Hai-Bo Zeng

List of Publications by Year
in descending order

430	49,239	1614 105	1857 209
papers	citations	h-index	g-index

459	459	459	38301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Facet-induced coordination competition for highly ordered CsPbBr3 nanoplatelets with strong polarized emission. Nano Research, 2022, 15, 502-509.	10.4	18
2	2D Materialâ€Based Photodetectors for Infrared Imaging. Small Science, 2022, 2, 2100051.	9.9	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.	3.0	17
4	A Universal Ternaryâ€Solventâ€Ink Strategy toward Efficient Inkjetâ€Printed Perovskite Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2107798.	21.0	109
5	Perspective on Metal Halides with Selfâ€Trapped Exciton toward White Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	7.3	14
6	A mixed-dimensional WS2/GaSb heterojunction for high-performance pâ€“n diodes and junction field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 1511-1516.	5.5	1
7	Water-dispersed CsPbBr₃ nanocrystals for single molecule localization microscopy with high location accuracy for targeted bioimaging. Nanoscale, 2022, 14, 6392-6401.	5.6	7
8	Enhanced interband tunneling in two-dimensional tunneling transistors through anisotropic energy dispersion. Physical Review B, 2022, 105, .	3.2	16
9	Substantial Improvement of Operating Stability by Strengthening Metalâ€Halogen Bonds in Halide Perovskites. Advanced Functional Materials, 2022, 32, .	14.9	16
10	High-definition colorful perovskite narrowband photodetector array enabled by laser-direct-writing. Nano Research, 2022, 15, 5476-5482.	10.4	13
11	Perovskite oxides as a 2D dielectric. Nature Electronics, 2022, 5, 199-200.	26.0	5
12	Charge-carrier dynamics and regulation strategies in perovskite light-emitting diodes: From materials to devices. Applied Physics Reviews, 2022, 9, .	11.3	20
13	Interfacial electronic properties of metal/CsSnBr3 heterojunctions. Nanotechnology, 2022, , .	2.6	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, .	6.1	5
15	Energy Regulation in White-Light-Emitting Diodes. ACS Energy Letters, 2022, 7, 2173-2188.	17.4	26
16	High-Performance Monolayer BeN₂ Transistors With Ultrahigh On-State Current: A DFT Coupled With NEGF Study. IEEE Transactions on Electron Devices, 2022, 69, 4501-4506.	3.0	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, .	3.8	13

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19	High-Performance and Low-Power Transistors Based on Anisotropic Monolayer <I>I²</I> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Te</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Applied, 2022, 17, .	3.8	15
20	Atom Substitution Defects of Hexagonal Boron Phosphide Suppress Charge Recombination. Journal of Physical Chemistry Letters, 2022, 13, 6455-6461.	4.6	4
21	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	2.0	5
22	Overcoming the Anisotropic Growth Limitations of Freeâ€Standing Singleâ€Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	13.8	24
23	Broadband and sensitive two-dimensional halide perovskite photodetector for full-spectrum underwater optical communication. Nano Research, 2021, 14, 1210-1217.	10.4	58
24	CsPbBr₃@Cs₄PbBr₆ Emitter-in-Host Composite: Fluorescence Origin and Interphase Energy Transfer. Journal of Physical Chemistry C, 2021, 125, 3-19.	3.1	24
25	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. Nature Photonics, 2021, 15, 238-244.	31.4	231
26	Leadâ€Free Halide Double Perovskites: Structure, Luminescence, and Applications. Small Structures, 2021, 2, 2000071.	12.0	71
27	Armor-like passivated CsPbBr₃ quantum dots: boosted stability with hand-in-hand ligands and enhanced performance of nuclear batteries. Journal of Materials Chemistry A, 2021, 9, 8772-8781.	10.3	13
28	Micro-patterned photoalignment of CsPbBr₃ nanowires with liquid crystal molecule composite film for polarized emission. Nanoscale, 2021, 13, 14980-14986.	5.6	10
29	One-pot synthesis of Cs₃Cu₂I₅ nanocrystals based on thermodynamic equilibrium. Materials Chemistry Frontiers, 2021, 5, 6152-6159.	5.9	22
30	The Synergy of Plasmonic Enhancement and Hotâ€Electron Effect on CsPbBr₃ Nanosheets Photodetector. Advanced Materials Interfaces, 2021, 8, 2002053.	3.7	12
31	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300â€“1050Ânm. Advanced Materials, 2021, 33, e2003852.	21.0	32
32	Fluorination suppresses thermal quenching in perovskite QLEDs. Science China Chemistry, 2021, 64, 1113-1114.	8.2	0
33	A flexible ultrasensitive optoelectronic sensor array for neuromorphic vision systems. Nature Communications, 2021, 12, 1798.	12.8	198
34	Metal Halide Perovskites for Optical Parametric Modulation. Journal of Physical Chemistry Letters, 2021, 12, 3090-3098.	4.6	7
35	White light-emitting diodes from perovskites. Journal of Semiconductors, 2021, 42, 030202.	3.7	14
36	Quantum Transport in Monolayer Î±â€CS Fieldâ€Effect Transistors. Advanced Electronic Materials, 2021, 7, 2001169.	5.1	6

