

# Hai-Bo Zeng

## List of Publications by Year in descending order

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430  
papers

49,239  
citations

1697

104  
h-index

1851

209  
g-index

459  
all docs

459  
docs citations

459  
times ranked

38301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facet-induced coordination competition for highly ordered CsPbBr <sub>3</sub> nanoplatelets with strong polarized emission. Nano Research, 2022, 15, 502-509.	5.8	18
2	2D Materialâ€Based Photodetectors for Infrared Imaging. Small Science, 2022, 2, 2100051.	5.8	45
3	Extending Channel Scaling Limit of p-MOSFETs Through Antimonene With Heavy Effective Mass and High Density of State. IEEE Transactions on Electron Devices, 2022, 69, 857-862.	1.6	17
4	A Universal Ternaryâ€Solventâ€Ink Strategy toward Efficient Inkjetâ€Printed Perovskite Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2107798.	11.1	109
5	Perspective on Metal Halides with Selfâ€Trapped Exciton toward White Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	3.6	14
6	A mixed-dimensional WS <sub>2</sub> /GaSb heterojunction for high-performance pâ€n diodes and junction field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 1511-1516.	2.7	1
7	Water-dispersed CsPbBr <sub>3</sub> nanocrystals for single molecule localization microscopy with high location accuracy for targeted bioimaging. Nanoscale, 2022, 14, 6392-6401.	2.8	7
8	Enhanced interband tunneling in two-dimensional tunneling transistors through anisotropic energy dispersion. Physical Review B, 2022, 105, .	1.1	16
9	Substantial Improvement of Operating Stability by Strengthening Metalâ€Halogen Bonds in Halide Perovskites. Advanced Functional Materials, 2022, 32, .	7.8	16
10	High-definition colorful perovskite narrowband photodetector array enabled by laser-direct-writing. Nano Research, 2022, 15, 5476-5482.	5.8	13
11	Perovskite oxides as a 2D dielectric. Nature Electronics, 2022, 5, 199-200.	13.1	5
12	Charge-carrier dynamics and regulation strategies in perovskite light-emitting diodes: From materials to devices. Applied Physics Reviews, 2022, 9, .	5.5	20
13	Interfacial electronic properties of metal/CsSnBr <sub>3</sub> heterojunctions. Nanotechnology, 2022, , .	1.3	1
14	Robust Leadâ€Free Perovskite Nanowire Arrayâ€Based Artificial Synapses Exemplifying Gestalt Principle of Closure via a Letter Recognition Scheme. Advanced Intelligent Systems, 2022, 4, .	3.3	5
15	Energy Regulation in White-Light-Emitting Diodes. ACS Energy Letters, 2022, 7, 2173-2188.	8.8	26
16	High-Performance Monolayer BeN <sub>2</sub> Transistors With Ultrahigh On-State Current: A DFT Coupled With NEGF Study. IEEE Transactions on Electron Devices, 2022, 69, 4501-4506.	1.6	7
17	Bismuthene. , 2022, , 173-196.		1
18	Dependence of Tunneling Mechanism on Two-Dimensional Material Parameters: A High-Throughput Study. Physical Review Applied, 2022, 17, .	1.5	13

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19	High-Performance and Low-Power Transistors Based on Anisotropic Monolayer $\text{Te}_2\text{O}$ . <i>Physical Review Applied</i> , 2022, 17, 044002. <a href="https://doi.org/10.1103/PhysRevApplied.17.044002">https://doi.org/10.1103/PhysRevApplied.17.044002</a>	1.5	15
20	Atom Substitution Defects of Hexagonal Boron Phosphide Suppress Charge Recombination. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6455-6461. <a href="https://doi.org/10.1021/acs.jpclett.2c01114">https://doi.org/10.1021/acs.jpclett.2c01114</a>	2.1	4
21	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie</i> , 2021, 133, 2661-2668. <a href="https://doi.org/10.1002/ange.202112668">https://doi.org/10.1002/ange.202112668</a>	1.6	5
22	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2629-2636. <a href="https://doi.org/10.1002/anie.202112636">https://doi.org/10.1002/anie.202112636</a>	7.2	24
23	Broadband and sensitive two-dimensional halide perovskite photodetector for full-spectrum underwater optical communication. <i>Nano Research</i> , 2021, 14, 1210-1217. <a href="https://doi.org/10.1007/s12274-021-03111-1">https://doi.org/10.1007/s12274-021-03111-1</a>	5.8	58
24	$\text{CsPbBr}_3$ @ $\text{Cs}_4\text{PbBr}_6$ Emitter-in-Host Composite: Fluorescence Origin and Interphase Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3-19. <a href="https://doi.org/10.1021/acs.jpcc.0c24811">https://doi.org/10.1021/acs.jpcc.0c24811</a>	1.5	24
25	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , 2021, 15, 238-244. <a href="https://doi.org/10.1038/s41566-021-00811-1">https://doi.org/10.1038/s41566-021-00811-1</a>	15.6	231
26	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. <i>Small Structures</i> , 2021, 2, 2000071. <a href="https://doi.org/10.1002/ssm.2000071">https://doi.org/10.1002/ssm.2000071</a>	6.9	71
27	Armor-like passivated $\text{CsPbBr}_3$ quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8772-8781. <a href="https://doi.org/10.1039/D1JA00143A">https://doi.org/10.1039/D1JA00143A</a>	5.2	13
28	Micro-patterned photoalignment of $\text{CsPbBr}_3$ nanowires with liquid crystal molecule composite film for polarized emission. <i>Nanoscale</i> , 2021, 13, 14980-14986. <a href="https://doi.org/10.1039/D1NR01114A">https://doi.org/10.1039/D1NR01114A</a>	2.8	10
29	One-pot synthesis of $\text{Cs}_3\text{Cu}_2\text{I}_5$ nanocrystals based on thermodynamic equilibrium. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6152-6159. <a href="https://doi.org/10.1039/D1QM00114A">https://doi.org/10.1039/D1QM00114A</a>	3.2	22
30	The Synergy of Plasmonic Enhancement and Hot-Electron Effect on $\text{CsPbBr}_3$ Nanosheets Photodetector. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002053. <a href="https://doi.org/10.1002/admi.2002053">https://doi.org/10.1002/admi.2002053</a>	1.9	12
31	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300-1050 nm. <i>Advanced Materials</i> , 2021, 33, e2003852. <a href="https://doi.org/10.1002/adma.2003852">https://doi.org/10.1002/adma.2003852</a>	11.1	32
32	Fluorination suppresses thermal quenching in perovskite QLEDs. <i>Science China Chemistry</i> , 2021, 64, 1113-1114. <a href="https://doi.org/10.1007/s11464-021-0811-1">https://doi.org/10.1007/s11464-021-0811-1</a>	4.2	0
33	A flexible ultrasensitive optoelectronic sensor array for neuromorphic vision systems. <i>Nature Communications</i> , 2021, 12, 1798. <a href="https://doi.org/10.1038/s41467-021-21798-1">https://doi.org/10.1038/s41467-021-21798-1</a>	5.8	198
34	Metal Halide Perovskites for Optical Parametric Modulation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3090-3098. <a href="https://doi.org/10.1021/acs.jpclett.0c24811">https://doi.org/10.1021/acs.jpclett.0c24811</a>	2.1	7
35	White light-emitting diodes from perovskites. <i>Journal of Semiconductors</i> , 2021, 42, 030202. <a href="https://doi.org/10.1002/semi.2021030202">https://doi.org/10.1002/semi.2021030202</a>	2.0	14
36	Quantum Transport in Monolayer $\text{Te}_2\text{O}$ Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2001169. <a href="https://doi.org/10.1002/aelm.2001169">https://doi.org/10.1002/aelm.2001169</a>	2.6	6

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37	Green Perovskite Light-Emitting Diodes with 200-Hours Stability and 16% Efficiency: Cross-Linking Strategy and Mechanism. <i>Advanced Functional Materials</i> , 2021, 31, 2011003.	7.8	67
38	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. <i>ACS Nano</i> , 2021, 15, 8204-8215.	7.3	66
39	Amplifying Surface Energy Difference toward Anisotropic Growth of All-Inorganic Perovskite Single-Crystal Wires for Highly Sensitive Photodetector. <i>Advanced Functional Materials</i> , 2021, 31, 2101966.	7.8	21
40	Mn <sup>2+</sup> induced significant improvement and robust stability of radioluminescence in Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> for high-performance nuclear battery. <i>Nature Communications</i> , 2021, 12, 3879.	5.8	76
41	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
42	Pressurized Alloying Assisted Synthesis of High Quality Antimonene for Capacitive Deionization. <i>Advanced Functional Materials</i> , 2021, 31, 2102766.	7.8	15
43	Advanced Devices for Tumor Diagnosis and Therapy. <i>Small</i> , 2021, 17, 2100003.	5.2	14
44	Doped Emitting Cesium Silver Halides as X-Ray Scintillator with Fast Response Time, High Absorption Coefficient, and Light Yield. <i>Advanced Photonics Research</i> , 2021, 2, 2100066.	1.7	7
45	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. <i>ACS Nano</i> , 2021, 15, 14610-14617.	7.3	32
46	Strong Polarized Photoluminescence CsPbBr <sub>3</sub> Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36147-36156.	4.0	20
47	Halide ion migration in lead-free all-inorganic cesium tin perovskites. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	14
48	Engineering Self-Reconstruction via Flexible Components in Layered Double Hydroxides for Superior-Evolving Performance. <i>Small</i> , 2021, 17, e2101671.	5.2	30
49	Operational and Spectral Stability of Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021, 6, 3114-3131.	8.8	46
50	Perspective on single-emissive-layer white-LED based on perovskites. <i>Applied Physics Letters</i> , 2021, 119, 080502.	1.5	7
51	Optical detection of quantum geometric tensor in intrinsic semiconductors. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	6
52	Perovskite Anion Exchange: A Microdynamics Model and a Polar Adsorption Strategy for Precise Control of Luminescence Color. <i>Advanced Functional Materials</i> , 2021, 31, 2106871.	7.8	45
53	Perovskite Single Crystals: Synthesis, Optoelectronic Properties, and Application. <i>Advanced Functional Materials</i> , 2021, 31, 2008684.	7.8	70
54	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. <i>ACS Photonics</i> , 2021, 8, 113-124.	3.2	80

