

Haibo Zeng

List of Publications by Year in descending order

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times ranked

34148
citing authors

#	ARTICLE	IF	CITATIONS
1	Facet-induced coordination competition for highly ordered CsPbBr ₃ nanoplatelets with strong polarized emission. Nano Research, 2022, 15, 502-509.	5.8	18
2	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
3	Miniaturized Multispectral Detector Derived from Gradient Response Units on Single MAPbX ₃ Microwire. Advanced Materials, 2022, 34, e2108408.	11.1	18
4	A Universal Ternary Solvent Ink Strategy toward Efficient Inkjet-Printed Perovskite Quantum Dot Light-Emitting Diodes. Advanced Materials, 2022, 34, e2107798.	11.1	109
5	Perspective on Metal Halides with Self-Trapped Exciton toward White Light-Emitting Diodes. Advanced Optical Materials, 2022, 10, .	3.6	14
6	Water-dispersed CsPbBr ₃ nanocrystals for single molecule localization microscopy with high location accuracy for targeted bioimaging. Nanoscale, 2022, 14, 6392-6401.	2.8	7
7	Enhanced interband tunneling in two-dimensional tunneling transistors through anisotropic energy dispersion. Physical Review B, 2022, 105, .	1.1	16
8	Substantial Improvement of Operating Stability by Strengthening Metal-Halogen Bonds in Halide Perovskites. Advanced Functional Materials, 2022, 32, .	7.8	16
9	In Situ Fabrication of Cs ₃ Cu ₂ I ₅ : TI Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging. Journal of Physical Chemistry Letters, 2022, 13, 2862-2870.	2.1	39
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	High-Performance Monolayer BeN ₂ Transistors With Ultrahigh On-State Current: A DFT Coupled With NEGF Study. IEEE Transactions on Electron Devices, 2022, 69, 4501-4506.	1.6	7
14	Bismuthene. , 2022, , 173-196.		1
15	Dependence of Tunneling Mechanism on Two-Dimensional Material Parameters: A High-Throughput Study. Physical Review Applied, 2022, 17, .	1.5	13
16	High-Performance and Low-Power Transistors Based on Anisotropic Monolayer TeO_2 . Physical Review Applied, 2022, 17, .	1.5	15
17	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. Angewandte Chemie, 2021, 133, 2661-2668.	1.6	5
18	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. Angewandte Chemie - International Edition, 2021, 60, 2629-2636.	7.2	24

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19	Broadband and sensitive two-dimensional halide perovskite photodetector for full-spectrum underwater optical communication. <i>Nano Research</i> , 2021, 14, 1210-1217.	5.8	58
20	CsPbBr ₃ @Cs ₄ PbBr ₆ Emitter-in-Host Composite: Fluorescence Origin and Interphase Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3-19.	1.5	24
21	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , 2021, 15, 238-244.	15.6	231
22	A highly sensitive and selective SnS ₂ monolayer sensor in detecting SF ₆ decomposition gas. <i>Applied Surface Science</i> , 2021, 541, 148494.	3.1	38
23	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. <i>Small Structures</i> , 2021, 2, 2000071.	6.9	71
24	Armor-like passivated 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.	5.2	13
25	Micro-patterned photoalignment of CsPbBr ₃ nanowires with liquid crystal molecule composite film for polarized emission. <i>Nanoscale</i> , 2021, 13, 14980-14986.	2.8	10
26	One-pot synthesis of Cs ₃ Cu ₂ I ₅ nanocrystals based on thermodynamic equilibrium. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6152-6159.	3.2	22
27	The Synergy of Plasmonic Enhancement and Hot-Electron Effect on CsPbBr ₃ Nanosheets Photodetector. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002053.	1.9	12
28	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300-1050 nm. <i>Advanced Materials</i> , 2021, 33, e2003852.	11.1	32
29	Fluorination suppresses thermal quenching in perovskite QLEDs. <i>Science China Chemistry</i> , 2021, 64, 1113-1114.	4.2	0
30	Metal Halide Perovskites for Optical Parametric Modulation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3090-3098.	2.1	7
31	White light-emitting diodes from perovskites. <i>Journal of Semiconductors</i> , 2021, 42, 030202.	2.0	14
32	Quantum Transport in Monolayer \pm CS Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2001169.	2.6	6
33	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
34	Mn ²⁺ induced significant improvement and robust stability of radioluminescence in Cs ₃ Cu ₂ I ₅ for high-performance nuclear battery. <i>Nature Communications</i> , 2021, 12, 3879.	5.8	76
35	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
36	Pressurized Alloying Assisted Synthesis of High Quality Antimonene for Capacitive Deionization. <i>Advanced Functional Materials</i> , 2021, 31, 2102766.	7.8	15