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37	Green Perovskite Lightâ€Emitting Diodes with 200ÂHours Stability and 16% Efficiency: Crossâ€Linking Strategy and Mechanism. Advanced Functional Materials, 2021, 31, 2011003.	14.9	67
38	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. ACS Nano, 2021, 15, 8204-8215.	14.6	66
39	Amplifying Surface Energy Difference toward Anisotropic Growth of Allâ€Inorganic Perovskite Singleâ€Crystal Wires for Highly Sensitive Photodetector. Advanced Functional Materials, 2021, 31, 2101966.	14.9	21
40	Mn2+ induced significant improvement and robust stability of radioluminescence in Cs3Cu2I5 for high-performance nuclear battery. Nature Communications, 2021, 12, 3879.	12.8	76
41	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
42	Pressurized Alloying Assisted Synthesis of High Quality Antimonene for Capacitive Deionization. Advanced Functional Materials, 2021, 31, 2102766.	14.9	15
43	Advanced Devices for Tumor Diagnosis and Therapy. Small, 2021, 17, 2100003.	10.0	14
44	Doped Emitting Cesium Silver Halides as Xâ€Ray Scintillator with Fast Response Time, High Absorption Coefficient, and Light Yield. Advanced Photonics Research, 2021, 2, 2100066.	3.6	7
45	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. ACS Nano, 2021, 15, 14610-14617.	14.6	32
46	Strong Polarized Photoluminescence CsPbBr₃ Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. ACS Applied Materials & Interfaces, 2021, 13, 36147-36156.	8.0	20
47	Halide ion migration in lead-free all-inorganic cesium tin perovskites. Applied Physics Letters, 2021, 119, .	3.3	14
48	Engineering Selfâ€Reconstruction via Flexible Components in Layered Double Hydroxides for Superiorâ€Evolving Performance. Small, 2021, 17, e2101671.	10.0	30
49	Operational and Spectral Stability of Perovskite Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 3114-3131.	17.4	46
50	Perspective on single-emissive-layer white-LED based on perovskites. Applied Physics Letters, 2021, 119, 080502.	3.3	7
51	Optical detection of quantum geometric tensor in intrinsic semiconductors. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	6
52	Perovskite Anion Exchange: A Microdynamics Model and a Polar Adsorption Strategy for Precise Control of Luminescence Color. Advanced Functional Materials, 2021, 31, 2106871.	14.9	45
53	Perovskite Single Crystals: Synthesis, Optoelectronic Properties, and Application. Advanced Functional Materials, 2021, 31, 2008684.	14.9	70
54	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. ACS Photonics, 2021, 8, 113-124.	6.6	80