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55	Lead-free halide perovskite photodetectors spanning from near-infrared to X-ray range: a review. <i>Nanophotonics</i> , 2021, 10, 2221-2247.	2.9	30
56	Efficient, Stable, and Tunable Cold/Warm White Light from Lead-Free Halide Double Perovskites Cs <sub>2</sub> Zr <sub>1-x</sub> Te <sub>x</sub> Cl <sub>6</sub> . <i>Advanced Optical Materials</i> , 2021, 9, 2100815.	3.6	30
57	Research progress of full electroluminescent white light-emitting diodes based on a single emissive layer. <i>Light: Science and Applications</i> , 2021, 10, 206.	7.7	84
58	Oriented Halide Perovskite Crystals. <i>Chemical Reviews</i> , 2021, 121, 12107-12108.	23.0	1
59	P-Type AsP Nanosheet as an Electron Donor for Stable Solar Broad-Spectrum Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55102-55111.	4.0	2
60	Defect Behaviors in Perovskite Light-Emitting Diodes. , 2021, 3, 1702-1728.		27
61	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2021, 15, 17150-17174.	7.3	101
62	Advances of 2D bismuth in energy sciences. <i>Chemical Society Reviews</i> , 2020, 49, 263-285.	18.7	138
63	Photo-induced charge kinetic acceleration in ultrathin layered double hydroxide nanosheets boosts the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1105-1112.	5.2	32
64	Enhanced Electrochemiluminescence of Porphyrin-Based Metal-Organic Frameworks Controlled via Coordination Modulation. <i>Analytical Chemistry</i> , 2020, 92, 1916-1924.	3.2	28
65	Bionic Detectors Based on Low-Bandgap Inorganic Perovskite for Selective NIR Photon Detection and Imaging. <i>Advanced Materials</i> , 2020, 32, e1905362.	11.1	83
66	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. <i>ACS Nano</i> , 2020, 14, 2777-2787.	7.3	90
67	Lead-free, stable, high-efficiency (52%) blue luminescent FA <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> perovskite quantum dots. <i>Nanoscale Horizons</i> , 2020, 5, 580-585.	4.1	70
68	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. <i>ACS Nano</i> , 2020, 14, 5183-5193.	7.3	205
69	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Solids with Robust Green Photoluminescence. <i>ChemNanoMat</i> , 2020, 6, 258-266.	1.5	11
70	Halide Perovskite Lateral Heterostructures for Energy Routing Based Photonic Applications. <i>Advanced Optical Materials</i> , 2020, 8, 2001347.	3.6	10
71	Energy Manipulation in Lanthanide-Doped Core-Shell Nanoparticles for Tunable Dual-Mode Luminescence toward Advanced Anti-Counterfeiting. <i>Advanced Materials</i> , 2020, 32, e2002121.	11.1	165
72	Sensitively switchable visible/infrared multispectral detection and imaging based on a tandem perovskite device. <i>Nanoscale</i> , 2020, 12, 20386-20395.	2.8	13

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73	Antimonene nanosheets fabricated by laser irradiation technique with outstanding nonlinear absorption responses. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	12
74	Synthesis of single CsPbBr <sub>3</sub> @SiO <sub>2</sub> core-shell particles via surface activation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17403-17409.	2.7	36
75	Postsynthesis Ligand Exchange Induced Porphyrin Hybrid Crystalloid Reconstruction for Self-Enhanced Electrochemiluminescence. <i>Analytical Chemistry</i> , 2020, 92, 15270-15274.	3.2	10
76	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12632-12637.	2.7	16
77	Progress and perspective on CsPbX <sub>3</sub> nanocrystals for light emitting diodes and solar cells. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	20
78	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 3902.	5.8	204
79	Ultrascaled Double-Gate Monolayer SnS <sub>2</sub> MOSFETs for High-Performance and Low-Power Applications. <i>Physical Review Applied</i> , 2020, 14, .	1.5	21
80	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. <i>Light: Science and Applications</i> , 2020, 9, 163.	7.7	81
81	High-performance monolayer Na <sub>3</sub> Sb shrinking transistors: a DFT-NEGF study. <i>Nanoscale</i> , 2020, 12, 18931-18937.	2.8	11
82	Efficient Blue Perovskite Light-Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. <i>Advanced Functional Materials</i> , 2020, 30, 2001732.	7.8	118
83	Ballistic Transport in High-Performance and Low-Power Sub-5 nm Two-Dimensional ZrNBr MOSFETs. <i>IEEE Electron Device Letters</i> , 2020, 41, 1029-1032.	2.2	14
84	Two-dimensional halide perovskite as <sup>125</sup> I-ray scintillator for nuclear radiation monitoring. <i>Nature Communications</i> , 2020, 11, 3395.	5.8	110
85	Deep-Ultraviolet Plasmon Resonances in Al-Al <sub>2</sub> O <sub>3</sub> @C Core-Shell Nanoparticles Prepared via Laser Ablation in Liquid. <i>ACS Applied Electronic Materials</i> , 2020, 2, 802-807.	2.0	3
86	Anisotropic In-Plane Ballistic Transport in Monolayer Black Arsenic-Phosphorus FETs. <i>Advanced Electronic Materials</i> , 2020, 6, 1901281.	2.6	59
87	Two-Dimensional BAs/InTe: A Promising Tandem Solar Cell with High Power Conversion Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6074-6081.	4.0	32
88	Designing sub-10-nm Metal-Oxide-Semiconductor Field-Effect Transistors via Ballistic Transport and Disparate Effective Mass: The Case of Two-Dimensional BiN. <i>Physical Review Applied</i> , 2020, 13, .	1.5	69
89	All-Perovskite Integrated X-Ray Detector with Ultrahigh Sensitivity. <i>Advanced Optical Materials</i> , 2020, 8, 2000273.	3.6	61
90	Charge Transfer Boosting Moisture Resistance of Seminude Perovskite Nanocrystals via Hierarchical Alumina Modulation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3159-3165.	2.1	16

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91	Engineering Interfaces to Steer Hole Dynamics of BiVO <sub>4</sub> Photoanodes for Solar Water Oxidation. Solar Rrl, 2019, 3, 1900115.	3.1	23
92	Photon-Induced Reshaping in Perovskite Material Yields of Nanocrystals with Accurate Control of Size and Morphology. Journal of Physical Chemistry Letters, 2019, 10, 4149-4156.	2.1	18
93	2D V&E Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	11.1	303
94	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. Journal of Materials Chemistry C, 2019, 7, 8969-8974.	2.7	8
95	Water-Assisted Synthesis of Blue Chip Excitable 2D Halide Perovskite with Green-Red Dual Emissions for White LEDs. Small Methods, 2019, 3, 1900365.	4.6	25
96	Recent advances and prospects toward blue perovskite materials and light-emitting diodes. Informa&N Mater&ly, 2019, 1, 211-233.	8.5	84
97	Interfacial Tunneling Effect Enhanced CsPbBr <sub>3</sub> Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	7.8	70
98	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. Advanced Materials, 2019, 31, e1903829.	11.1	44
99	Optical response of the chiral topological semimetal RhSi. Physical Review B, 2019, 100, .	1.1	13
100	Novel optoelectronic rotors based on orthorhombic CsPb(Br/I) <sub>3</sub> nanorods. Nanoscale, 2019, 11, 3117-3122.	2.8	14
101	Tailoring natural layered ̂ <sup>2</sup> -phase antimony into few layer antimonene for Li storage with high rate capabilities. Journal of Materials Chemistry A, 2019, 7, 3238-3243.	5.2	54
102	Aligned Heterointerface-Induced 1T-MoS <sub>2</sub> Monolayer with Near-Ideal Gibbs Free for Stable Hydrogen Evolution Reaction. Small, 2019, 15, e1804903.	5.2	63
103	Highly Luminescent and Stable Halide Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 673-681.	8.8	129
104	Ultrathin Bismuth Nanosheets for Stable Na-Ion Batteries: Clarification of Structure and Phase Transition by in Situ Observation. Nano Letters, 2019, 19, 1118-1123.	4.5	124
105	Robust two-dimensional topological insulators in derivatives of group-VA oxides with large band gap: Tunable quantum spin Hall states. Applied Materials Today, 2019, 15, 163-170.	2.3	13
106	Unusual Electronic Transitions in Two-dimensional Layered $\text{Sn}_2\text{Sb}_2\text{Te}_4$ Driven by Electronic State Rehybridization. Physical Review Applied, 2019, 11, .	15	21
107	Electronic band structures and optical properties of atomically thin AuSe: first-principle calculations. Journal of Semiconductors, 2019, 40, 062004.	2.0	7
108	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. Advanced Materials, 2019, 31, e1902606.	11.1	84