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37	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. ACS Nano, 2021, 15, 14610-14617.	7.3	32
38	Strong Polarized Photoluminescence CsPbBr ₃ Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. ACS Applied Materials & Interfaces, 2021, 13, 36147-36156.	4.0	20
39	Halide ion migration in lead-free all-inorganic cesium tin perovskites. Applied Physics Letters, 2021, 119, .	1.5	14
40	Operational and Spectral Stability of Perovskite Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 3114-3131.	8.8	46
41	Perovskite Anion Exchange: A Microdynamics Model and a Polar Adsorption Strategy for Precise Control of Luminescence Color. Advanced Functional Materials, 2021, 31, 2106871.	7.8	45
42	Stabilizing electroluminescence color of blue perovskite LEDs via amine group doping. Science Bulletin, 2021, 66, 2189-2198.	4.3	48
43	Perovskite Single Crystals: Synthesis, Optoelectronic Properties, and Application. Advanced Functional Materials, 2021, 31, 2008684.	7.8	70
44	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. ACS Photonics, 2021, 8, 113-124.	3.2	80
45	Efficient, Stable, and Tunable Cold/Warm White Light from Lead-Free Halide Double Perovskites Cs ₂ Zr _{1-x} Te _x Cl ₆ . Advanced Optical Materials, 2021, 9, 2100815.	3.6	30
46	Optical-field induced SU(2) pair potential in caesium lead halide perovskites. International Journal of Modern Physics B, 2021, 35, 2150030.	1.0	0
47	P-Type AsP Nanosheet as an Electron Donor for Stable Solar Broad-Spectrum Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 55102-55111.	4.0	2
48	Defect Behaviors in Perovskite Light-Emitting Diodes. , 2021, 3, 1702-1728.		27
49	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. ACS Nano, 2021, 15, 17150-17174.	7.3	101
50	Halide perovskite materials as light harvesters for solar energy conversion. EnergyChem, 2020, 2, 100026.	10.1	24
51	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
52	Bionic Detectors Based on Low-Bandgap Inorganic Perovskite for Selective NIR Photon Detection and Imaging. Advanced Materials, 2020, 32, e1905362.	11.1	83
53	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. ACS Nano, 2020, 14, 2777-2787.	7.3	90
54	Lead-free, stable, high-efficiency (52%) blue luminescent FA ₃ Bi ₂ Br ₉ perovskite quantum dots. Nanoscale Horizons, 2020, 5, 580-585.	4.1	70

