

Haibo Zeng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

318
papers

34,031
citations

93
h-index

179
g-index

327
ext. papers

39,140
ext. citations

9.9
avg, IF

7.71
L-index

#	Paper	IF	Citations
318	A Universal ternary-solvent-ink Strategy Towards Efficient inkjet-printed Perovskite Quantum Dot light-emitting Diodes.. <i>Advanced Materials</i> , 2022 , e2107798	24	20
317	Extending Channel Scaling Limit of p-MOSFETs Through Antimonene With Heavy Effective Mass and High Density of State. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	6
316	In Situ Fabrication of CsCuI: Tl Nanocrystal Films for High-Resolution and Ultrastable X-ray Imaging.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2862-2870	6.4	10
315	Charge-carrier dynamics and regulation strategies in perovskite light-emitting diodes: From materials to devices. <i>Applied Physics Reviews</i> , 2022 , 9, 021308	17.3	4
314	Bismuthene 2022 , 173-196		
313	Miniaturized Multispectral Detector Derived from Gradient Response Units on Single MAPbX Microwire.. <i>Advanced Materials</i> , 2021 , e2108408	24	3
312	P-Type AsP Nanosheet as an Electron Donor for Stable Solar Broad-Spectrum Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55102-55111	9.5	
311	Perovskite White Light Emitting Diodes: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2021 ,	16.7	18
310	Efficient, Stable, and Tunable Cold/Warm White Light from Lead-Free Halide Double Perovskites Cs ₂ Zr _{1-x} TexCl ₆ . <i>Advanced Optical Materials</i> , 2021 , 9, 2100815	8.1	4
309	Optical-field induced SU(2) pair potential in caesium lead halide perovskites. <i>International Journal of Modern Physics B</i> , 2021 , 35, 2150030	1.1	
308	Nonlinear Optics in Lead Halide Perovskites: Mechanisms and Applications. <i>ACS Photonics</i> , 2021 , 8, 113-124	12.4	24
307	Metal Halide Perovskites for Optical Parametric Modulation. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3090-3098	6.4	2
306	White light-emitting diodes from perovskites. <i>Journal of Semiconductors</i> , 2021 , 42, 030202	2.3	10
305	Quantum Transport in Monolayer HCS Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001169	6.4	1
304	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	15.6	9
303	Mn induced significant improvement and robust stability of radioluminescence in CsCuI for high-performance nuclear battery. <i>Nature Communications</i> , 2021 , 12, 3879	17.4	27
302	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222

301	Pressurized Alloying Assisted Synthesis of High Quality Antimonene for Capacitive Deionization. <i>Advanced Functional Materials</i> , 2021 , 31, 2102766	15.6	3
300	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie</i> , 2021 , 133, 2661-2668	3.6	1
299	Overcoming the Anisotropic Growth Limitations of Free-Standing Single-Crystal Halide Perovskite Films. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2629-2636	16.4	12
298	Broadband and sensitive two-dimensional halide perovskite photodetector for full-spectrum underwater optical communication. <i>Nano Research</i> , 2021 , 14, 1210-1217	10	24
297	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	3.8	9
296	Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites. <i>Nature Photonics</i> , 2021 , 15, 238-244	33.9	111
295	A highly sensitive and selective SnS ₂ monolayer sensor in detecting SF ₆ decomposition gas. <i>Applied Surface Science</i> , 2021 , 541, 148494	6.7	12
294	Lead-Free Halide Double Perovskites: Structure, Luminescence, and Applications. <i>Small Structures</i> , 2021 , 2, 2000071	8.7	25
293	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	13	4
292	Micro-patterned photoalignment of CsPbBr nanowires with liquid crystal molecule composite film for polarized emission. <i>Nanoscale</i> , 2021 , 13, 14980-14986	7.7	0
291	One-pot synthesis of Cs ₃ Cu ₂ I ₅ nanocrystals based on thermodynamic equilibrium. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6152-6159	7.8	5
290	The Synergy of Plasmonic Enhancement and Hot-Electron Effect on CsPbBr ₃ Nanosheets Photodetector. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002053	4.6	4
289	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300-1050nm. <i>Advanced Materials</i> , 2021 , 33, e2003852	24	11
288	Fluorination suppresses thermal quenching in perovskite QLEDs. <i>Science China Chemistry</i> , 2021 , 64, 1113-1114	7.1	114
287	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. <i>ACS Nano</i> , 2021 , 15, 14610-14617	16.7	9
286	Strong Polarized Photoluminescence CsPbBr Nanowire Composite Films for UV Spectral Conversion Polarization Photodetector Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36147-36156	9.5	5
285	Halide ion migration in lead-free all-inorganic cesium tin perovskites. <i>Applied Physics Letters</i> , 2021 , 119, 031902	3.4	3
284	Operational and Spectral Stability of Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2021 , 6, 3114-3131	3.1	11