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109	CsPbBr <sub>3</sub> Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , 2019, 31, e1900767.	11.1	329
110	A Facile Approach to Solid-State White Emissive Carbon Dots and Their Application in UV-Excitable and Single-Component-Based White LEDs. <i>Nanomaterials</i> , 2019, 9, 725.	1.9	25
111	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21100-21108.	4.0	6
112	Band engineering realized by chemical combination in 2D group VA <sup>2+</sup> VA materials. <i>Nanoscale Horizons</i> , 2019, 4, 1145-1152.	4.1	15
113	Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts. <i>Nature Communications</i> , 2019, 10, 2001.	5.8	222
114	Boron ink assisted <i>in situ</i> boron nitride coatings for anti-oxidation and anti-corrosion applications. <i>Nanotechnology</i> , 2019, 30, 335704.	1.3	15
115	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX <sub>3</sub> Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1900276.	3.6	138
116	Highly sensitive detection and imaging of ultraviolet-B light for precisely controlling vitamin D generation in the human body. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4503-4508.	2.7	8
117	Perovskite <sup>2+</sup> Ion Beam Interactions: Toward Controllable Light Emission and Lasing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15756-15763.	4.0	38
118	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr <sub>3</sub> Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10564-10570.	1.5	37
119	Recent advances in Sb-based III <sup>2+</sup> V nanowires. <i>Nanotechnology</i> , 2019, 30, 212002.	1.3	8
120	Three-dimensional porous boron nitride foam for effective CO <sub>2</sub> adsorption. <i>Solid State Communications</i> , 2019, 294, 1-5.	0.9	18
121	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. <i>Nanoscale Advances</i> , 2019, 1, 4459-4465.	2.2	25
122	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. <i>Nanoscale</i> , 2019, 11, 20461-20466.	2.8	8
123	Photon <sup>2+</sup> Induced Reversible Phase Transition in CsPbBr <sub>3</sub> Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1807922.	7.8	56
124	Topologically protected states and half-metal behaviors: Defect-strain synergy effects in two-dimensional antimonene. <i>Physical Review Materials</i> , 2019, 3, .	0.9	7
125	Laser direct-writing electrode for rapid customization of a photodetector. <i>Optics Letters</i> , 2019, 44, 683.	1.7	4
126	Two-Dimensional Pnictogen for Field-Effect Transistors. <i>Research</i> , 2019, 2019, 1046329.	2.8	34



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127	Green laser irradiation-stimulated fullerene-like MoS <sub>2</sub> nanospheres for tribological applications. Tribology International, 2018, 122, 119-124.	3.0	23
128	Strongly anisotropic thermal conductivity and adequate breathability of bilayered films for heat management of on-skin electronics. 2D Materials, 2018, 5, 035013.	2.0	13
129	Ultrathin tellurium dioxide: emerging direct bandgap semiconductor with high-mobility transport anisotropy. Nanoscale, 2018, 10, 8397-8403.	2.8	66
130	Highly Efficient Carbon Dots with Reversibly Switchable Green-Red Emissions for Trichromatic White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 16005-16014.	4.0	147
131	Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. ACS Nano, 2018, 12, 1887-1893.	7.3	175
132	Porous silaphosphorene, silarsenene and silantimonene: a sweet marriage of Si and P/As/Sb. Journal of Materials Chemistry A, 2018, 6, 3738-3746.	5.2	14
133	Prediction on the physical properties of CuInS <sub>2</sub> with various anion positions. Current Applied Physics, 2018, 18, 304-309.	1.1	3
134	Ce <sup>3+</sup> -Doping to Modulate Photoluminescence Kinetics for Efficient CsPbBr <sub>3</sub> Nanocrystals Based Light-Emitting Diodes. Journal of the American Chemical Society, 2018, 140, 3626-3634.	6.6	442
135	Origin of green luminescence in carbon quantum dots: specific emission bands originate from oxidized carbon groups. New Journal of Chemistry, 2018, 42, 4603-4611.	1.4	58
136	Heterogeneous Nucleation toward Polar-Solvent-Free, Fast, and One-Pot Synthesis of Highly Uniform Perovskite Quantum Dots for Wider Color Gamut Display. Advanced Materials Interfaces, 2018, 5, 1800010.	1.9	49
137	DFT coupled with NEGF study of a promising two-dimensional channel material: black phosphorene-type GaTeCl. Nanoscale, 2018, 10, 3350-3355.	2.8	37
138	Broadband Nonlinear Photoresponse of 2D TiS <sub>2</sub> for Ultrashort Pulse Generation and All-Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	3.6	248
139	Boosting Two-Dimensional MoS <sub>2</sub> /CsPbBr <sub>3</sub> Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	4.0	207
140	Two-dimensional CsPbBr <sub>3</sub> /PCBM heterojunctions for sensitive, fast and flexible photodetectors boosted by charge transfer. Nanotechnology, 2018, 29, 085201.	1.3	33
141	Recent progress in 2D group-VA semiconductors: from theory to experiment. Chemical Society Reviews, 2018, 47, 982-1021.	18.7	697
142	Tribology Properties: Laser Irradiation-Induced SiC@Graphene Sub-Microspheres: A Bioinspired Core-Shell Structure for Enhanced Tribology Properties (Adv. Mater. Interfaces 5/2018). Advanced Materials Interfaces, 2018, 5, 1870021.	1.9	2
143	Zinc Stannate Nanocrystal-Based Ultrarapid-Response UV Photodetectors. Advanced Materials Technologies, 2018, 3, 1800085.	3.0	18
144	Identification of few-layer ReS <sub>2</sub> as photo-electro integrated catalyst for hydrogen evolution. Nano Energy, 2018, 48, 337-344.	8.2	71

#	ARTICLE	IF	CITATIONS
145	Fiber-Shaped ZnO/Graphene Schottky Photodetector with Strain Effect. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800136.	1.9	31
146	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. <i>Nanoscale</i> , 2018, 10, 7155-7162.	2.8	38
147	Room-Temperature Ion-Exchange-Mediated Self-Assembly toward Formamidinium Perovskite Nanoplates with Finely Tunable, Ultrapure Green Emissions for Achieving Rec. 2020 Displays. <i>Advanced Functional Materials</i> , 2018, 28, 1800248.	7.8	124
148	A Voltage-Boosting Strategy Enabling a Low-Frequency, Flexible Electromagnetic Wave Absorption Device. <i>Advanced Materials</i> , 2018, 30, e1706343.	11.1	691
149	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701662.	1.9	230
150	A versatile platform for the highly efficient preparation of graphene quantum dots: photoluminescence emission and hydrophilicity/hydrophobicity regulation and organelle imaging. <i>Nanoscale</i> , 2018, 10, 1532-1539.	2.8	27
151	Laser Irradiation-Induced SiC@Graphene Sub-Microspheres: A Bioinspired Core-Shell Structure for Enhanced Tribology Properties. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700839.	1.9	10
152	Perovskite photodetectors with both visible-infrared dual-mode response and super-narrowband characteristics towards photo-communication encryption application. <i>Nanoscale</i> , 2018, 10, 359-365.	2.8	32
153	<i>In situ</i> formation of CsPbBr <sub>3</sub> /ZnO bulk heterojunctions towards photodetectors with ultrahigh responsivity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12164-12169.	2.7	35
154	An Ångström-level <i>d</i> -spacing controlling synthetic route for MoS <sub>2</sub> towards stable intercalation of sodium ions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22513-22518.	5.2	24
155	Mechanistic Understanding of Two-Dimensional Phosphorus, Arsenic, and Antimony High-Capacity Anodes for Fast-Charging Lithium/Sodium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29559-29566.	1.5	38
156	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. <i>Nano Letters</i> , 2018, 18, 7628-7634.	4.5	180
157	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018, 1, .	2.0	59
158	Stable, Efficient Red Perovskite Light-Emitting Diodes by (±) CsPbI <sub>3</sub> Phase Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1804285.	7.8	105
159	Organic-Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48%. <i>Advanced Materials</i> , 2018, 30, e1805409.	11.1	409
160	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , 2018, 5, 4504-4512.	3.2	17
161	Enriching Hot Electrons via NIR-Photon-Excited Plasmon in WS <sub>2</sub> @Cu Hybrids for Full-Spectrum Solar Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018, 28, 1804055.	7.8	89
162	Self-assembly optimization of cadmium/molybdenum sulfide hybrids by cation coordination competition toward extraordinarily efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18396-18402.	5.2	22