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55	Shining Emitter in a Stable Host: Design of Halide Perovskite Scintillators for X-ray Imaging from Commercial Concept. ACS Nano, 2020, 14, 5183-5193.	7.3	205
56	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs ₄ PbBr ₆ Perovskite Solids with Robust Green Photoluminescence. ChemNanoMat, 2020, 6, 258-266.	1.5	11
57	Energy Manipulation in Lanthanide-Doped Core-Shell Nanoparticles for Tunable Dual-Mode Luminescence toward Advanced Anti-Counterfeiting. Advanced Materials, 2020, 32, e2002121.	11.1	165
58	Antimonene nanosheets fabricated by laser irradiation technique with outstanding nonlinear absorption responses. Applied Physics Letters, 2020, 116, .	1.5	12
59	Synthesis of single CsPbBr ₃ @SiO ₂ core-shell particles via surface activation. Journal of Materials Chemistry C, 2020, 8, 17403-17409.	2.7	36
60	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. Journal of Materials Chemistry C, 2020, 8, 12632-12637.	2.7	16
61	Progress and perspective on CsPbX ₃ nanocrystals for light emitting diodes and solar cells. Journal of Applied Physics, 2020, 128, .	1.1	20
62	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. Nature Communications, 2020, 11, 3902.	5.8	204
63	First-principle study of puckered arsenene MOSFET. Journal of Semiconductors, 2020, 41, 082006.	2.0	4
64	Ultrascaled Double-Gate Monolayer SnS ₂ MOSFETs for High-Performance and Low-Power Applications. Physical Review Applied, 2020, 14, .	1.5	21
65	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. Light: Science and Applications, 2020, 9, 163.	7.7	81
66	High-performance monolayer Na ₃ Sb shrinking transistors: a DFT-NEGF study. Nanoscale, 2020, 12, 18931-18937.	2.8	11
67	Efficient Blue Perovskite Light-Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. Advanced Functional Materials, 2020, 30, 2001732.	7.8	118
68	Giant efficiency and color purity enhancement in multicolor inorganic perovskite light-emitting diodes via heating-assisted vacuum deposition. Journal of Semiconductors, 2020, 41, 052205.	2.0	19
69	Perovskite Nanocrystal Fluorescence-Linked Immunosorbent Assay Methodology for Sensitive Point-of-Care Biological Test. Matter, 2020, 3, 273-286.	5.0	46
70	Two-dimensional halide perovskite as γ -ray scintillator for nuclear radiation monitoring. Nature Communications, 2020, 11, 3395.	5.8	110
71	Deep-Ultraviolet Plasmon Resonances in Al ₂ O ₃ @C Core-Shell Nanoparticles Prepared via Laser Ablation in Liquid. ACS Applied Electronic Materials, 2020, 2, 802-807.	2.0	3
72	Anisotropic In-Plane Ballistic Transport in Monolayer Black Arsenic-Phosphorus FETs. Advanced Electronic Materials, 2020, 6, 1901281.	2.6	59

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73	Two-Dimensional BAs/InTe: A Promising Tandem Solar Cell with High Power Conversion Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 6074-6081.	4.0	32
74	Designing sub-10-nm Metal-Oxide-Semiconductor Field-Effect Transistors via Ballistic Transport and Disparate Effective Mass: The Case of Two-Dimensional BiN . Physical Review Applied, 2020, 13, .	1.5	69
75	All-Perovskite Integrated X-Ray Detector with Ultrahigh Sensitivity. Advanced Optical Materials, 2020, 8, 2000273.	3.6	61
76	Charge Transfer Boosting Moisture Resistance of Semirigid Perovskite Nanocrystals via Hierarchical Alumina Modulation. Journal of Physical Chemistry Letters, 2020, 11, 3159-3165.	2.1	16
77	Research Progress on the Stability of CsPbX_3 Nanocrystals. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2020, 35, 1088.	0.6	3
78	Engineering Interfaces to Steer Hole Dynamics of BiVO_4 Photoanodes for Solar Water Oxidation. Solar Rrl, 2019, 3, 1900115.	3.1	23
79	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
80	2D Van Der Waals Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	11.1	303
81	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. Journal of Materials Chemistry C, 2019, 7, 8969-8974.	2.7	8
82	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
83	Recent advances and prospects toward blue perovskite materials and light-emitting diodes. Informa-Materials, 2019, 1, 211-233.	8.5	84
84	Interfacial Tunneling-Enhanced CsPbBr_3 Photodetectors Featuring High Detectivity and Stability. Advanced Functional Materials, 2019, 29, 1904461.	7.8	70
85	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. Applied Physics Letters, 2019, 115, .	1.5	21
86	Organic composition tailored perovskite solar cells and light-emitting diodes: Perspectives and advances. Materials Today Energy, 2019, 14, 100338.	2.5	9
87	Two-dimensional SnSe/GeSe van der Waals heterostructure with strain-tunable electronic and optical properties. Journal of Physics and Chemistry of Solids, 2019, 131, 223-229.	1.9	20
88	Novel optoelectronic rotors based on orthorhombic $\text{CsPb}(\text{Br/I})_3$ nanorods. Nanoscale, 2019, 11, 3117-3122.	2.8	14
89	Tailoring natural layered $\hat{2}$ -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
90	Highly Luminescent and Stable Halide Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 673-681.	8.8	129