283	Stabilizing electroluminescence color of blue perovskite LEDs via amine group doping. <i>Science Bulletin</i> , 2021 , 66, 2189-2198	10.6	15
282	Perovskite Single Crystals: Synthesis, Optoelectronic Properties, and Application. <i>Advanced Functional Materials</i> , 2021 , 31, 2008684	15.6	28
281	Efficient Blue Perovskite Light-Emitting Diodes Boosted by 2D/3D Energy Cascade Channels. <i>Advanced Functional Materials</i> , 2020 , 30, 2001732	15.6	62
280	Giant efficiency and color purity enhancement in multicolor inorganic perovskite light-emitting diodes via heating-assisted vacuum deposition. <i>Journal of Semiconductors</i> , 2020 , 41, 052205	2.3	13
279	Perovskite Nanocrystal Fluorescence-Linked Immunosorbent Assay Methodology for Sensitive Point-of-Care Biological Test. <i>Matter</i> , 2020 , 3, 273-286	12.7	19
278	Two-dimensional halide perovskite as γ ray scintillator for nuclear radiation monitoring. <i>Nature Communications</i> , 2020 , 11, 3395	17.4	55
277	Deep-Ultraviolet Plasmon Resonances in Al-Al ₂ O ₃ @C Core-Shell Nanoparticles Prepared via Laser Ablation in Liquid. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 802-807	4	3
276	Anisotropic In-Plane Ballistic Transport in Monolayer Black Arsenic-Phosphorus FETs. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901281	6.4	36
275	Two-Dimensional BAs/InTe: A Promising Tandem Solar Cell with High Power Conversion Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6074-6081	9.5	20
274	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,	4.3	42
273	All-Perovskite Integrated X-Ray Detector with Ultrahigh Sensitivity. <i>Advanced Optical Materials</i> , 2020 , 8, 2000273	8.1	33
272	Research Progress on the Stability of CsPbX ₃ Nanocrystals. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2020 , 35, 1088	1	1
271	Halide perovskite materials as light harvesters for solar energy conversion. <i>EnergyChem</i> , 2020 , 2, 100026	6.9	11
270	Advances of 2D bismuth in energy sciences. <i>Chemical Society Reviews</i> , 2020 , 49, 263-285	58.5	78
269	Bionic Detectors Based on Low-Bandgap Inorganic Perovskite for Selective NIR-I Photon Detection and Imaging. <i>Advanced Materials</i> , 2020 , 32, e1905362	24	45
268	Welding Perovskite Nanowires for Stable, Sensitive, Flexible Photodetectors. <i>ACS Nano</i> , 2020 , 14, 2777-2787	16.7	46
267	Lead-free, stable, high-efficiency (52%) blue luminescent FABiBr perovskite quantum dots. <i>Nanoscale Horizons</i> , 2020 , 5, 580-585	10.8	41
266	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	16.7	110