#	ARTICLE	IF	CITATIONS
163	Space-Constrained Growth of CsPbBr <sub>3</sub> Film Achieving Photodetectors with High Performance in All Figures of Merit. <i>Advanced Functional Materials</i> , 2018, 28, 1804394.	7.8	108
164	A Perovskite Light-Emitting Device Driven by Low-Frequency Alternating Current Voltage. <i>Advanced Optical Materials</i> , 2018, 6, 1800206.	3.6	29
165	Giant antidamping orbital torque originating from the orbital Rashba-Edelstein effect in ferromagnetic heterostructures. <i>Nature Communications</i> , 2018, 9, 2569.	5.8	35
166	MoS <sub>2</sub> quantum dots-combined zirconium-metalloporphyrin frameworks: Synergistic effect on electron transfer and application for bioassay. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 566-573.	4.0	25
167	In Situ Passivation of PbBr <sub>6</sub> <sup>4-</sup> Octahedra toward Blue Luminescent CsPbBr <sub>3</sub> Nanoplatelets with Near 100% Absolute Quantum Yield. <i>ACS Energy Letters</i> , 2018, 3, 2030-2037.	8.8	402
168	A class of Pb-free double perovskite halide semiconductors with intrinsic ferromagnetism, large spin splitting and high Curie temperature. <i>Materials Horizons</i> , 2018, 5, 961-968.	6.4	59
169	Metal Halide Perovskites: Synthesis, Ion Migration, and Application in Field-Effect Transistors. <i>Small</i> , 2018, 14, e1801460.	5.2	88
170	Band offsets in new BN/BX (X = P, As, Sb) lateral heterostructures based on bond-orbital theory. <i>Nanoscale</i> , 2018, 10, 15918-15925.	2.8	18
171	Recent Advances in Group III-V Nanowire Infrared Detectors. <i>Advanced Optical Materials</i> , 2018, 6, 1800256.	3.6	43
172	Bubble dimer dynamics induced by dual laser beam ablation in liquid. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	18
173	Boosting the photoelectrochemical activities of all-inorganic perovskite SrTiO <sub>3</sub> nanofibers by engineering homo/hetero junctions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17530-17539.	5.2	13
174	MoS <sub>2</sub> nanoparticles coupled to SnS <sub>2</sub> nanosheets: The structural and electronic modulation for synergetic electrocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2018, 366, 8-15.	3.1	48
175	Functionalization of hexagonal boron nitride nanosheets and their copolymerized solid glasses. <i>2D Materials</i> , 2018, 5, 035036.	2.0	19
176	High-Efficiency Pure-Color Inorganic Halide Perovskite Emitters for Ultrahigh-Definition Displays: Progress for Backlighting Displays and Electrically Driven Devices. <i>Small Methods</i> , 2018, 2, 1700382.	4.6	47
177	Room-Temperature Triple-Ligand Surface Engineering Synergistically Boosts Ink Stability, Recombination Dynamics, and Charge Injection toward EQE~1.6% Perovskite QLEDs. <i>Advanced Materials</i> , 2018, 30, e1800764.	11.1	431
178	High-Performance Low-Voltage-Driven Phototransistors through CsPbBr <sub>3</sub> -2D Crystal van der Waals Heterojunctions. <i>Advanced Optical Materials</i> , 2018, 6, 1800152.	3.6	41
179	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , 2017, 129, 2430-2434.	1.6	28
180	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2390-2394.	7.2	80

#	ARTICLE	IF	CITATIONS
181	Perovskite nanocrystals: synthesis, properties and applications. <i>Science Bulletin</i> , 2017, 62, 369-380.	4.3	96
182	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. <i>Small</i> , 2017, 13, 1603996.	5.2	537
183	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , 2017, 11, 2015-2023.	7.3	274
184	Two-Dimensional Metal Halide Perovskites: Theory, Synthesis, and Optoelectronics. <i>Small Methods</i> , 2017, 1, 1600018.	4.6	115
185	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1605088.	7.8	242
186	Highly Flexible and Self-Healable Thermal Interface Material Based on Boron Nitride Nanosheets and a Dual Cross-Linked Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10078-10084.	4.0	107
187	Preparation and application of carbon-nanodot@NaCl composite phosphors with strong green emission. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 165-171.	5.0	47
188	All-inorganic quantum-dot light-emitting diodes based on perovskite emitters with low turn-on voltage and high humidity stability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4565-4570.	2.7	149
189	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. <i>Small</i> , 2017, 13, 1700364.	5.2	119
190	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible-Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , 2017, 5, 1700157.	3.6	244
191	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. <i>Nano Letters</i> , 2017, 17, 3434-3440.	4.5	250
192	Creating Carbon-Oxygen Bonds over TiO <sub>2</sub> Nanofibers for Synergistic Benefits of Visible-Light Response and Charge Separation toward Photocatalysis. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600795.	1.9	6
193	Universal liquid-phase laser fabrication of various nano-metals encapsulated by ultrathin carbon shells for deep-UV plasmonics. <i>Nanoscale</i> , 2017, 9, 8716-8722.	2.8	10
194	Van der Waals bilayer antimonene: A promising thermophotovoltaic cell material with 31% energy conversion efficiency. <i>Nano Energy</i> , 2017, 38, 561-568.	8.2	92
195	Enhanced Electrochemiluminescence of One-Dimensional Self-Assembled Porphyrin Hexagonal Nanoprisms. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20904-20912.	4.0	43
196	Dimensionality and Interface Engineering of 2D Homologous Perovskites for Boosted Charge-Carrier Transport and Photodetection Performances. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2565-2572.	2.1	77
197	An all-inkjet-printed flexible UV photodetector. <i>Nanoscale</i> , 2017, 9, 8580-8585.	2.8	49
198	Defect-Laden MoSe <sub>2</sub> Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. <i>Small</i> , 2017, 13, 1700565.	5.2	31

#	ARTICLE	IF	CITATIONS
199	Enhancement of adjustable localized surface plasmon resonance in ZnO nanocrystals via a dual doping approach. <i>Science Bulletin</i> , 2017, 62, 693-699.	4.3	16
200	Surface states engineering carbon dots as multi-band light active sensitizers for ZnO nanowire array photoanode to boost solar water splitting. <i>Carbon</i> , 2017, 121, 201-208.	5.4	38
201	Carbon quantum dots/Bi <sub>2</sub> MoO <sub>6</sub> composites with photocatalytic H <sub>2</sub> evolution and near infrared activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 24-31.	2.0	44
202	Boosting Fiber-Shaped Photodetectors via "Soft" Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12092-12099.	4.0	30
203	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5232-5236.	7.2	75
204	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie</i> , 2017, 129, 5316-5320.	1.6	12
205	Two-dimensional SiP: an unexplored direct band-gap semiconductor. <i>2D Materials</i> , 2017, 4, 015030.	2.0	78
206	Nanowire-based transparent conductors for flexible electronics and optoelectronics. <i>Science Bulletin</i> , 2017, 62, 143-156.	4.3	57
207	CuTCPP/BiPO <sub>4</sub> composite with enhanced visible light absorption and charge separation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 336, 25-31.	2.0	13
208	Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , 2017, 3, 1700401.	2.6	63
209	Wearable and visual pressure sensors based on Zn <sub>2</sub> GeO <sub>4</sub> @polypyrrole nanowire aerogels. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11018-11024.	2.7	34
210	Pyridine-Based Electron-Transport Materials with High Solubility, Excellent Film-Forming Ability, and Wettability for Inkjet-Printed OLEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38716-38727.	4.0	43
211	Defect-Induced Epitaxial Growth for Efficient Solar Hydrogen Production. <i>Nano Letters</i> , 2017, 17, 6676-6683.	4.5	96
212	High Performance Metal Halide Perovskite Light-Emitting Diode: From Material Design to Device Optimization. <i>Small</i> , 2017, 13, 1701770.	5.2	209
213	Recent progress of metal halide perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11369-11394.	2.7	138
214	Enhancing Optoelectronic Properties of Low-Dimensional Halide Perovskite via Ultrasonic-Assisted Template Refinement. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39602-39609.	4.0	12
215	Cd-free Cu <sup>2+</sup> /Zn <sup>2+</sup> /In <sup>3+</sup> /S/ZnS quantum dots@SiO <sub>2</sub> multiple cores nanostructure: preparation and application for white LEDs. <i>Nanotechnology</i> , 2017, 28, 435702.	1.3	12
216	Improving Wearable Photodetector Textiles via Precise Energy Level Alignment and Plasmonic Effect. <i>Advanced Electronic Materials</i> , 2017, 3, 1700281.	2.6	33