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91	Ultrathin Bismuth Nanosheets for Stable Na-Ion Batteries: Clarification of Structure and Phase Transition by in Situ Observation. <i>Nano Letters</i> , 2019, 19, 1118-1123.	4.5	124
92	Robust two-dimensional topological insulators in derivatives of group-VA oxides with large band gap: Tunable quantum spin Hall states. <i>Applied Materials Today</i> , 2019, 15, 163-170.	2.3	13
93	Unusual Electronic Transitions in Two-dimensional Layered $\text{Sn}_2\text{Sb}_2\text{Te}_2$ Driven by Electronic State Rehybridization. <i>Physical Review Applied</i> , 2019, 11, .	1.5	21
94	Electronic band structures and optical properties of atomically thin AuSe: first-principle calculations. <i>Journal of Semiconductors</i> , 2019, 40, 062004.	2.0	7
95	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. <i>Advanced Materials</i> , 2019, 31, e1902606.	11.1	84
96	CsPbBr_3 Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , 2019, 31, e1900767.	11.1	329
97	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
98	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21100-21108.	4.0	6
99	Band engineering realized by chemical combination in 2D group VA-VA materials. <i>Nanoscale Horizons</i> , 2019, 4, 1145-1152.	4.1	15
100	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
101	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX_3 Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1900276.	3.6	138
102	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15756-15763.	4.0	38
103	QLED goes to be both bright and efficient. <i>Science Bulletin</i> , 2019, 64, 464-465.	4.3	5
104	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr_3 Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10564-10570.	1.5	37
105	Recent advances in Sb-based III-V nanowires. <i>Nanotechnology</i> , 2019, 30, 212002.	1.3	8
106	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. <i>Nanoscale Advances</i> , 2019, 1, 4459-4465.	2.2	25
107	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. <i>Nanoscale</i> , 2019, 11, 20461-20466.	2.8	8
108	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

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109	Two-Dimensional Pnictogen for Field-Effect Transistors. Research, 2019, 2019, 1046329.	2.8	34
110	Green laser irradiation-stimulated fullerene-like MoS ₂ nanospheres for tribological applications. Tribology International, 2018, 122, 119-124.	3.0	23
111	Ultrathin tellurium dioxide: emerging direct bandgap semiconductor with high-mobility transport anisotropy. Nanoscale, 2018, 10, 8397-8403.	2.8	66
112	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
113	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
114	Porous silaphosphorene, silarsenene and silaantimonene: a sweet marriage of Si and P/As/Sb. Journal of Materials Chemistry A, 2018, 6, 3738-3746.	5.2	14
115	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
116	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
117	DFT coupled with NEGF study of a promising two-dimensional channel material: black phosphorene-type GaTeCl. Nanoscale, 2018, 10, 3350-3355.	2.8	37
118	Broadband Nonlinear Photoresponse of 2D TiS ₂ for Ultrashort Pulse Generation and All-Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	3.6	248
119	Boosting Two-Dimensional MoS ₂ /CsPbBr ₃ Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. ACS Applied Materials & Interfaces, 2018, 10, 2801-2809.	4.0	207
120	Two-dimensional CsPbBr ₃ /PCBM heterojunctions for sensitive, fast and flexible photodetectors boosted by charge transfer. Nanotechnology, 2018, 29, 085201.	1.3	33
121	Recent progress in 2D group-VA semiconductors: from theory to experiment. Chemical Society Reviews, 2018, 47, 982-1021.	18.7	697
122	Zinc Stannate Nanocrystal-Based Ultrarapid-Response UV Photodetectors. Advanced Materials Technologies, 2018, 3, 1800085.	3.0	18
123	Fiber-Shaped ZnO/Graphene Schottky Photodetector with Strain Effect. Advanced Materials Interfaces, 2018, 5, 1800136.	1.9	31
124	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. Advanced Materials Interfaces, 2018, 5, 1701662.	1.9	230
125	A versatile platform for the highly efficient preparation of graphene quantum dots: photoluminescence emission and hydrophilicity-hydrophobicity regulation and organelle imaging. Nanoscale, 2018, 10, 1532-1539.	2.8	27
126	Laser Irradiation-Induced SiC@Graphene Sub-Microspheres: A Bioinspired Core-Shell Structure for Enhanced Tribology Properties. Advanced Materials Interfaces, 2018, 5, 1700839.	1.9	10