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55	Lead-free halide perovskite photodetectors spanning from near-infrared to X-ray range: a review. Nanophotonics, 2021, 10, 2221-2247.	6.0	30
56	Efficient, Stable, and Tunable Cold/Warm White Light from Leadâ€Free Halide Double Perovskites Cs₂Zr_{1â€}_xTe_xCl₆. Advanced Optical Materials, 2021, 9, 2100815.	7.3	30
57	Research progress of full electroluminescent white light-emitting diodes based on a single emissive layer. Light: Science and Applications, 2021, 10, 206.	16.6	84
58	Oriented Halide Perovskite Crystals. Chemical Reviews, 2021, 121, 12107-12108.	47.7	1
59	P-Type AsP Nanosheet as an Electron Donor for Stable Solar Broad-Spectrum Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 55102-55111.	8.0	2
60	Defect Behaviors in Perovskite Light-Emitting Diodes. , 2021, 3, 1702-1728.		27
61	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. ACS Nano, 2021, 15, 17150-17174.	14.6	101
62	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	38.1	138
63	Photo-induced charge kinetic acceleration in ultrathin layered double hydroxide nanosheets boosts the oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 1105-1112.	10.3	32
64	Enhanced Electrochemiluminescence of Porphyrin-Based Metalâ€“Organic Frameworks Controlled via Coordination Modulation. Analytical Chemistry, 2020, 92, 1916-1924.	6.5	28
65	Bionic Detectors Based on Lowâ€Bandgap Inorganic Perovskite for Selective NIRâ€I Photon Detection and Imaging. Advanced Materials, 2020, 32, e1905362.	21.0	83
66	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. ACS Nano, 2020, 14, 2777-2787.	14.6	90
67	Lead-free, stable, high-efficiency (52%) blue luminescent FA₃Bi₂Br₉ perovskite quantum dots. Nanoscale Horizons, 2020, 5, 580-585.	8.0	70
68	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. ACS Nano, 2020, 14, 5183-5193.	14.6	205
69	Singleâ€Solvent, Ligandâ€Free, Gramâ€Scale Synthesis of Cs 4 PbBr 6 Perovskite Solids with Robust Green Photoluminescence. ChemNanoMat, 2020, 6, 258-266.	2.8	11
70	Halide Perovskite Lateral Heterostructures for Energy Routing Based Photonic Applications. Advanced Optical Materials, 2020, 8, 2001347.	7.3	10
71	Energy Manipulation in Lanthanideâ€Doped Coreâ€“Shell Nanoparticles for Tunable Dualâ€Mode Luminescence toward Advanced Antiâ€Counterfeiting. Advanced Materials, 2020, 32, e2002121.	21.0	165
72	Sensitively switchable visible/infrared multispectral detection and imaging based on a tandem perovskite device. Nanoscale, 2020, 12, 20386-20395.	5.6	13