#	ARTICLE	IF	CITATIONS
217	Field-Effect Transistors Based on van-der-Waals-Grown and Dry-Transferred All-Inorganic Perovskite Ultrathin Platelets. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4785-4792.	2.1	91
218	Quantum confinement effect of two-dimensional all-inorganic halide perovskites. <i>Science China Materials</i> , 2017, 60, 811-818.	3.5	38
219	Steering Photoelectrons Excited in Carbon Dots into Platinum Cluster Catalyst for Solar-Driven Hydrogen Production. <i>Advanced Science</i> , 2017, 4, 1700273.	5.6	39
220	Simple and Fast Patterning Process by Laser Direct Writing for Perovskite Quantum Dots. <i>Advanced Materials Technologies</i> , 2017, 2, 1700132.	3.0	55
221	Highly stable and flexible photodetector arrays based on low dimensional CsPbBr <sub>3</sub> microcrystals and on-paper pencil-drawn electrodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7441-7445.	2.7	51
222	Cation Exchange-Induced Dimensionality Construction: From Monolayered to Multilayered 2D Single Crystal Halide Perovskites. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700441.	1.9	38
223	Double-Protected All-Inorganic Perovskite Nanocrystals by Crystalline Matrix and Silica for Triple-Modal Anti-Counterfeiting Codes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26556-26564.	4.0	232
224	Solution-Grown CsPbBr <sub>3</sub> /Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite Nanocomposites: Toward Temperature-Insensitive Optical Gain. <i>Small</i> , 2017, 13, 1701587.	5.2	134
225	ZrO <sub>2</sub> quantum dots/graphene phototransistors for deep UV detection. <i>Materials Research Bulletin</i> , 2017, 96, 458-462.	2.7	23
226	Stabilizing Cesium Lead Halide Perovskite Lattice through Mn(II) Substitution for Air-Stable Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 11443-11450.	6.6	705
227	Amino-Mediated Anchoring Perovskite Quantum Dots for Stable and Low-Threshold Random Lasing. <i>Advanced Materials</i> , 2017, 29, 1701185.	11.1	269
228	Controlled Synthesis of Ultrathin 2D In <sub>2</sub> S <sub>3</sub> with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1702448.	7.8	194
229	Carbon Quantum Dots/Bi <sub>2</sub> WO <sub>6</sub> Composites for Efficient Photocatalytic Pollutant Degradation and Hydrogen Evolution. <i>Nano</i> , 2017, 12, 1750082.	0.5	19
230	Metallic oxide nanocrystals with near-infrared plasmon resonance for efficient, stable and biocompatible photothermal cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7393-7402.	2.9	25
231	Triangle-, tripod-, and tetrapod-branched ITO nanocrystals for anisotropic infrared plasmonics. <i>Nanoscale</i> , 2017, 9, 19374-19383.	2.8	10
232	Capping CsPbBr <sub>3</sub> with ZnO to improve performance and stability of perovskite memristors. <i>Nano Research</i> , 2017, 10, 1584-1594.	5.8	134
233	Probing mesoscopic process of laser ablation in liquid by integrated method of optical beam deflection and time-resolved shadowgraphy. <i>Journal of Colloid and Interface Science</i> , 2017, 489, 38-46.	5.0	16
234	From unstable CsSnI <sub>3</sub> to air-stable Cs <sub>2</sub> SnI <sub>6</sub> : A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 227-234.	3.0	388

#	ARTICLE	IF	CITATIONS
235	Assembling tungsten oxide hydrate nanocrystal colloids formed by laser ablation in liquid into fast-response electrochromic films. <i>Journal of Colloid and Interface Science</i> , 2017, 489, 85-91.	5.0	17
236	Organic-inorganic halide perovskite solar cell with CH <sub>3</sub> NH <sub>3</sub> PbI <sub>2</sub> Br as hole conductor. <i>Journal of Power Sources</i> , 2017, 339, 61-67.	4.0	33
237	50% Fold EQE Improvement up to 6.27% of Solution-Processed All-Inorganic Perovskite CsPbBr <sub>3</sub> QLEDs via Surface Ligand Density Control. <i>Advanced Materials</i> , 2017, 29, 1603885.	11.1	982
238	Hydrothermal synthesis of Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> : Eu <sup>3+</sup> phosphors with high thermal stability and enhanced photoluminescence property. <i>Journal of Alloys and Compounds</i> , 2017, 693, 308-314.	2.8	31
239	Quasi 2D Mesoporous Carbon Microbelts Derived from Fullerene Crystals as an Electrode Material for Electrochemical Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44458-44465.	4.0	57
240	Optically tunable Quincke rotation of a nanometer-thin oblate spheroid. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	4
241	Anomalous plasmon resonance from confined diffusive charges: high quality and tunability from mid to far infrared wavebands. <i>Optics Express</i> , 2016, 24, 29908.	1.7	10
242	Tunable electronic structure and enhanced optical properties in quasi-metallic hydrogenated/fluorinated SiC heterobilayer. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7406-7414.	2.7	27
243	Healing All-Inorganic Perovskite Films via Recyclable Dissolution-Recrystallization for Compact and Smooth Carrier Channels of Optoelectronic Devices with High Stability. <i>Advanced Functional Materials</i> , 2016, 26, 5903-5912.	7.8	296
244	Toward Efficient Orange Emissive Carbon Nanodots through Conjugated sp <sup>2</sup> -Domain Controlling and Surface Charges Engineering. <i>Advanced Materials</i> , 2016, 28, 3516-3521.	11.1	583
245	Surface Superoxide Complex Defects-Boosted Ultrasensitive ppb-Level NO <sub>2</sub> Gas Sensors. <i>Small</i> , 2016, 12, 1420-1424.	5.2	62
246	Progress of Carbon Quantum Dots in Photocatalysis Applications. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 457-472.	1.2	172
247	Strain Driven Spectral Broadening of Pb Ion Exchanged CdS Nanowires. <i>Small</i> , 2016, 12, 874-881.	5.2	55
248	Semiconducting Group-V Monolayers: A Broad Range of Band Gaps and High Carrier Mobilities. <i>Angewandte Chemie</i> , 2016, 128, 1698-1701.	1.6	315
249	Ternary Oxide Nanocrystals: Universal Laser-Hydrothermal Synthesis, Optoelectronic and Electrochemical Applications. <i>Advanced Functional Materials</i> , 2016, 26, 5051-5060.	7.8	58
250	CuO/ZnO memristors via oxygen or metal migration controlled by electrodes. <i>AIP Advances</i> , 2016, 6, .	0.6	14
251	High-efficiency laser-irradiation spheroidizing of NiCo <sub>2</sub> O <sub>4</sub> nanomaterials. <i>Optoelectronics Letters</i> , 2016, 12, 401-404.	0.4	0
252	Zirconium-metalloporphyrin frameworks as a three-in-one platform possessing oxygen nanocage, electron media, and bonding site for electrochemiluminescence protein kinase activity assay. <i>Nanoscale</i> , 2016, 8, 11649-11657.	2.8	64

#	ARTICLE	IF	CITATIONS
253	Two-dimensional GeS with tunable electronic properties via external electric field and strain. <i>Nanotechnology</i> , 2016, 27, 274001.	1.3	85
254	Lateral black phosphorene Pâ€N junctions formed via chemical doping for high performance near-infrared photodetector. <i>Nano Energy</i> , 2016, 25, 34-41.	8.2	162
255	Enriching Photoelectrons via Three Transition Channels in Amino-Conjugated Carbon Quantum Dots to Boost Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14118-14124.	4.0	57
256	Remediating Defects in Carbon Nitride To Improve both Photooxidation and H <sub>2</sub> Generation Efficiencies. <i>ACS Catalysis</i> , 2016, 6, 3365-3371.	5.5	148
257	A promising two-dimensional solar cell donor: Black arsenicâ€phosphorus monolayer with 1.54 eV direct bandgap and mobility exceeding 14,000 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Nano Energy</i> , 2016, 28, 433-439.	8.2	212
258	Self-powered fiber-shaped wearable omnidirectional photodetectors. <i>Nano Energy</i> , 2016, 30, 173-179.	8.2	82
259	Photon Driven Transformation of Cesium Lead Halide Perovskites from Fewâ€Monolayer Nanoplatelets to Bulk Phase. <i>Advanced Materials</i> , 2016, 28, 10637-10643.	11.1	130
260	Supercapacitor based on few-layer MoO <sub>3</sub> nanosheets prepared by solvothermal method. <i>International Journal of Nanomanufacturing</i> , 2016, 12, 404.	0.3	10
261	A comprehensive investigation on CVD growth thermokinetics of h-BN white graphene. <i>2D Materials</i> , 2016, 3, 035007.	2.0	31
262	Influences of the Pb 6s <sup>2</sup> lone pair effect and quantum size effect on the diffusion of oxygen atoms on Pb(111) films. <i>RSC Advances</i> , 2016, 6, 78755-78761.	1.7	1
263	A Targeted â€Captureâ€ and â€Removalâ€ Scavenger toward Multiple Pollutants for Water Remediation based on Molecular Recognition. <i>Advanced Science</i> , 2016, 3, 1500289.	5.6	31
264	Water Splitting: A Targeted â€Captureâ€ and â€Removalâ€ Scavenger toward Multiple Pollutants for Water Remediation based on Molecular Recognition (Adv. Sci. 3/2016). <i>Advanced Science</i> , 2016, 3, .	5.6	1
265	Approaching the Theoretical Capacity of Li <sub>3</sub> VO <sub>4</sub> via Electrochemical Reconstruction. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500340.	1.9	97
266	A promising two-dimensional channel material: monolayer antimonide phosphorus. <i>Science China Materials</i> , 2016, 59, 648-656.	3.5	28
267	One-pot synthesis of nitrogen-rich carbon dots decorated graphene oxide as metal-free electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2016, 109, 402-410.	5.4	96
268	Al plasmon-enhanced diamond solar-blind UV photodetector by coupling of plasmon and excitons. <i>Materials Technology</i> , 2016, 31, 544-547.	1.5	24
269	The structural, electrical and optical properties of Mg-doped ZnO with different interstitial Mg concentration. <i>Materials Chemistry and Physics</i> , 2016, 182, 15-21.	2.0	35
270	Improving Allâ€Inorganic Perovskite Photodetectors by Preferred Orientation and Plasmonic Effect. <i>Small</i> , 2016, 12, 5622-5632.	5.2	314



