

T C Sum

List of Publications by Year in descending order

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all docs

319
docs citations

319
times ranked

30157
citing authors

#	ARTICLE	IF	CITATIONS
1	Spotlight on Hot Carriers in Halide Perovskite Luminescence. ACS Energy Letters, 2022, 7, 749-756.	8.8	13
2	Tailoring the Energy Manifold of Quasi-Two-Dimensional Perovskites for Efficient Carrier Extraction. Advanced Energy Materials, 2022, 12, .	10.2	15
3	Grain Boundaries Engineering via Laser Manufactured La-Doped BaSnO ₃ Nanocrystals with Tailored Surface States Enabling Perovskite Solar Cells with Efficiency of 23.74%. Advanced Functional Materials, 2022, 32, 2112388.	7.8	16
4	Carrier, Spin, and Phonon Dynamics in Hybrid Organic-Inorganic Perovskites. , 2022, , 137-206.		0
5	Defect Passivation Using a Phosphonic Acid Surface Modifier for Efficient RP Perovskite Blue-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 34238-34246.	4.0	15
6	Water-stable Perovskite Quantum Dots-based FRET Nanosensor for the Detection of Rhodamine 6G in Water, Food, and Biological Samples. Microchemical Journal, 2022, 180, 107624.	2.3	13
7	Giant second-harmonic generation in ferroelectric NbOI ₂ . Nature Photonics, 2022, 16, 644-650.	15.6	57
8	Efficacious symmetry-adapted atomic displacement method for lattice dynamical studies. Computer Physics Communications, 2021, 259, 107635.	3.0	3
9	The Physics of Interlayer Exciton Delocalization in Ruddlesden-Popper Lead Halide Perovskites. Nano Letters, 2021, 21, 405-413.	4.5	22
10	Strong coupling and pressure engineering in WSe ₂ -MoSe ₂ heterobilayers. Nature Physics, 2021, 17, 92-98.	6.5	140
11	Composition-tuned MAPbBr ₃ nanoparticles with addition of Cs ⁺ cations for improved photoluminescence. RSC Advances, 2021, 11, 24137-24143.	1.7	3
12	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. Nanoscale, 2021, 13, 59-65.	2.8	20
13	Origins of the long-range exciton diffusion in perovskite nanocrystal films: photon recycling vs exciton hopping. Light: Science and Applications, 2021, 10, 2.	7.7	66
14	Effect of alloying on the dynamics of coherent acoustic phonons in bismuth double perovskite single crystals. Optics Express, 2021, 29, 7948.	1.7	4
15	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. Science Advances, 2021, 7, .	4.7	98
16	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites. Advanced Materials, 2021, 33, e2006233.	11.1	41
17	Precise Control of CsPbBr ₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. Chemistry of Materials, 2021, 33, 2387-2397.	3.2	40
18	Room Temperature Light-Mediated Long-Range Coupling of Excitons in Perovskites. Advanced Optical Materials, 2021, 9, 2001835.	3.6	6