265	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs ₄ PbBr ₆ Perovskite Solids with Robust Green Photoluminescence. <i>ChemNanoMat</i> , 2020 , 6, 258-266	3.5	4
264	Energy Manipulation in Lanthanide-Doped Core-Shell Nanoparticles for Tunable Dual-Mode Luminescence toward Advanced Anti-Counterfeiting. <i>Advanced Materials</i> , 2020 , 32, e2002121	24	61
263	Antimonene nanosheets fabricated by laser irradiation technique with outstanding nonlinear absorption responses. <i>Applied Physics Letters</i> , 2020 , 116, 261903	3.4	3
262	Synthesis of single CsPbBr ₃ @SiO ₂ core-shell particles via surface activation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17403-17409	7.1	12
261	High-performance vertical field-effect transistors based on all-inorganic perovskite microplatelets. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12632-12637	7.1	10
260	Progress and perspective on CsPbX ₃ nanocrystals for light emitting diodes and solar cells. <i>Journal of Applied Physics</i> , 2020 , 128, 050903	2.5	10
259	A bilateral interfacial passivation strategy promoting efficiency and stability of perovskite quantum dot light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 3902	17.4	105
258	First-principle study of puckered arsenene MOSFET. <i>Journal of Semiconductors</i> , 2020 , 41, 082006	2.3	1
257	Ultrascaled Double-Gate Monolayer SnS ₂ MOSFETs for High-Performance and Low-Power Applications. <i>Physical Review Applied</i> , 2020 , 14,	4.3	7
256	Perovskite light-emitting/detecting bifunctional fibres for wearable LiFi communication. <i>Light: Science and Applications</i> , 2020 , 9, 163	16.7	44
255	High-performance monolayer NaSb shrinking transistors: a DFT-NEGF study. <i>Nanoscale</i> , 2020 , 12, 18931-18937	7.7	17
254	Charge Transfer Boosting Moisture Resistance of Seminude Perovskite Nanocrystals via Hierarchical Alumina Modulation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3159-3165	6.4	8
253	Lateral cavity enabled Fabry-Perot microlasers from all-inorganic perovskites. <i>Applied Physics Letters</i> , 2019 , 115, 111103	3.4	10
252	Organic composition tailored perovskite solar cells and light-emitting diodes: Perspectives and advances. <i>Materials Today Energy</i> , 2019 , 14, 100338	7	8
251	Two-dimensional SnSe/GeSe van der Waals heterostructure with strain-tunable electronic and optical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 131, 223-229	3.9	14
250	Novel optoelectronic rotors based on orthorhombic CsPb(Br/I) nanorods. <i>Nanoscale</i> , 2019 , 11, 3117-3122	7.7	13
249	Tailoring natural layered ε-phase antimony into few layer antimonene for Li storage with high rate capabilities. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3238-3243	13	37
248	Highly Luminescent and Stable Halide Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 673-681	20.1	100

247	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	11.5	93
246	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	6.6	13
245	Unusual Electronic Transitions in Two-dimensional Layered SnSb ₂ Te ₄ Driven by Electronic State Rehybridization. <i>Physical Review Applied</i> , 2019 , 11,	4.3	14
244	Electronic band structures and optical properties of atomically thin AuSe: first-principle calculations. <i>Journal of Semiconductors</i> , 2019 , 40, 062004	2.3	3
243	Modulating Epitaxial Atomic Structure of Antimonene through Interface Design. <i>Advanced Materials</i> , 2019 , 31, e1902606	24	63
242	CsPbBr Quantum Dots 2.0: Benzenesulfonic Acid Equivalent Ligand Awakens Complete Purification. <i>Advanced Materials</i> , 2019 , 31, e1900767	24	189
241	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,	5.4	22
240	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	9.5	4
239	Band engineering realized by chemical combination in 2D group VA/VA materials. <i>Nanoscale Horizons</i> , 2019 , 4, 1145-1152	10.8	10
238	Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts. <i>Nature Communications</i> , 2019 , 10, 2001	17.4	120
237	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX ₃ Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019 , 7, 1900276	8.1	83
236	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15756-15763	9.5	25
235	QLED goes to be both bright and efficient. <i>Science Bulletin</i> , 2019 , 64, 464-465	10.6	4
234	Temperature Dependent Reflectance and Ellipsometry Studies on a CsPbBr ₃ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10564-10570	3.8	23
233	Recent advances in Sb-based III-V nanowires. <i>Nanotechnology</i> , 2019 , 30, 212002	3.4	5
232	Engineering Interfaces to Steer Hole Dynamics of BiVO ₄ Photoanodes for Solar Water Oxidation. <i>Solar Rrl</i> , 2019 , 3, 1900115	7.1	7
231	Photon-Induced Reshaping in Perovskite Material Yields of Nanocrystals with Accurate Control of Size and Morphology. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4149-4156	6.4	7
230	2D V-V Binary Materials: Status and Challenges. <i>Advanced Materials</i> , 2019 , 31, e1902352	24	236