#	ARTICLE	IF	CITATIONS
271	Hydrothermal synthesis of blue-fluorescent monolayer BN and BCNO quantum dots for bio-imaging probes. RSC Advances, 2016, 6, 79090-79094.	1.7	66
272	Localized Surface Plasmon Resonance arising from the diffusive electrons in a semiconductor core-shell structure. , 2016, , .		0
273	Nickel concentration-dependent opto-electrical performances and stability of Cu@CuNi nanowire transparent conductors. RSC Advances, 2016, 6, 91394-91400.	1.7	19
274	Semiconductor-topological insulator transition of two-dimensional SbAs induced by biaxial tensile strain. Physical Review B, 2016, 93, .	1.1	118
275	Smooth and solid WS <sub>2</sub> submicrospheres grown by a new laser fragmentation and reshaping process with enhanced tribological properties. Chemical Communications, 2016, 52, 10147-10150.	2.2	33
276	Two-dimensional antimonene single crystals grown by van der Waals epitaxy. Nature Communications, 2016, 7, 13352.	5.8	798
277	New Ferroelectric Phase in Atomic-Thick Phosphorene Nanoribbons: Existence of in-Plane Electric Polarization. Nano Letters, 2016, 16, 8015-8020.	4.5	55
278	Rapid and High-Efficiency Laser-Alloying Formation of ZnMgO Nanocrystals. Scientific Reports, 2016, 6, 28131.	1.6	15
279	Nonlinear Saturable Absorption of Liquid-Exfoliated Molybdenum/Tungsten DiteLLuride Nanosheets. Small, 2016, 12, 1489-1497.	5.2	211
280	Monolayer and Few-Layer All-Inorganic Perovskites as a New Family of Two-Dimensional Semiconductors for Printable Optoelectronic Devices. Advanced Materials, 2016, 28, 4861-4869.	11.1	614
281	Amorphous FeOOH Quantum Dots Assembled Mesoporous Film Anchored on Graphene Nanosheets with Superior Electrochemical Performance for Supercapacitors. Advanced Functional Materials, 2016, 26, 919-930.	7.8	423
282	Fabrication and formation mechanism of p-type lithium niobate crystals by molybdenum doping and polarization. Journal of Materials Science: Materials in Electronics, 2016, 27, 5886-5891.	1.1	3
283	Two-dimensional BX (X = P, As, Sb) semiconductors with mobilities approaching graphene. Nanoscale, 2016, 8, 13407-13413.	2.8	122
284	Near-Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. Advanced Functional Materials, 2016, 26, 1793-1802.	7.8	114
285	CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Room-Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Light-Emitting Diodes. Advanced Functional Materials, 2016, 26, 2435-2445.	7.8	2,055
286	Quantum Dots: CsPbX <sub>3</sub> Quantum Dots for Lighting and Displays: Room-Temperature Synthesis, Photoluminescence Superiorities, Underlying Origins and White Light-Emitting Diodes (Adv.) Tj ETQq0708 rgBT /s/overlock 1	7.8	2080
287	Semiconducting Group-15 Monolayers: A Broad Range of Band Gaps and High Carrier Mobilities. Angewandte Chemie - International Edition, 2016, 55, 1666-1669.	7.2	651
288	Monolayer MoS <sub>2</sub> "Graphene Hybrid Aerogels with Controllable Porosity for Lithium-Ion Batteries with High Reversible Capacity. ACS Applied Materials & Interfaces, 2016, 8, 2680-2687.	4.0	191

#	ARTICLE	IF	CITATIONS
289	N- and p-type doping of antimonene. RSC Advances, 2016, 6, 14620-14625.	1.7	57
290	P3HT/Bi <sub>2</sub> MoO <sub>6</sub> heterojunction with enhanced photocatalytic activity. Materials Letters, 2016, 164, 640-643.	1.3	24
291	Improvement and luminescent mechanism of Bi <sub>4</sub> Si <sub>3</sub> O <sub>12</sub> scintillation crystals by Dy <sup>3+</sup> doping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 807, 1-4.	0.7	13
292	Nonlinear Absorption and Low-Threshold Multiphoton Pumped Stimulated Emission from All-Inorganic Perovskite Nanocrystals. Nano Letters, 2016, 16, 448-453.	4.5	494
293	Amorphous ZnO based resistive random access memory. RSC Advances, 2016, 6, 17867-17872.	1.7	109
294	Polyhedral Zn <sub>2</sub> SnO <sub>4</sub> : Synthesis, enhanced gas sensing and photocatalytic performance. Sensors and Actuators B: Chemical, 2016, 229, 627-634.	4.0	86
295	Polythiophene/Bi <sub>2</sub> MoO <sub>6</sub> : A novel conjugated polymer/nanocrystal hybrid composite for photocatalysis. Journal of Materials Science, 2016, 51, 3846-3853.	1.7	27
296	<i>A Special Section on</i> Hierarchically Nanostructured Materials for Environmental and Energy Applications. Science of Advanced Materials, 2016, 8, 1227-1230.	0.1	0
297	A General Oneâ€Pot Strategy for the Synthesis of Highâ€Performance Transparentâ€Conductingâ€Oxide Nanocrystal Inks for Allâ€Solutionâ€Processed Devices. Angewandte Chemie - International Edition, 2015, 54, 462-466.	7.2	52
298	Nanosensors: A High-Performance Nitro-Explosives Schottky Sensor Boosted by Interface Modulation (Adv. Funct. Mater. 26/2015). Advanced Functional Materials, 2015, 25, 4038-4038.	7.8	0
299	Nanocrystals: Quantum Dot Lightâ€Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ) (Adv. Mater. 44/2015). Advanced Materials, 2015, 27, 7161-7161.	11.1	23
300	GeSe monolayer semiconductor with tunable direct band gap and small carrier effective mass. Applied Physics Letters, 2015, 107, .	1.5	148
301	WS <sub>2</sub> saturable absorber for dissipative soliton mode locking at 106 and 155 Åµm. Optics Express, 2015, 23, 27509.	1.7	187
302	A Highâ€Performance Nitroâ€Explosives Schottky Sensor Boosted by Interface Modulation. Advanced Functional Materials, 2015, 25, 4039-4048.	7.8	67
303	Carbon and Graphene Quantum Dots for Optoelectronic and Energy Devices: A Review. Advanced Functional Materials, 2015, 25, 4929-4947.	7.8	1,072
304	Quantum Dot Lightâ€Emitting Diodes Based on Inorganic Perovskite Cesium Lead Halides (CsPbX <sub>3</sub> ). Advanced Materials, 2015, 27, 7162-7167.	11.1	2,457
305	Allâ€Inorganic Colloidal Perovskite Quantum Dots: A New Class of Lasing Materials with Favorable Characteristics. Advanced Materials, 2015, 27, 7101-7108.	11.1	1,095
306	Transparent Electrodes Printed with Nanocrystal Inks for Flexible Smart Devices. Angewandte Chemie - International Edition, 2015, 54, 9760-9774.	7.2	135

#	ARTICLE	IF	CITATIONS
307	Cu <sup>2+</sup> /N Dopants Boost Electron Transfer and Photooxidation Reactions of Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6540-6544.	7.2	244
308	MgZnO Nanocrystals: Mechanism for Dopant-Induced Self-Assembly. <i>Small</i> , 2015, 11, 5097-5104.	5.2	12
309	In situ electron beam irradiation-driven formation of quantum dots. <i>RSC Advances</i> , 2015, 5, 25717-25722.	1.7	5
310	Ag/white graphene foam for catalytic oxidation of methanol with high efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6679-6684.	5.2	28
311	2D materials via liquid exfoliation: a review on fabrication and applications. <i>Science Bulletin</i> , 2015, 60, 1994-2008.	4.3	270
312	Enhancing the charge separation and migration efficiency of Bi <sub>2</sub> WO <sub>6</sub> by hybridizing the P3HT conducting polymer. <i>RSC Advances</i> , 2015, 5, 99658-99663.	1.7	13
313	Structural and electronic properties of atomically thin germanium selenide polymorphs. <i>Science China Materials</i> , 2015, 58, 929-935.	3.5	54
314	The impact of Mg content on the structural, electrical and optical properties of MgZnO alloys: A first principles study. <i>Current Applied Physics</i> , 2015, 15, 423-428.	1.1	52
315	Comment on "Strongly luminescent monolayered MoS <sub>2</sub> prepared by effective ultrasound exfoliation" [ <i>Nanoscale</i> , 2013, 5, 3387]. <i>Nanoscale</i> , 2015, 7, 4580-4583.	2.8	13
316	Atomically Thin Arsenene and Antimonene: Semimetal-Semiconductor and Indirect-Direct Bandgap Transitions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3112-3115.	7.2	1,211
317	Atomically Thin Arsenene and Antimonene: Semimetal-Semiconductor and Indirect-Direct Bandgap Transitions. <i>Angewandte Chemie</i> , 2015, 127, 3155-3158.	1.6	397
318	An insight into defect relaxation in metastable ZnO reflected by a unique luminescence and Raman evolutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19637-19642.	1.3	22
319	Optimizing Hybridization of 1T and 2H Phases in MoS <sub>2</sub> Monolayers to Improve Capacitances of Supercapacitors. <i>Materials Research Letters</i> , 2015, 3, 177-183.	4.1	149
320	Å-Resolution: A General One-Pot Strategy for the Synthesis of High-Performance Transparent-Conducting-Oxide Nanocrystal Inks for All-Solution-Processed Devices ( <i>Angew. Chem.</i> ) Tj ETQq0 0 0 rgB /Overlap 10 Tf 5		
321	ZnO nanowire lines and bundles: Template-deformation-guided alignment for patterned field-electron emitters. <i>Current Applied Physics</i> , 2015, 15, 1296-1302.	1.1	6
322	3D white graphene foam scavengers: vesicant-assisted foaming boosts the gram-level yield and forms hierarchical pores for superstrong pollutant removal applications. <i>NPG Asia Materials</i> , 2015, 7, e168-e168.	3.8	57
323	Integrating large specific surface area and high conductivity in hydrogenated NiCo <sub>2</sub> O <sub>4</sub> double-shell hollow spheres to improve supercapacitors. <i>NPG Asia Materials</i> , 2015, 7, e165-e165.	3.8	177
324	Tinene: a two-dimensional Dirac material with a 72 meV band gap. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12634-12638.	1.3	66