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19	The photophysics of Ruddlesden-Popper perovskites: A tale of energy, charges, and spins. Applied Physics Reviews, 2021, 8, .	5.5	34
20	Zone-Folded Longitudinal Acoustic Phonons Driving Self-Trapped State Emission in Colloidal CdSe Nanoplatelet Superlattices. Nano Letters, 2021, 21, 4137-4144.	4.5	22
21	Low-Threshold Lasing from Copper-Doped CdSe Colloidal Quantum Wells. Laser and Photonics Reviews, 2021, 15, 2100034.	4.4	18
22	Improving Photoelectrochemical Activity of ZnO/TiO ₂ Core-Shell Nanostructure through Ag Nanoparticle Integration. Catalysts, 2021, 11, 911.	1.6	6
23	Water-Stable All-Inorganic Perovskite Nanocrystals with Nonlinear Optical Properties for Targeted Multiphoton Bioimaging. ACS Applied Nano Materials, 2021, 4, 9022-9033.	2.4	29
24	Pseudo-magnetic field-induced slow carrier dynamics in periodically strained graphene. Nature Communications, 2021, 12, 5087.	5.8	31
25	One-Pot Synthesis and Structural Evolution of Colloidal Cesium Lead Halide-Lead Sulfide Heterostructure Nanocrystals for Optoelectronic Applications. Journal of Physical Chemistry Letters, 2021, 12, 9569-9578.	2.1	15
26	Spacer Cation Alloying in Ruddlesden-Popper Perovskites for Efficient Red Light-Emitting Diodes with Precisely Tunable Wavelengths. Advanced Materials, 2021, 33, e2104381.	11.1	41
27	Molecular design of two-dimensional perovskite cations for efficient energy cascade in perovskite light-emitting diodes. Applied Physics Letters, 2021, 119, 154101.	1.5	3
28	Additives in Halide Perovskite for Blue-Light-Emitting Diodes: Passivating Agents or Crystallization Modulators?. ACS Energy Letters, 2021, 6, 4265-4272.	8.8	24
29	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesden-Popper Perovskites for Non-volatile Memories. Journal of Physical Chemistry Letters, 2020, 11, 463-470.	2.1	90
30	Inducing formation of a corrugated, white-light emitting 2D lead-bromide perovskite <i>via</i> subtle changes in templating cation. Journal of Materials Chemistry C, 2020, 8, 889-893.	2.7	40
31	White Electroluminescence from Perovskite-Organic Heterojunction. ACS Energy Letters, 2020, 5, 2690-2697.	8.8	21
32	Design of 2D Templating Molecules for Mixed-Dimensional Perovskite Light-Emitting Diodes. Chemistry of Materials, 2020, 32, 8097-8105.	3.2	24
33	Halide perovskite nanocrystals for multiphoton applications. Dalton Transactions, 2020, 49, 15149-15160.	1.6	7
34	The Bright Side and Dark Side of Hybrid Organic-Inorganic Perovskites. Journal of Physical Chemistry C, 2020, 124, 27340-27355.	1.5	3
35	Hot carriers perspective on the nature of traps in perovskites. Nature Communications, 2020, 11, 2712.	5.8	65
36	Hot Carriers in Halide Perovskites: How Hot Truly?. Journal of Physical Chemistry Letters, 2020, 11, 2743-2750.	2.1	41

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37	Quo vadis, perovskite emitters?. Journal of Chemical Physics, 2020, 152, 130901.	1.2	20
38	Sub-single exciton optical gain threshold in colloidal semiconductor quantum wells with gradient alloy shelling. Nature Communications, 2020, 11, 3305.	5.8	39
39	In Situ Growth of [hk1]â€œOriented Sb₂S₃ for Solutionâ€œProcessed Planar Heterojunction Solar Cell with 6.4% Efficiency. Advanced Functional Materials, 2020, 30, 2002887.	7.8	85
40	Excitons in 2D perovskites for ultrafast terahertz photonic devices. Science Advances, 2020, 6, eaax8821.	4.7	95
41	Coupling halide perovskites with different materials: From doping to nanocomposites, beyond photovoltaics. Progress in Materials Science, 2020, 110, 100639.	16.0	38
42	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. Advanced Materials, 2020, 32, e1907864.	11.1	51
43	Targeted Synthesis of Trimeric Organicâ€œBromoplumbate Hybrids That Display Intrinsic, Highly Stokes-Shifted, Broadband Emission. Chemistry of Materials, 2020, 32, 4431-4441.	3.2	25
44	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. Joule, 2020, 4, 1035-1053.	11.7	257
45	Designing the Perovskite Structural Landscape for Efficient Blue Emission. ACS Energy Letters, 2020, 5, 1593-1600.	8.8	71
46	Resolving Spectral Mismatch Errors for Perovskite Solar Cells in Commercial Class AAA Solar Simulators. Journal of Physical Chemistry Letters, 2020, 11, 3782-3788.	2.1	10
47	Role of Electronâ€œPhonon Coupling in the Thermal Evolution of Bulk Rashba-Like Spin-Split Lead Halide Perovskites Exhibiting Dual-Band Photoluminescence. ACS Energy Letters, 2019, 4, 2205-2212.	8.8	58
48	Ultrafast long-range spin-funneling in solution-processed Ruddlesdenâ€œPopper halide perovskites. Nature Communications, 2019, 10, 3456.	5.8	38
49	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. Communications Physics, 2019, 2, .	2.0	36
50	Ultrathin Highly Luminescent Twoâ€œMonolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028.	7.8	56
51	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. Chemistry of Materials, 2019, 31, 9003-9011.	3.2	111
52	Electrically control amplified spontaneous emission in colloidal quantum dots. Science Advances, 2019, 5, eaav3140.	4.7	43
53	Highâ€œQuality Ruddlesdenâ€œPopper Perovskite Films Based on In Situ Formed Organic Spacer Cations. Advanced Materials, 2019, 31, e1904243.	11.1	35
54	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organicâ€œInorganic Perovskite. Journal of the American Chemical Society, 2019, 141, 15972-15976.	6.6	113