229	Lattice restraint induced ultra-large bandgap widening of ZnO nanoparticles. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8969-8974	7.1	7
228	Water-Assisted Synthesis of Blue Chip Excitable 2D Halide Perovskite with Green-Red Dual Emissions for White LEDs. <i>Small Methods</i> , 2019 , 3, 1900365	12.8	19
227	Recent advances and prospects toward blue perovskite materials and light-emitting diodes. <i>Information Materials</i> , 2019 , 1, 211-233	23.1	61
226	Interfacial-Tunneling-Effect-Enhanced CsPbBr ₃ Photodetectors Featuring High Detectivity and Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1904461	15.6	37
225	Topologically protected states and half-metal behaviors: Defect-strain synergy effects in two-dimensional antimonene. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
224	Two-Dimensional Pnictogen for Field-Effect Transistors. <i>Research</i> , 2019 , 2019, 1046329	7.8	21
223	Laser induced ion migration in all-inorganic mixed halide perovskite micro-platelets. <i>Nanoscale Advances</i> , 2019 , 1, 4459-4465	5.1	17
222	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. <i>Nanoscale</i> , 2019 , 11, 20461720466		
221	Green laser irradiation-stimulated fullerene-like MoS ₂ nanospheres for tribological applications. <i>Tribology International</i> , 2018 , 122, 119-124	4.9	15
220	Ultrathin tellurium dioxide: emerging direct bandgap semiconductor with high-mobility transport anisotropy. <i>Nanoscale</i> , 2018 , 10, 8397-8403	7.7	43
219	Highly Efficient Carbon Dots with Reversibly Switchable Green-Red Emissions for Trichromatic White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16005-16014	9.5	104
218	Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 1887-1893	16.7	135
217	Porous silaphosphorene, silarsenene and silantimonene: a sweet marriage of Si and P/As/Sb. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3738-3746	13	9
216	Origin of green luminescence in carbon quantum dots: specific emission bands originate from oxidized carbon groups. <i>New Journal of Chemistry</i> , 2018 , 42, 4603-4611	3.6	48
215	Heterogeneous Nucleation toward Polar-Solvent-Free, Fast, and One-Pot Synthesis of Highly Uniform Perovskite Quantum Dots for Wider Color Gamut Display. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800010	4.6	35
214	DFT coupled with NEGF study of a promising two-dimensional channel material: black phosphorene-type GaTeCl. <i>Nanoscale</i> , 2018 , 10, 3350-3355	7.7	25
213	Broadband Nonlinear Photoresponse of 2D TiS ₂ for Ultrashort Pulse Generation and All-Optical Thresholding Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1701166	8.1	217
212	Boosting Two-Dimensional MoS/CsPbBr Photodetectors via Enhanced Light Absorbance and Interfacial Carrier Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2801-2809	9.5	140