#	ARTICLE	IF	CITATIONS
325	Hemi-Shell Arrays Harvesting Ultra-Broadband Light. <i>Advanced Optical Materials</i> , 2015, 3, 931-936.	3.6	8
326	Two-Dimensional, Porous Nickel-Cobalt Sulfide for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19316-19323.	4.0	234
327	Noncovalent Molecular Doping of Two-Dimensional Materials. <i>ChemNanoMat</i> , 2015, 1, 542-557.	1.5	41
328	Hydrogenated arsenenes as planar magnet and Dirac material. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	137
329	Localized surface plasmon resonance of Cu nanoparticles by laser ablation in liquid media. <i>RSC Advances</i> , 2015, 5, 79738-79745.	1.7	101
330	Modulating the phase transition between metallic and semiconducting single-layer MoS <sub>2</sub> and WS <sub>2</sub> through size effects. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1099-1105.	1.3	38
331	Flexible quantum dot-PVA composites for white LEDs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 257-264.	2.7	41
332	Forchlorfenuron detection based on its inhibitory effect towards catalase immobilized on boron nitride substrate. <i>Biosensors and Bioelectronics</i> , 2015, 63, 294-300.	5.3	38
333	Intercrossed Carbon Nanorings with Pure Surface States as Low-Cost and Environment-Friendly Phosphors for White-Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1759-1764.	7.2	238
334	Metal Oxide Heterostructures for Water Purification. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	1.5	3
335	Mesoporous Alumina Microfibers In Situ Transformation from AACH Fibers and the Adsorption Performance. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	12
336	Controlling oxygen vacancies and properties of ZnO. <i>Current Applied Physics</i> , 2014, 14, 521-527.	1.1	42
337	Interband ĩ plasmon of graphene: strong small-size and field-enhancement effects. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23483-23491.	1.3	17
338	Superstable Transparent Conductive Cu@Cu <sub>4</sub> Ni Nanowire Elastomer Composites against Oxidation, Bending, Stretching, and Twisting for Flexible and Stretchable Optoelectronics. <i>Nano Letters</i> , 2014, 14, 6298-6305.	4.5	262
339	Unipolar resistive switching of ZnO-single-wire memristors. <i>Nanoscale Research Letters</i> , 2014, 9, 381.	3.1	22
340	Engineering surface states of carbon dots to achieve controllable luminescence for solid-luminescent composites and sensitive Be <sup>2+</sup> detection. <i>Scientific Reports</i> , 2014, 4, .	1.6	544
341	Weak morphology dependent valence band structure of boron nitride. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	16
342	Epitaxial ZnO Nanowire-on-Nanoplate Structures as Efficient and Transferable Field Emitters. <i>Advanced Materials</i> , 2013, 25, 5750-5755.	11.1	111

#	ARTICLE	IF	CITATIONS
343	Field Emitters: Epitaxial ZnO Nanowire-on-Nanoplate Structures as Efficient and Transferable Field Emitters (Adv. Mater. 40/2013). Advanced Materials, 2013, 25, 5678-5678.	11.1	2
344	Strong room-temperature ferromagnetism of pure ZnO nanostructure arrays via colloidal template. Journal of Materials Chemistry C, 2013, 1, 6807.	2.7	32
345	Two-dimensional semiconductors: recent progress and future perspectives. Journal of Materials Chemistry C, 2013, 1, 2952.	2.7	317
346	ZnO-Based Transparent Conductive Thin Films: Doping, Performance, and Processing. Journal of Nanomaterials, 2013, 2013, 1-9.	1.5	83
347	Self-Assembly of Semiconductor Metal Oxide Nanostructures. Journal of Nanomaterials, 2013, 2013, 1-2.	1.5	2
348	Multiexciton Generation in Semiconductor Nanocrystals: A Potential Avenue Toward Efficient Solar Cells. Science of Advanced Materials, 2013, 5, 1585-1595.	0.1	4
349	<I>A Special Section on</I> ZnO Nanostructures: Growth and Applications. Journal of Nanoengineering and Nanomanufacturing, 2013, 3, 281-282.	0.3	0
350	General synthetic strategy for high-yield and uniform rare-earth oxysulfate (RE <sub>2</sub> O <sub>2</sub> SO <sub>4</sub> , RE = La, Pr, Nd). Tj ETQq0 0,0,rgBT /Overlock 10	1.7	27
351	Deep-Ultravioletâ€“Blue-Light Surface Plasmon Resonance of Al and Al<sub>core</sub>/Al<sub>2</sub>O<sub>3</sub>shell</sub> in Spherical and Cylindrical Nanostructures. Journal of Physical Chemistry C, 2012, 116, 15584-15590.	1.5	58
352	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. Advanced Materials, 2012, 24, 5598-5603.	11.1	65
353	Photoacoustic Spectroscopy and Its Applications in Characterization of Nanomaterials. , 2012, , 621-649.		0
354	Hybrid Architectures: Spherical Au Nanoparticles on Cubic AgCl Sub-Micrometer Particles. Science of Advanced Materials, 2012, 4, 449-454.	0.1	2
355	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. Advanced Functional Materials, 2012, 22, 1333-1353.	7.8	775
356	Nanomaterial Engineering and Property Studies in a Transmission Electron Microscope. Advanced Materials, 2012, 24, 177-194.	11.1	43
357	Understanding and Using the Controller Area Network Communication Protocol. , 2012, ,		88
358	A Special Issue on Nanomaterials by Laser Processing. Science of Advanced Materials, 2012, 4, 365-367.	0.1	1
359	Nanomaterials and Nanopatterns Based on Laser Processing: A Brief Review on Current State of Art. Science of Advanced Materials, 2012, 4, 368-390.	0.1	30
360	&lt;l&gt;A Special Issue on&lt;l&gt; Advanced Nanomaterials for Renewable Energy Applications. Reviews in Advanced Sciences and Engineering, 2012, 2, 1-2.	0.6	0

#	ARTICLE	IF	CITATIONS
361	Janus particle arrays with multiple structural controlling abilities synthesized by seed-directed deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 11930.	6.7	18
362	Reshaping Formation and Luminescence Evolution of ZnO Quantum Dots by Laser-Induced Fragmentation in Liquid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5038-5043.	1.5	70
363	Structural Transformation, Photocatalytic, and Field-Emission Properties of Ridged TiO <sub>2</sub> Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1352-1358.	4.0	59
364	Polystyrene sphere-assisted one-dimensional nanostructure arrays: synthesis and applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 40-56.	6.7	151
365	Biomolecule-assisted in situ route toward 3D superhydrophilic Ag/CuO micro/nanostructures with excellent artificial sunlight self-cleaning performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 7281.	6.7	39
366	Luminescent hollow carbon shells and fullerene-like carbon spheres produced by laser ablation with toluene. <i>Journal of Materials Chemistry</i> , 2011, 21, 4432.	6.7	87
367	A General Strategy for Fabricating Unique Carbide Nanostructures with Excitation Wavelength-Dependent Light Emissions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7279-7284.	1.5	30
368	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21056-21062.	1.5	92
369	Influences of Target and Liquid Media on Morphologies and Optical Properties of ZnO Nanoparticles Prepared by Laser Ablation in Solution. <i>Journal of the American Ceramic Society</i> , 2011, 94, 4305-4309.	1.9	18
370	Enhanced photocatalytic activity of hierarchical ZnO nanoplate-nanowire architecture as environmentally safe and facilely recyclable photocatalyst. <i>Nanoscale</i> , 2011, 3, 5020.	2.8	148
371	Tube-in-Tube TiO <sub>2</sub> Nanotubes with Porous Walls: Fabrication, Formation Mechanism, and Photocatalytic Properties. <i>Small</i> , 2011, 7, 445-449.	5.2	101
372	Chemical Blowing of Thin-Walled Bubbles: High-Throughput Fabrication of Large-Area, Few-Layered BN and C <sub>x</sub> Nanosheets. <i>Advanced Materials</i> , 2011, 23, 4072-4076.	11.1	217
373	Fabrication of VO <sub>2</sub> (B) Nanobelts and Their Application in Lithium Ion Batteries. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-4.	1.5	17
374	Optical Study of the Reduction of Hexavalent Chromium by Iron-Based Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5389-5392.	0.9	6
375	Evolution of Surface Plasmon Resonance for Silver Particle Film on Mesoporous SiO <sub>2</sub> and Soda-Lime Glass During Heating in Air and H <sub>2</sub> . <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5369-5373.	0.9	4
376	Recent Advances in Boron Nitride Nanotubes and Nanosheets. <i>Israel Journal of Chemistry</i> , 2010, 50, 405-416.	1.0	24
377	Blue Luminescence of ZnO Nanoparticles Based on Non-Equilibrium Processes: Defect Origins and Emission Controls. <i>Advanced Functional Materials</i> , 2010, 20, 561-572.	7.8	1,540
378	Self-assembled ZnS nanowire arrays: synthesis, in situ Cu doping and field emission. <i>Nanotechnology</i> , 2010, 21, 375601.	1.3	27