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73	Antimonene nanosheets fabricated by laser irradiation technique with outstanding nonlinear absorption responses. Applied Physics Letters, 2020, 116, .	3.3	12
74	Synthesis of single CsPbBr₃@SiO₂ coreâ€“shell particles via surface activation. Journal of Materials Chemistry C, 2020, 8, 17403-17409.	5.5	36
75	Postsynthesis Ligand Exchange Induced Porphyrin Hybrid Crystalloid Reconstruction for Self-Enhanced Electrochemiluminescence. Analytical Chemistry, 2020, 92, 15270-15274.	6.5	10
76	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. Journal of Materials Chemistry C, 2020, 8, 12632-12637.	5.5	16
77	Progress and perspective on CsPbX3 nanocrystals for light emitting diodes and solar cells. Journal of Applied Physics, 2020, 128, .	2.5	20
78	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. Nature Communications, 2020, 11, 3902.	12.8	204
79	Ultrascaled Double-Gate Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Sn</mml:mi><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> MOSFETs for High-Performance and Low-Power Applications. Physical Review Applied, 2020, 14, .	3.8	21
80	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. Light: Science and Applications, 2020, 9, 163.	16.6	81
81	High-performance monolayer Na₃Sb shrinking transistors: a DFT-NEGF study. Nanoscale, 2020, 12, 18931-18937.	5.6	11
82	Efficient Blue Perovskite Lightâ€Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. Advanced Functional Materials, 2020, 30, 2001732.	14.9	118
83	Ballistic Transport in High-Performance and Low-Power Sub-5 nm Two-Dimensional ZrNBr MOSFETs. IEEE Electron Device Letters, 2020, 41, 1029-1032.	3.9	14
84	Two-dimensional halide perovskite as Î²-ray scintillator for nuclear radiation monitoring. Nature Communications, 2020, 11, 3395.	12.8	110
85	Deep-Ultraviolet Plasmon Resonances in Al-Al₂O₃@C Coreâ€“Shell Nanoparticles Prepared via Laser Ablation in Liquid. ACS Applied Electronic Materials, 2020, 2, 802-807.	4.3	3
86	Anisotropic Inâ€Plane Ballistic Transport in Monolayer Black Arsenicâ€Phosphorus FETs. Advanced Electronic Materials, 2020, 6, 1901281.	5.1	59
87	Two-Dimensional BAs/InTe: A Promising Tandem Solar Cell with High Power Conversion Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 6074-6081.	8.0	32
88	Designing sub-10-nm Metal-Oxide-Semiconductor Field-Effect Transistors via Ballistic Transport and Disparate Effective Mass: The Case of Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Bi</mml:mi><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>. Physical Review Applied, 2020, 13, .	3.8	69
89	Allâ€Perovskite Integrated Xâ€Ray Detector with Ultrahigh Sensitivity. Advanced Optical Materials, 2020, 8, 2000273.	7.3	61
90	Charge Transfer Boosting Moisture Resistance of Seminude Perovskite Nanocrystals via Hierarchical Alumina Modulation. Journal of Physical Chemistry Letters, 2020, 11, 3159-3165.	4.6	16

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91	Engineering Interfaces to Steer Hole Dynamics of BiVO₄ Photoanodes for Solar Water Oxidation. Solar Rrl, 2019, 3, 1900115.	5.8	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.	4.6	18
93	2D Vâ€V Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	21.0	303
94	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. Journal of Materials Chemistry C, 2019, 7, 8969-8974.	5.5	8
95	Waterâ€Assisted Synthesis of Blue Chip Excitable 2D Halide Perovskite with Greenâ€Red Dual Emissions for White LEDs. Small Methods, 2019, 3, 1900365.	8.6	25
96	Recent advances and prospects toward blue perovskite materials and lightâ€emitting diodes. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 211-233.	17.3	84
97	Interfacialâ€Tunnelingâ€Effectâ€Enhanced CsPbBr₃ Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	14.9	70
98	Fast Photoelectric Conversion in the Nearâ€Infrared Enabled by Plasmonâ€Induced Hotâ€Electron Transfer. Advanced Materials, 2019, 31, e1903829.	21.0	44
99	Optical response of the chiral topological semimetal RhSi. Physical Review B, 2019, 100, .	3.2	13
100	Novel optoelectronic rotors based on orthorhombic CsPb(Br/I)₃ nanorods. Nanoscale, 2019, 11, 3117-3122.	5.6	14
101	Tailoring natural layered Î²-phase antimony into few layer antimonene for Li storage with high rate capabilities. Journal of Materials Chemistry A, 2019, 7, 3238-3243.	10.3	54
102	Aligned Heterointerfaceâ€Induced 1Tâ€MoS₂ Monolayer with Nearâ€Ideal Gibbs Free for Stable Hydrogen Evolution Reaction. Small, 2019, 15, e1804903.	10.0	63
103	Highly Luminescent and Stable Halide Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 673-681.	17.4	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.	9.1	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.	4.3	13
106	Unusual Electronic Transitions in Two-dimensional Layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Sn</mml:mi><mml:mi>Sb</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> Driven by Electronic State Rehybridization. Physical Review Applied, 2019, 11, .	3.8	21
107	Electronic band structures and optical properties of atomically thin AuSe: first-principle calculations. Journal of Semiconductors, 2019, 40, 062004.	3.7	7
108	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. Advanced Materials, 2019, 31, e1902606.	21.0	84