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127	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
128	<i>In situ</i> formation of CsPbBr ₃ /ZnO bulk heterojunctions towards photodetectors with ultrahigh responsivity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12164-12169.	2.7	35
129	An Ångström-level <i>d</i> -spacing controlling synthetic route for MoS ₂ towards stable intercalation of sodium ions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22513-22518.	5.2	24
130	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
131	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. <i>Nano Letters</i> , 2018, 18, 7628-7634.	4.5	180
132	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018, 1, .	2.0	59
133	Stable, Efficient Red Perovskite Light-Emitting Diodes by (±, ±)-CsPbI ₃ Phase Engineering. <i>Advanced Functional Materials</i> , 2018, 28, 1804285.	7.8	105
134	Organic-Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48%. <i>Advanced Materials</i> , 2018, 30, e1805409.	11.1	409
135	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , 2018, 5, 4504-4512.	3.2	17
136	Space-Confined Growth of CsPbBr ₃ Film Achieving Photodetectors with High Performance in All Figures of Merit. <i>Advanced Functional Materials</i> , 2018, 28, 1804394.	7.8	108
137	A Perovskite Light-Emitting Device Driven by Low-Frequency Alternating Current Voltage. <i>Advanced Optical Materials</i> , 2018, 6, 1800206.	3.6	29
138	In Situ Passivation of PbBr ₆ ⁴⁻ Octahedra toward Blue Luminescent CsPbBr ₃ Nanoplatelets with Near 100% Absolute Quantum Yield. <i>ACS Energy Letters</i> , 2018, 3, 2030-2037.	8.8	402
139	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
140	Metal Halide Perovskites: Synthesis, Ion Migration, and Application in Field-Effect Transistors. <i>Small</i> , 2018, 14, e1801460.	5.2	88
141	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
142	Recent Advances in Group III-V Nanowire Infrared Detectors. <i>Advanced Optical Materials</i> , 2018, 6, 1800256.	3.6	43
143	Bubble dimer dynamics induced by dual laser beam ablation in liquid. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	18
144	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

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145	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
146	High-Performance Low-Voltage-Driven Phototransistors through CsPbBr ₃ 2D Crystal van der Waals Heterojunctions. <i>Advanced Optical Materials</i> , 2018, 6, 1800152.	3.6	41
147	Perovskite nanocrystals: synthesis, properties and applications. <i>Science Bulletin</i> , 2017, 62, 369-380.	4.3	96
148	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. <i>Small</i> , 2017, 13, 1603996.	5.2	537
149	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , 2017, 11, 2015-2023.	7.3	274
150	Two-Dimensional Metal Halide Perovskites: Theory, Synthesis, and Optoelectronics. <i>Small Methods</i> , 2017, 1, 1600018.	4.6	115
151	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
152	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
153	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
154	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
155	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
156	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. <i>Nano Letters</i> , 2017, 17, 3434-3440.	4.5	250
157	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
158	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
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