211	Two-dimensional CsPbBr ₃ /PCBM heterojunctions for sensitive, fast and flexible photodetectors boosted by charge transfer. <i>Nanotechnology</i> , 2018 , 29, 085201	3.4	29
210	Recent progress in 2D group-VA semiconductors: from theory to experiment. <i>Chemical Society Reviews</i> , 2018 , 47, 982-1021	58.5	549
209	Zinc Stannate Nanocrystal-Based Ultrarapid-Response UV Photodetectors. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800085	6.8	9
208	Fiber-Shaped ZnO/Graphene Schottky Photodetector with Strain Effect. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800136	4.6	27
207	Surface Chemistry of All Inorganic Halide Perovskite Nanocrystals: Passivation Mechanism and Stability. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701662	4.6	170
206	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	20.1	281
205	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	14.4	40
204	Metal Halide Perovskites: Synthesis, Ion Migration, and Application in Field-Effect Transistors. <i>Small</i> , 2018 , 14, e1801460	11	69
203	Band offsets in new BN/BX (X = P, As, Sb) lateral heterostructures based on bond-orbital theory. <i>Nanoscale</i> , 2018 , 10, 15918-15925	7.7	12
202	Recent Advances in Group III-V Nanowire Infrared Detectors. <i>Advanced Optical Materials</i> , 2018 , 6, 1800258	5.1	29
201	Bubble dimer dynamics induced by dual laser beam ablation in liquid. <i>Applied Physics Letters</i> , 2018 , 113, 021902	3.4	16
200	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	12.8	40
199	Room-Temperature Triple-Ligand Surface Engineering Synergistically Boosts Ink Stability, Recombination Dynamics, and Charge Injection toward EQE-11.6% Perovskite QLEDs. <i>Advanced Materials</i> , 2018 , 30, e1800764	24	309
198	High-Performance Low-Voltage-Driven Phototransistors through CsPbBr ₃ 2D Crystal van der Waals Heterojunctions. <i>Advanced Optical Materials</i> , 2018 , 6, 1800152	8.1	30
197	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	7.7	23
196	Laser Irradiation-Induced SiC@Graphene Sub-Microspheres: A Bioinspired Core-Shell Structure for Enhanced Tribology Properties. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700839	4.6	6
195	In situ formation of CsPbBr ₃ /ZnO bulk heterojunctions towards photodetectors with ultrahigh responsivity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12164-12169	7.1	26
194	An 8-gstrm-level d-spacing controlling synthetic route for MoS ₂ towards stable intercalation of sodium ions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22513-22518	13	20

193	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, 29559-29567	3.8	27
192	Narrowband Perovskite Photodetector-Based Image Array for Potential Application in Artificial Vision. <i>Nano Letters</i> , 2018 , 18, 7628-7634	11.5	109
191	Switching excitonic recombination and carrier trapping in cesium lead halide perovskites by air. <i>Communications Physics</i> , 2018 , 1,	5.4	43
190	Stable, Efficient Red Perovskite Light-Emitting Diodes by (FAPbI ₃) _{1-x} (CsPbI ₃) _x Phase Engineering. <i>Advanced Functional Materials</i> , 2018 , 28, 1804285	15.6	78
189	Organic-Inorganic Hybrid Passivation Enables Perovskite QLEDs with an EQE of 16.48. <i>Advanced Materials</i> , 2018 , 30, e1805409	24	291
188	Emissions at Perovskite Quantum Dot/Film Interface with Halide Anion Exchange. <i>ACS Photonics</i> , 2018 , 5, 4504-4512	6.3	12
187	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	15.6	81
186	A Perovskite Light-Emitting Device Driven by Low-Frequency Alternating Current Voltage. <i>Advanced Optical Materials</i> , 2018 , 6, 1800206	8.1	23
185	Perovskite nanocrystals: synthesis, properties and applications. <i>Science Bulletin</i> , 2017 , 62, 369-380	10.6	59
184	All Inorganic Halide Perovskites Nanosystem: Synthesis, Structural Features, Optical Properties and Optoelectronic Applications. <i>Small</i> , 2017 , 13, 1603996	11	438
183	Constructing Fast Carrier Tracks into Flexible Perovskite Photodetectors To Greatly Improve Responsivity. <i>ACS Nano</i> , 2017 , 11, 2015-2023	16.7	222
182	Two-Dimensional Metal Halide Perovskites: Theory, Synthesis, and Optoelectronics. <i>Small Methods</i> , 2017 , 1, 1600018	12.8	95
181	Solution-Processed Low Threshold Vertical Cavity Surface Emitting Lasers from All-Inorganic Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2017 , 27, 1605088	15.6	184
180	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	9.3	34
179	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	7.1	128
178	Low-Voltage Photodetectors with High Responsivity Based on Solution-Processed Micrometer-Scale All-Inorganic Perovskite Nanoplatelets. <i>Small</i> , 2017 , 13, 1700364	11	109
177	Ultralarge All-Inorganic Perovskite Bulk Single Crystal for High-Performance Visible-Infrared Dual-Modal Photodetectors. <i>Advanced Optical Materials</i> , 2017 , 5, 1700157	8.1	182
176	Antimonene Oxides: Emerging Tunable Direct Bandgap Semiconductor and Novel Topological Insulator. <i>Nano Letters</i> , 2017 , 17, 3434-3440	11.5	217