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55	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. Nature Communications, 2019, 10, 484.	5.8	88
56	Cation influence on carrier dynamics in perovskite solar cells. Nano Energy, 2019, 58, 604-611.	8.2	75
57	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@Cd _{1-x} Zn _x S colloidal core/crown@alloyed-shell quantum wells. Nanoscale, 2019, 11, 301-310.	2.8	44
58	Correlation of recombination and open circuit voltage in planar heterojunction perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 1273-1279.	2.7	22
59	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. IScience, 2019, 16, 312-325.	1.9	80
60	Role of Water in Suppressing Recombination Pathways in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 25474-25482.	4.0	33
61	Solution-Processed Lead Iodide for Ultrafast All-Optical Switching of Terahertz Photonic Devices. Advanced Materials, 2019, 31, e1901455.	11.1	81
62	Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Films. Advanced Optical Materials, 2019, 7, 1801732.	3.6	126
63	Upconversion amplification through dielectric superlensing modulation. Nature Communications, 2019, 10, 1391.	5.8	114
64	Simultaneously boost diffusion length and stability of perovskite for high performance solar cells. Nano Energy, 2019, 59, 721-729.	8.2	33
65	Tunable Ferroelectricity in Ruddlesden-Popper Halide Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 13523-13532.	4.0	32
66	Stable Sn ²⁺ doped FAPbI ₃ nanocrystals for near-infrared LEDs. Chemical Communications, 2019, 55, 5451-5454.	2.2	21
67	Mesoporous SiO ₂ /BiVO ₄ /CuO nanospheres for Z-scheme, visible light aerobic C-N coupling and dehydrogenation. Applied Materials Today, 2019, 15, 192-202.	2.3	30
68	Localized Traps Limited Recombination in Lead Bromide Perovskites. Advanced Energy Materials, 2019, 9, 1803119.	10.2	28
69	Slow Hot-Carrier Cooling in Halide Perovskites: Prospects for Hot-Carrier Solar Cells. Advanced Materials, 2019, 31, e1802486.	11.1	191
70	Hot carrier extraction in CH ₃ NH ₃ PbI ₃ unveiled by pump-push-probe spectroscopy. Science Advances, 2019, 5, eaax3620.	4.7	56
71	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	6.6	95
72	Enhanced Photovoltaic Performance and Thermal Stability of CH ₃ NH ₃ PbI ₃ Perovskite through Lattice Symmetrization. ACS Applied Materials & Interfaces, 2019, 11, 740-746.	4.0	20

