> , 2021, 2, 100509.	2.8	23
115	Nano Polymorphism-Enabled Redox Electrodes for Rechargeable Batteries. <i>Advanced Materials</i> , 2021, 33, e2004920.	11.1	23
116	Rational Synthesis of Triangular $\text{Au-Ag}_2\text{S}$ Hybrid Nanoframes with Effective Photoresponses. <i>Chemistry - A European Journal</i> , 2014, 20, 2742-2745.	1.7	22
117	Phosphine-Free, Low-Temperature Synthesis of Tetrapod-Shaped CdS and Its Hybrid with Au Nanoparticles. <i>Small</i> , 2014, 10, 4727-4734.	5.2	20
118	Periodic AuAg_2S Heterostructured Nanowires. <i>Small</i> , 2014, 10, 479-482.	5.2	20
119	Emerging Synthesis Strategies of 2D MOFs for Electrical Devices and Integrated Circuits. <i>Small</i> , 2022, 18, .	5.2	19
120	A new method of two-step growth of InAs/GaAs quantum dots with higher density and more size uniformity. <i>Nanotechnology</i> , 2006, 17, 295-299.	1.3	17
121	Thickness-tunable growth of ultra-large, continuous and high-dielectric h-BN thin films. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1871-1879.	2.7	17
122	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> , 2022, 3, 1359-1400.	2.6	17
123	Ta S_2 nanosheet-based room-temperature dosage meter for nitric oxide. <i>APL Materials</i> , 2014, 2, .	2.2	16
124	A thermally insulated solar evaporator coupled with a passive condenser for freshwater collection. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22428-22439.	5.2	16
125	An Experimentally Verified LC-MS Protocol toward an Economical, Reliable, and Quantitative Isotopic Analysis in Nitrogen Reduction Reactions. <i>Small Methods</i> , 2021, 5, e2000694.	4.6	16
126	Effects of $\text{In}_x\text{Ga}_{1-x}$ As matrix layer on InAs quantum dot formation and their emission wavelength. <i>Journal of Applied Physics</i> , 2006, 100, 033109.	1.1	15

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127	Organic-Rare Earth Hybrid Anode with Superior Cyclability for Lithium Ion Battery. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902168.	1.9	15
128	Effect of rapid thermal annealing on the ordering of AlInP grown by metal-organic vapor-phase epitaxy. <i>Applied Physics Letters</i> , 2005, 87, 181906.	1.5	14
129	Plasmonically enhanced photoluminescence of monolayer MoS ₂ via nanosphere lithography-templated gold metasurfaces. <i>Nanophotonics</i> , 2021, 10, 1733-1740.	2.9	14
130	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. <i>Langmuir</i> , 2010, 26, 4616-4619.	1.6	12
131	Controlled CVD growth of Cu-Sb alloy nanostructures. <i>Nanotechnology</i> , 2011, 22, 325602.	1.3	12
132	Colloidal quasi-one-dimensional dual semiconductor core/shell nanorod couple heterostructures with blue fluorescence. <i>Nanoscale</i> , 2019, 11, 10190-10197.	2.8	12
133	All room-temperature synthesis, N ₂ photofixation and reactivation over 2D cobalt oxides. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 121001.	10.8	11
134	Effects of growth conditions on InAs quantum dot formation by metal-organic chemical vapor deposition using tertiarybutylarsine in pure N ₂ ambient. <i>Journal of Applied Physics</i> , 2006, 99, 124306.	1.1	10
135	Photo/electrochemical Carbon Dioxide Conversion into C ₃₊ Hydrocarbons: Reactivity and Selectivity. <i>ChemNanoMat</i> , 2021, 7, 969-981.	1.5	10
136	Selective N ₂ /H ₂ O adsorption onto 2D amphiphilic amorphous photocatalysts for ambient gas-phase nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120240.	10.8	10
137	Rod-coating all-solution fabrication of double functional graphene oxide films for flexible alternating current (AC)-driven light-emitting diodes. <i>RSC Advances</i> , 2014, 4, 55671-55676.	1.7	8
138	Mid-infrared emissive InAsSb quantum dots grown by metal-organic chemical vapor deposition. <i>CrystEngComm</i> , 2013, 15, 604-608.	1.3	7
139	Simulation-guided nanofabrication of high-quality practical tungsten probes. <i>RSC Advances</i> , 2020, 10, 24280-24287.	1.7	7
140	Integration of data-intensive, machine learning and robotic experimental approaches for accelerated discovery of catalysts in renewable energy-related reactions. <i>Materials Reports Energy</i> , 2021, 1, 100049.	1.7	7
141	Thermal annealing effect on GaNAs epilayers with different nitrogen compositions grown by MOCVD. <i>Journal of Crystal Growth</i> , 2007, 307, 229-234.	0.7	6
142	Formation of mid-infrared emissive InAs quantum dots on a graded In _x Ga _{1-x} As/InP matrix with a more uniform size and higher density under safer growth conditions. <i>Nanotechnology</i> , 2006, 17, 1646-1650.	1.3	5
143	Argon-plasma-induced InAs/InGaAs/InP quantum dot intermixing. <i>Nanotechnology</i> , 2006, 17, 4664-4667.	1.3	5
144	Zero-emission multivalORIZATION of light alcohols with self-separable pure H ₂ fuel. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120212.	10.8	5

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145	Thermal Transport and Mechanical Properties of Layered Oxychalcogenides LaCuOX (X = S, Se, and Te). ACS Applied Energy Materials, 2022, 5, 6943-6951.	2.5	5
146	Layered Nanomaterials: Fabrication of Single- and Multilayer MoS2 Film-Based Field-Effect Transistors for Sensing NO at Room Temperature (Small 1/2012). Small, 2012, 8, 2-2.	5.2	4
147	NIR-plasmon-enhanced Systems for Energy Conversion and Environmental Remediation. Chemical Research in Chinese Universities, 2020, 36, 1000-1005.	1.3	4
148	Mid-Infrared Emission From InAs Quantum Dots Grown by Metal-Organic Vapor Phase Epitaxy. IEEE Nanotechnology Magazine, 2006, 5, 683-686.	1.1	3
149	Selective Intermixing of InAs/InGaAs/InP Quantum Dot Structure With Large Energy Band Gap Tuning. IEEE Nanotechnology Magazine, 2008, 7, 422-426.	1.1	3
150	Polarization insensitive gain medium with hybrid strained quantum well. Optics and Laser Technology, 2002, 34, 595-597.	2.2	2
151	Study of InAs/GaAs quantum dots grown by MOVPE under the safer growth conditions. Journal of Nanoparticle Research, 2007, 9, 877-884.	0.8	2
152	MOVPE growth of AlxIn1-xP using tertiarybutylphosphine in pure N2 ambient. Thin Solid Films, 2007, 515, 4454-4458.	0.8	2
153	Water Splitting: Au Nanoparticle-Modified MoS2Nanosheet-Based Photoelectrochemical Cells for Water Splitting (Small 17/2014). Small, 2014, 10, 3536-3536.	5.2	2
154	Solar Cells: Quantifying Quasi-Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides (Adv. Mater. 25/2019). Advanced Materials, 2019, 31, 1970180.	11.1	2
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