175	Van der Waals bilayer antimonene: A promising thermophotovoltaic cell material with 31% energy conversion efficiency. <i>Nano Energy</i> , 2017 , 38, 561-568	17.1	78
174	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	6.4	67
173	An all-inkjet-printed flexible UV photodetector. <i>Nanoscale</i> , 2017 , 9, 8580-8585	7.7	37
172	Enhancement of adjustable localized surface plasmon resonance in ZnO nanocrystals via a dual doping approach. <i>Science Bulletin</i> , 2017 , 62, 693-699	10.6	9
171	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	10.4	34
170	Boosting Fiber-Shaped Photodetectors via "Soft" Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12092-12099	9.5	24
169	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	16.4	67
168	Constructing Mie-Scattering Porous Interface-Fused Perovskite Films to Synergistically Boost Light Harvesting and Carrier Transport. <i>Angewandte Chemie</i> , 2017 , 129, 5316-5320	3.6	10
167	Two-dimensional SiP: an unexplored direct band-gap semiconductor. <i>2D Materials</i> , 2017 , 4, 015030	5.9	59
166	Nanowire-based transparent conductors for flexible electronics and optoelectronics. <i>Science Bulletin</i> , 2017 , 62, 143-156	10.6	48
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11	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. <i>Journal of Materials Chemistry</i> , 2006 , 16, 609-612		41
10	Surface optical phonon Raman scattering in ZnO/ZnO core-shell structured nanoparticles. <i>Applied Physics Letters</i> , 2006 , 88, 181905	3.4	82
9	Violet photoluminescence from shell layer of ZnO/ZnO core-shell nanoparticles induced by laser ablation. <i>Applied Physics Letters</i> , 2006 , 88, 171910	3.4	189
8	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. <i>Applied Physics Letters</i> , 2006 , 88, 161101	3.4	264
7	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, 18260-6	3.4	326
6	Perspective on Metal Halides with Self-Trapped Exciton toward White Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2101900	8.1	0
5	Defect Behaviors in Perovskite Light-Emitting Diodes 1702-1728		5
4	Facet-induced coordination competition for highly ordered CsPbBr ₃ nanoplatelets with strong polarized emission. <i>Nano Research</i> , 1	10	2
3	Perovskite Anion Exchange: A Microdynamics Model and a Polar Adsorption Strategy for Precise Control of Luminescence Color. <i>Advanced Functional Materials</i> , 2106871	15.6	10
2	Substantial Improvement of Operating Stability by Strengthening Metal-Halogen Bonds in Halide Perovskites. <i>Advanced Functional Materials</i> , 2112129	15.6	2
1	High-definition colorful perovskite narrowband photodetector array enabled by laser-direct-writing. <i>Nano Research</i> , 1	10	1