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73	Critical role of chloride in organic ammonium spacer on the performance of Low-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nano Energy</i> , 2019, 56, 373-381.	8.2	59
74	Hydrophobic Metal Halide Perovskites for Visible-Light Photoredox C-C Bond Cleavage and Dehydrogenation Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 3494-3498.	1.6	15
75	Hydrophobic Metal Halide Perovskites for Visible-Light Photoredox C-C Bond Cleavage and Dehydrogenation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3456-3460.	7.2	93
76	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanostructure. <i>Nanoscale</i> , 2018, 10, 9466-9475.	2.8	43
77	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , 2018, 2, 537-548.	11.7	102
78	Limitations of Cs ₃ Bi ₂ I ₉ as Lead-Free Photovoltaic Absorber Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35000-35007.	4.0	133
79	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2122-2128.	5.2	163
80	Grain Size Modulation and Interfacial Engineering of CH ₃ NH ₃ PbBr ₃ Emitter Films through Incorporation of Tetraethylammonium Bromide. <i>ChemPhysChem</i> , 2018, 19, 1075-1080.	1.0	13
81	Enhanced Exciton and Photon Confinement in Ruddlesden-Popper Perovskite Microplatelets for Highly Stable Low-Threshold Polarized Lasing. <i>Advanced Materials</i> , 2018, 30, e1707235.	11.1	101
82	Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018, 30, e1706246.	11.1	242
83	Surface Rutilization of Anatase TiO ₂ for Efficient Electron Extraction and Stable P _{max} Output of Perovskite Solar Cells. <i>Chem</i> , 2018, 4, 911-923.	5.8	28
84	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	11.1	89
85	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2018, 30, 1704546.	11.1	233
86	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4197.	5.8	110
87	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1802051.	10.2	84
88	Elucidating Surface and Bulk Emission in 3D Hybrid Organic-Inorganic Lead Bromide Perovskites. <i>Advanced Optical Materials</i> , 2018, 6, 1800470.	3.6	28
89	Inducing Isotropic Growth in Multidimensional Cesium Lead Halide Perovskite Nanocrystals. <i>ChemPlusChem</i> , 2018, 83, 514-520.	1.3	11
90	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation. <i>Advanced Materials</i> , 2018, 30, e1802080.	11.1	30

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91	Understanding the effect of chlorobenzene and isopropanol anti-solvent treatments on the recombination and interfacial charge accumulation in efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14307-14314.	5.2	94
92	Efficient recycling of trapped energies for dual-emission in Mn-doped perovskite nanocrystals. <i>Nano Energy</i> , 2018, 51, 704-710.	8.2	54
93	Feature issue introduction: halide perovskites for optoelectronics. <i>Optics Express</i> , 2018, 26, A153.	1.7	11
94	Feature issue introduction: halide perovskites for optoelectronics. <i>Optical Materials Express</i> , 2018, 8, 231.	1.6	2
95	Simultaneous enhancement in charge separation and onset potential for water oxidation in a BiVO ₄ photoanode by W ⁶⁺ Ti codoping. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16965-16974.	5.2	27
96	Molecular Engineering toward Coexistence of Dielectric and Optical Switch Behavior in Hybrid Perovskite Phase Transition Material. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6416-6423.	1.1	25
97	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800185.	10.2	247
98	Coherent Spin and Quasiparticle Dynamics in Solution-Processed Layered 2D Lead Halide Perovskites. <i>Advanced Science</i> , 2018, 5, 1800664.	5.6	66
99	Synergistic capacitive behavior between polyaniline and carbon black. <i>Electrochimica Acta</i> , 2017, 230, 236-244.	2.6	38
100	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. <i>Nature Communications</i> , 2017, 8, 14558.	5.8	473
101	Temperature effect of the compact TiO ₂ layer in planar perovskite solar cells: An interfacial electrical, optical and carrier mobility study. <i>Solar Energy Materials and Solar Cells</i> , 2017, 163, 242-249.	3.0	36
102	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. <i>Nature Communications</i> , 2017, 8, 14350.	5.8	282
103	Electron/Ion Sponge-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. <i>ACS Nano</i> , 2017, 11, 6911-6920.	7.3	95
104	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. <i>Nature Communications</i> , 2017, 8, 15198.	5.8	177
105	Perovskite as a Platform for Active Flexible Metaphotonic Devices. <i>ACS Photonics</i> , 2017, 4, 1595-1601.	3.2	86
106	Rapid Crystallization of All-Inorganic CsPbBr ₃ Perovskite for High-Brightness Light-Emitting Diodes. <i>ACS Omega</i> , 2017, 2, 2757-2764.	1.6	28
107	Hybrid Lead Halide Perovskites for Ultrasensitive Photoactive Switching in Terahertz Metamaterial Devices. <i>Advanced Materials</i> , 2017, 29, 1605881.	11.1	140
108	3R MoS ₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. <i>Advanced Materials</i> , 2017, 29, 1701486.	11.1	197