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109	CsPbBr₃ Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. Advanced Materials, 2019, 31, e1900767.	21.0	329
110	A Facile Approach to Solid-State White Emissive Carbon Dots and Their Application in UV-Excitable and Single-Component-Based White LEDs. Nanomaterials, 2019, 9, 725.	4.1	25
111	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 21100-21108.	8.0	6
112	Band engineering realized by chemical combination in 2D group VAâ€“VA materials. Nanoscale Horizons, 2019, 4, 1145-1152.	8.0	15
113	Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts. Nature Communications, 2019, 10, 2001.	12.8	222
114	Boron ink assisted in situ boron nitride coatings for anti-oxidation and anti-corrosion applications. Nanotechnology, 2019, 30, 335704.	2.6	15
115	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX₃ Perovskite Quantum Dots. Advanced Optical Materials, 2019, 7, 1900276.	7.3	138
116	Highly sensitive detection and imaging of ultraviolet-B light for precisely controlling vitamin D generation in the human body. Journal of Materials Chemistry C, 2019, 7, 4503-4508.	5.5	8
117	Perovskiteâ€“Ion Beam Interactions: Toward Controllable Light Emission and Lasing. ACS Applied Materials & Interfaces, 2019, 11, 15756-15763.	8.0	38
118	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr₃ Single Crystal. Journal of Physical Chemistry C, 2019, 123, 10564-10570.	3.1	37
119	Recent advances in Sb-based IIIâ€“V nanowires. Nanotechnology, 2019, 30, 212002.	2.6	8
120	Three-dimensional porous boron nitride foam for effective CO2 adsorption. Solid State Communications, 2019, 294, 1-5.	1.9	18
121	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. Nanoscale Advances, 2019, 1, 4459-4465.	4.6	25
122	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. Nanoscale, 2019, 11, 20461-20466.	5.6	8
123	Photonâ€Induced Reversible Phase Transition in CsPbBr₃ Perovskite. Advanced Functional Materials, 2019, 29, 1807922.	14.9	56
124	Topologically protected states and half-metal behaviors: Defect-strain synergy effects in two-dimensional antimonene. Physical Review Materials, 2019, 3, .	2.4	7
125	Laser direct-writing electrode for rapid customization of a photodetector. Optics Letters, 2019, 44, 683.	3.3	4
126	Two-Dimensional Pnictogen for Field-Effect Transistors. Research, 2019, 2019, 1046329.	5.7	34

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127	Green laser irradiation-stimulated fullerene-like MoS2 nanospheres for tribological applications. Tribology International, 2018, 122, 119-124.	5.9	23
128	Strongly anisotropic thermal conductivity and adequate breathability of bilayered films for heat management of on-skin electronics. 2D Materials, 2018, 5, 035013.	4.4	13
129	Ultrathin tellurium dioxide: emerging direct bandgap semiconductor with high-mobility transport anisotropy. Nanoscale, 2018, 10, 8397-8403.	5.6	66
130	Highly Efficient Carbon Dots with Reversibly Switchable Greenâ€“Red Emissions for Trichromatic White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 16005-16014.	8.0	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.	14.6	175
132	Porous silaphosphorene, silaarsenene and silaantimonene: a sweet marriage of Si and P/As/Sb. Journal of Materials Chemistry A, 2018, 6, 3738-3746.	10.3	14
133	Prediction on the physical properties of CuInS 2 with various anion positions. Current Applied Physics, 2018, 18, 304-309.	2.4	3
134	Ce³⁺-Doping to Modulate Photoluminescence Kinetics for Efficient CsPbBr₃ Nanocrystals Based Light-Emitting Diodes. Journal of the American Chemical Society, 2018, 140, 3626-3634.	13.7	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.	2.8	58
136	Heterogeneous Nucleation toward Polarâ€Solventâ€Free, Fast, and Oneâ€Pot Synthesis of Highly Uniform Perovskite Quantum Dots for Wider Color Gamut Display. Advanced Materials Interfaces, 2018, 5, 1800010.	3.7	49
137	DFT coupled with NEGF study of a promising two-dimensional channel material: black phosphorene-type GaTeCl. Nanoscale, 2018, 10, 3350-3355.	5.6	37
138	Broadband Nonlinear Photoresponse of 2D TiS₂ for Ultrashort Pulse Generation and Allâ€Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	7.3	248
139	Boosting Two-Dimensional MoS₂/CsPbBr₃ Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	8.0	207
140	Two-dimensional CsPbBr₃/PCBM heterojunctions for sensitive, fast and flexible photodetectors boosted by charge transfer. Nanotechnology, 2018, 29, 085201.	2.6	33
141	Recent progress in 2D group-VA semiconductors: from theory to experiment. Chemical Society Reviews, 2018, 47, 982-1021.	38.1	697
142	Tribology Properties: Laser Irradiationâ€Induced SiC@Graphene Subâ€Microspheres: A Bioinspired Coreâ€“Shell Structure for Enhanced Tribology Properties (Adv. Mater. Interfaces 5/2018). Advanced Materials Interfaces, 2018, 5, 1870021.	3.7	2
143	Zinc Stannate Nanocrystalâ€“Based Ultrarapidâ€Response UV Photodetectors. Advanced Materials Technologies, 2018, 3, 1800085.	5.8	18
144	Identification of few-layer ReS2 as photo-electro integrated catalyst for hydrogen evolution. Nano Energy, 2018, 48, 337-344.	16.0	71