#	ARTICLE	IF	CITATIONS
379	Vapor-phase synthesis of one-dimensional ZnS, CdS, and ZnxCd1-xS nanostructures. <i>Pure and Applied Chemistry</i> , 2010, 82, 2027-2053.	0.9	23
380	Fluorescent sensing of colloidal CePO <sub>4</sub> :Tb nanorods for rapid, ultrasensitive and selective detection of vitamin C. <i>Nanotechnology</i> , 2010, 21, 365501.	1.3	53
381	White Graphenes: Boron Nitride Nanoribbons via Boron Nitride Nanotube Unwrapping. <i>Nano Letters</i> , 2010, 10, 5049-5055.	4.5	723
382	Bioinspired synthesis of well faceted CuI nanostructures and evaluation of their catalytic performance for coupling reactions. <i>Green Chemistry</i> , 2010, 12, 1442.	4.6	24
383	One-Dimensional Nanostructures in Porous Anodic Alumina Membranes. <i>Science of Advanced Materials</i> , 2010, 2, 273-294.	0.1	35
384	Electrochemical Deposition of ZnO Nanowire Arrays: Organization, Doping, and Properties. <i>Science of Advanced Materials</i> , 2010, 2, 336-358.	0.1	62
385	Laser power effect on morphology and photoluminescence of ZnO nanostructures by laser ablation in water. <i>Materials Letters</i> , 2009, 63, 191-193.	1.3	19
386	Characterization, Cathodoluminescence, and Field-Emission Properties of Morphology-Tunable CdS Micro/Nanostructures. <i>Advanced Functional Materials</i> , 2009, 19, 2423-2430.	7.8	114
387	Template Deformation-Tailored ZnO Nanorod/Nanowire Arrays: Full Growth Control and Optimization of Field-Emission. <i>Advanced Functional Materials</i> , 2009, 19, 3165-3172.	7.8	224
388	Controllable Polyol Synthesis of Uniform Palladium Icosahedra: Effect of Twinned Structure on Deformation of Crystalline Lattices. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6883-6887.	7.2	114
389	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2009, 34, 190-223.	6.8	306
390	Ultra-fine $\beta$ -SiC quantum dots fabricated by laser ablation in reactive liquid at room temperature and their violet emission. <i>Journal of Materials Chemistry</i> , 2009, 19, 7119.	6.7	79
391	Dramatic excitation dependence of strong and stable blue luminescence of ZnO hollow nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, 191904.	1.5	38
392	Optical Study of Redox Behavior of Silicon Nanoparticles Induced by Laser Ablation in Liquid. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6480-6484.	1.5	39
393	From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7692-7696.	1.5	44
394	Smart and Reversible Surface Plasmon Resonance Responses to Various Atmospheres for Silver Nanoparticles Loaded in Mesoporous SiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 19039-19045.	1.5	26
395	General and Simple Route to Micro/Nanostructured Hollow-Sphere Arrays Based on Electrophoresis of Colloids Induced by Laser Ablation in Liquid. <i>Langmuir</i> , 2009, 25, 8287-8291.	1.6	39
396	Size and Structure Control of Si Nanoparticles by Laser Ablation in Different Liquid Media and Further Centrifugation Classification. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19091-19095.	1.5	112

#	ARTICLE	IF	CITATIONS
397	Transferrable Superhydrophobic Surface Constructed by a Hexagonal CuI Powder without Modification by Low-Free-Energy Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2080-2085.	4.0	19
398	Electrodeposition Growth of Vertical ZnO Nanorod/Polyaniline Heterostructured Films and Their Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15544-15547.	1.5	28
399	Room temperature synthesized rutile TiO <sub>2</sub> nanoparticles induced by laser ablation in liquid and their photocatalytic activity. <i>Nanotechnology</i> , 2009, 20, 285707.	1.3	103
400	Morphology-Dependent Stimulated Emission and Field Emission of Ordered CdS Nanostructure Arrays. <i>ACS Nano</i> , 2009, 3, 949-959.	7.3	185
401	A Comprehensive Review of One-Dimensional Metal-Oxide Nanostructure Photodetectors. <i>Sensors</i> , 2009, 9, 6504-6529.	2.1	491
402	Morphology Dependent Magnetic Properties of Two-Dimensional $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Ordered Nanostructured Arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2970-2975.	0.9	7
403	ZnO-Based Hollow Nanoparticles by Selective Etching: Elimination and Reconstruction of Metal-Semiconductor Interface, Improvement of Blue Emission and Photocatalysis. <i>ACS Nano</i> , 2008, 2, 1661-1670.	7.3	530
404	Single-crystal snowflake of Cu <sub>7</sub> S <sub>4</sub> : Low temperature, large scale synthesis and growth mechanism. <i>Materials Letters</i> , 2008, 62, 2567-2570.	1.3	13
405	Fabrication and Size-Dependent Optical Properties of FeO Nanoparticles Induced by Laser Ablation in a Liquid Medium. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3261-3266.	1.5	105
406	Controllable Pt/ZnO Porous Nanocages with Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19620-19624.	1.5	157
407	Ordered n-type ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2008, 92, 132112.	1.5	61
408	Hydrothermal Synthesis of Single-Crystal Szaibelyite MgBO <sub>2</sub> (OH) Nanobelt as a New Host Material for Red-Emitting Rare-Earth Ions. <i>Chemistry of Materials</i> , 2008, 20, 250-257.	3.2	40
409	Synthesis and Growth Discussion of One-Dimensional MgO Nanostructures: Nanowires, Nanobelts, and Nanotubes in VLS Mechanism. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10412-10417.	1.5	54
410	Large Scale Fabrication of Quasi-Aligned ZnO Stacking Nanoplates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5267-5270.	1.5	74
411	Polar-Field-Induced Double-Layer Nanostructured ZnO and Its Strong Violet Photoluminescence. <i>Crystal Growth and Design</i> , 2008, 8, 4367-4371.	1.4	36
412	Polycrystalline Si nanoparticles and their strong aging enhancement of blue photoluminescence. <i>Journal of Applied Physics</i> , 2008, 104, 023516.	1.1	49
413	Tunable synthesis of In <sub>2</sub> O <sub>3</sub> nanowires, nanoarrows and nanorods. <i>Nanotechnology</i> , 2007, 18, 175601.	1.3	40
414	Evolution of the optical spectra of an Ag/mesoporous SiO <sub>2</sub> nanostructure heat-treated in air and H <sub>2</sub> atmospheres. <i>Nanotechnology</i> , 2007, 18, 185710.	1.3	20



#	ARTICLE	IF	CITATIONS
415	Aging-Induced Self-Assembly of Zn/ZnO Treelike Nanostructures from Nanoparticles and Enhanced Visible Emission. <i>Crystal Growth and Design</i> , 2007, 7, 1092-1097.	1.4	56
416	Microstructure Control of Zn/ZnO Core/Shell Nanoparticles and Their Temperature-Dependent Blue Emissions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14311-14317.	1.2	143
417	In <sub>2</sub> O <sub>3</sub> Nanotowers: Controlled Synthesis and Mechanism Analysis. <i>Crystal Growth and Design</i> , 2007, 7, 940-943.	1.4	71
418	Strong localization effect in temperature dependence of violet-blue emission from ZnO nanoshells. <i>Journal of Applied Physics</i> , 2007, 102, 104307.	1.1	57
419	Enhancement of the ultraviolet emission of ZnO nanostructures by polyaniline modification. <i>Chemical Physics Letters</i> , 2007, 446, 370-373.	1.2	59
420	Low-temperature synthesis and structural characterization of single-crystalline tungsten oxide nanorods. <i>Materials Letters</i> , 2007, 61, 1718-1721.	1.3	20
421	Design of Sb <sub>2</sub> S <sub>3</sub> nanorod-bundles: imperfect oriented attachment. <i>Nanotechnology</i> , 2006, 17, 2098-2104.	1.3	78
422	Morphology evolution and photoluminescence properties of ZnO films electrochemically deposited on conductive glass substrates. <i>Journal of Applied Physics</i> , 2006, 99, 073516.	1.1	114
423	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. <i>Journal of Materials Chemistry</i> , 2006, 16, 609-612.	6.7	43
424	High-Density, Aligned SiO <sub>2</sub> Nanowire Arrays: Microscopic Imaging of the Unique Growth Style and Their Ultraviolet Light Emission Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15724-15728.	1.2	30
425	Surface optical phonon Raman scattering in Zn <sup>2+</sup> -ZnO core-shell structured nanoparticles. <i>Applied Physics Letters</i> , 2006, 88, 181905.	1.5	89
426	Violet photoluminescence from shell layer of Zn <sup>2+</sup> -ZnO core-shell nanoparticles induced by laser ablation. <i>Applied Physics Letters</i> , 2006, 88, 171910.	1.5	209
427	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. <i>Applied Physics Letters</i> , 2006, 88, 161101.	1.5	296
428	Substrate dependent surface plasmon resonance evolution of Ag nanoparticles treated in atmospheres. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 5415-5423.	0.7	22
429	Oxygen-induced enhancement of surface plasmon resonance of silver nanoparticles for silver-coated soda-lime glass. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 5349-5354.	0.7	11
430	Composition/Structural Evolution and Optical Properties of ZnO/Zn Nanoparticles by Laser Ablation in Liquid Media. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18260-18266.	1.2	353