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109	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 21292-21297.	4.0	71
110	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Exciton-Phonon Coupling to the Organic Framework. Chemistry of Materials, 2017, 29, 3947-3953.	3.2	200
111	Long Minority-Carrier Diffusion Length and Low Surface-Recombination Velocity in Inorganic Lead-Free CsSnI ₃ Perovskite Crystal for Solar Cells. Advanced Functional Materials, 2017, 27, 1604818.	7.8	164
112	Chemical Vapor Deposition of Large-Size Monolayer MoSe ₂ Crystals on Molten Glass. Journal of the American Chemical Society, 2017, 139, 1073-1076.	6.6	258
113	Al ₂ O ₃ Surface Complexation for Photocatalytic Organic Transformations. Journal of the American Chemical Society, 2017, 139, 269-276.	6.6	64
114	Evolution of hydrogen by few-layered black phosphorus under visible illumination. Journal of Materials Chemistry A, 2017, 5, 24874-24879.	5.2	45
115	Wavelength Tunable Plasmonic Lasers Based on Intrinsic Self-Absorption of Gain Material. ACS Photonics, 2017, 4, 2789-2796.	3.2	30
116	High-Q plasmonic infrared absorber for sensing of molecular resonances in hybrid lead halide perovskites. Journal of Applied Physics, 2017, 122, .	1.1	15
117	Modulating Excitonic Recombination Effects through One-Step Synthesis of Perovskite Nanoparticles for Light-Emitting Diodes. ChemSusChem, 2017, 10, 3818-3824.	3.6	12
118	Plasmonic enhanced photoelectrochemical and photocatalytic performances of 1D coaxial Ag@Ag ₂ S hybrids. Journal of Materials Chemistry A, 2017, 5, 21570-21578.	5.2	45
119	Investigating the feasibility of symmetric guanidinium based plumbate perovskites in prototype solar cell devices. Japanese Journal of Applied Physics, 2017, 56, 08MC05.	0.8	19
120	Broadband-Emitting 2D Hybrid Organic-Inorganic Perovskite Based on Cyclohexane-bis(methylammonium) Cation. ChemSusChem, 2017, 10, 3765-3772.	3.6	72
121	Benzyl Alcohol-Treated CH ₃ NH ₃ PbBr ₃ Nanocrystals Exhibiting High Luminescence, Stability, and Ultralow Amplified Spontaneous Emission Thresholds. Nano Letters, 2017, 17, 7424-7432.	4.5	100
122	Two-Photon Optical Properties in Individual Organic-Inorganic Perovskite Microplates. Advanced Optical Materials, 2017, 5, 1700809.	3.6	33
123	Hot carrier cooling mechanisms in halide perovskites. Nature Communications, 2017, 8, 1300.	5.8	347
124	New insight into the roles of oxygen vacancies in hematite for solar water splitting. Physical Chemistry Chemical Physics, 2017, 19, 1074-1082.	1.3	69
125	Plasmonic Entities within the Charge Transporting Layer. SpringerBriefs in Applied Sciences and Technology, 2017, , 47-80.	0.2	0
126	Plasmonic Entities within the Active Layer. SpringerBriefs in Applied Sciences and Technology, 2017, , 81-100.	0.2	0