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145	Fiberâ€Shaped ZnO/Graphene Schottky Photodetector with Strain Effect. Advanced Materials Interfaces, 2018, 5, 1800136.	3.7	31
146	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. Nanoscale, 2018, 10, 7155-7162.	5.6	38
147	Roomâ€Temperature Ionâ€Exchangeâ€Mediated Selfâ€Assembly toward Formamidinium Perovskite Nanoplates with Finely Tunable, Ultrapure Green Emissions for Achieving Rec. 2020 Displays. Advanced Functional Materials, 2018, 28, 1800248.	14.9	124
148	A Voltageâ€Boosting Strategy Enabling a Lowâ€Frequency, Flexible Electromagnetic Wave Absorption Device. Advanced Materials, 2018, 30, e1706343.	21.0	691
149	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. Advanced Materials Interfaces, 2018, 5, 1701662.	3.7	230
150	A versatile platform for the highly efficient preparation of graphene quantum dots: photoluminescence emission and hydrophilicityâ€“hydrophobicity regulation and organelle imaging. Nanoscale, 2018, 10, 1532-1539.	5.6	27
151	Laser Irradiationâ€Induced SiC@Graphene Subâ€Microspheres: A Bioinspired Coreâ€“Shell Structure for Enhanced Tribology Properties. Advanced Materials Interfaces, 2018, 5, 1700839.	3.7	10
152	Perovskite photodetectors with both visible-infrared dual-mode response and super-narrowband characteristics towards photo-communication encryption application. Nanoscale, 2018, 10, 359-365.	5.6	32
153	In situ formation of CsPbBr₃/ZnO bulk heterojunctions towards photodetectors with ultrahigh responsivity. Journal of Materials Chemistry C, 2018, 6, 12164-12169.	5.5	35
154	An Ã…ngstrÃ¶m-level d-spacing controlling synthetic route for MoS₂ towards stable intercalation of sodium ions. Journal of Materials Chemistry A, 2018, 6, 22513-22518.	10.3	24
155	Mechanistic Understanding of Two-Dimensional Phosphorus, Arsenic, and Antimony High-Capacity Anodes for Fast-Charging Lithium/Sodium Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 29559-29566.	3.1	38
156	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. Nano Letters, 2018, 18, 7628-7634.	9.1	180
157	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. Communications Physics, 2018, 1, .	5.3	59
158	Stable, Efficient Red Perovskite Lightâ€Emitting Diodes by (Î±, Î´)â€CsPbI₃ Phase Engineering. Advanced Functional Materials, 2018, 28, 1804285.	14.9	105
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