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127	Halide Perovskite Lasers. , 2017, , .		0
128	Green Stimulated Emission Boosted by Nonradiative Resonant Energy Transfer from Blue Quantum Dots. Journal of Physical Chemistry Letters, 2016, 7, 2772-2778.	2.1	12
129	Phonon-Assisted Anti-Stokes Lasing in ZnTe Nanoribbons. Advanced Materials, 2016, 28, 276-283.	11.1	41
130	Synthesis and Characterization of Mn:ZnSe/ZnS/ZnMnS Sandwiched QDs for Multimodal Imaging and Theranostic Applications. Small, 2016, 12, 534-546.	5.2	33
131	Discerning the Surface and Bulk Recombination Kinetics of Organic-Inorganic Halide Perovskite Single Crystals. Advanced Energy Materials, 2016, 6, 1600551.	10.2	271
132	Perovskite Materials for Light-Emitting Diodes and Lasers. Advanced Materials, 2016, 28, 6804-6834.	11.1	1,188
133	Dominant factors limiting the optical gain in layered two-dimensional halide perovskite thin films. Physical Chemistry Chemical Physics, 2016, 18, 14701-14708.	1.3	73
134	Hierarchically branched Fe ₂ O ₃ @TiO ₂ nanorod arrays for photoelectrochemical water splitting: facile synthesis and enhanced photoelectrochemical performance. Nanoscale, 2016, 8, 11284-11290.	2.8	87
135	Highly stable, luminescent core-shell type methylammonium-octylammonium lead bromide layered perovskite nanoparticles. Chemical Communications, 2016, 52, 7118-7121.	2.2	138
136	Spatial Separation of Charge Carriers in In ₂ O ₃ (OH) _y Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. ACS Nano, 2016, 10, 5578-5586.	7.3	118
137	Ultrafast charge transfer in MoS ₂ /WSe ₂ p-n Heterojunction. 2D Materials, 2016, 3, 025020.	2.0	179
138	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. Advanced Science, 2016, 3, 1600137.	5.6	121
139	Lasing from halide perovskites. , 2016, , .		0
140	New Insights into the Correlation between Morphology, Excited State Dynamics, and Device Performance of Small Molecule Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600961.	10.2	34
141	Effectiveness of External Electric Field Treatment of Conjugated Polymers in Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 32282-32291.	4.0	22
142	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. Advanced Functional Materials, 2016, 26, 6238-6245.	7.8	529
143	Solution-Processed Tin-Based Perovskite for Near-Infrared Lasing. Advanced Materials, 2016, 28, 8191-8196.	11.1	222
144	Tunable room-temperature spin-selective optical Stark effect in solution-processed layered halide perovskites. Science Advances, 2016, 2, e1600477.	4.7	112

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145	A large area (70 cm ²) monolithic perovskite solar module with a high efficiency and stability. Energy and Environmental Science, 2016, 9, 3687-3692.	15.6	213
146	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. Scientific Reports, 2016, 6, 36733.	1.6	134
147	Carrier dynamics in low-dimensional perovskites. , 2016, , .		0
148	Hierarchical Porous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li ⁺ Mobility for Enhanced Electrochemical Performance. Scientific Reports, 2016, 6, 25771.	1.6	178
149	Solvent engineering for fast growth of centimetric high-quality CH ₃ NH ₃ PbI ₃ perovskite single crystals. New Journal of Chemistry, 2016, 40, 7261-7264.	1.4	20
150	Modulating carrier dynamics through perovskite film engineering. Physical Chemistry Chemical Physics, 2016, 18, 27119-27123.	1.3	33
151	Achieving Ultrafast Hole Transfer at the Monolayer MoS ₂ and CH ₃ NH ₃ PbI ₃ Perovskite Interface by Defect Engineering. ACS Nano, 2016, 10, 6383-6391.	7.3	130
152	Prolonged Electron Lifetime in Ordered TiO ₂ Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. Small, 2016, 12, 2291-2299.	5.2	50
153	Origin of Photocarrier Losses in Iron Pyrite (FeS ₂) Nanocubes. ACS Nano, 2016, 10, 4431-4440.	7.3	56
154	A Photonic Crystal Laser from Solution Based Organo-Lead Iodide Perovskite Thin Films. ACS Nano, 2016, 10, 3959-3967.	7.3	238
155	Spectral Features and Charge Dynamics of Lead Halide Perovskites: Origins and Interpretations. Accounts of Chemical Research, 2016, 49, 294-302.	7.6	159
156	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. Nanoscale, 2016, 8, 6352-6360.	2.8	88
157	Nonlinear optical response of Au nanorods for broadband pulse modulation in bulk visible lasers. Applied Physics Letters, 2015, 107, .	1.5	25
158	Colorimetric Detection of Creatinine Based on Plasmonic Nanoparticles via Synergistic Coordination Chemistry. Small, 2015, 11, 4104-4110.	5.2	54
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