T C Sum

List of Publications by Year
in descending order

300 papers	33,520 citations	4383 86 h-index	3911 177 g-index
319 all docs	319 docs citations	319 times ranked	30157 citing authors

#	Article	IF	Citations
1	Long-Range Balanced Electron- and Hole-Transport Lengths in Organic-Inorganic CH ₃ NH ₃ PbI ₃. Science, 2013, 342, 344-347.	6.0	6,060
2	Low-temperature solution-processed wavelength-tunable perovskites for lasing. Nature Materials, 2014, 13, 476-480.	13.3	2,725
3	Perovskite Materials for Lightâ€Emitting Diodes and Lasers. Advanced Materials, 2016, 28, 6804-6834.	11.1	1,188
4	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. Energy and Environmental Science, 2014, 7, 399-407.	15.6	965
5	Room-Temperature Near-Infrared High-Q Perovskite Whispering-Gallery Planar Nanolasers. Nano Letters, 2014, 14, 5995-6001.	4.5	702
6	Advancements in perovskite solar cells: photophysics behind the photovoltaics. Energy and Environmental Science, 2014, 7, 2518-2534.	15.6	694
7	Formamidinium-Containing Metal-Halide: An Alternative Material for Near-IR Absorption Perovskite Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16458-16462.	1.5	657
8	Highâ€Quality Whisperingâ€Galleryâ€Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. Advanced Functional Materials, 2016, 26, 6238-6245.	7.8	529
9	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. Nature Communications, 2017, 8, 14558.	5.8	473
10	Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. Nano Letters, 2015, 15, 4571-4577.	4.5	405
11	Defect Engineered g-C₃N₄ for Efficient Visible Light Photocatalytic Hydrogen Production. Chemistry of Materials, 2015, 27, 4930-4933.	3.2	401
12	Solar-to-fuels conversion over In2O3/g-C3N4 hybrid photocatalysts. Applied Catalysis B: Environmental, 2014, 147, 940-946.	10.8	398
13	Synthesis of Organicâ€“Inorganic Lead Halide Perovskite Nanoplatelets: Towards Highâ€Performance Perovskite Solar Cells and Optoelectronic Devices. Advanced Optical Materials, 2014, 2, 838-844.	3.6	363
14	Hot carrier cooling mechanisms in halide perovskites. Nature Communications, 2017, 8, 1300.	5.8	347
15	The Physics of ultrafast saturable absorption in graphene. Optics Express, 2010, 18, 4564.	1.7	304
16	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. Nature Communications, 2017, 8, 14350.	5.8	282
17	A room temperature low-threshold ultraviolet plasmonic nanolaser. Nature Communications, 2014, 5, 4953.	5.8	278
18	Discerning the Surface and Bulk Recombination Kinetics of Organicâ€“Inorganic Halide Perovskite Single Crystals. Advanced Energy Materials, 2016, 6, 1600551.	10.2	271

#	Article	IF	Citations
19	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmonâ€Induced Electron Transfer Processes. Advanced Functional Materials, 2013, 23, 2932-2940.	7.8	270
20	Chemical Vapor Deposition of Large-Size Monolayer MoSe₂ Crystals on Molten Glass. Journal of the American Chemical Society, 2017, 139, 1073-1076.	6.6	258
21	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. Joule, 2020, 4, 1035-1053.	11.7	257
22	Aligned and Graded Typeâ€I Ruddlesdenâ€“Popper Perovskite Films for Efficient Solar Cells. Advanced Energy Materials, 2018, 8, 1800185.	10.2	247
23	Long Electronâ€“Hole Diffusion Length in Highâ€Quality Leadâ€Free Double Perovskite Films. Advanced Materials, 2018, 30, e1706246.	11.1	242
24	Surface plasmon enhanced band edge luminescence of ZnO nanorods by capping Au nanoparticles. Applied Physics Letters, 2010, 96, .	1.5	238
25	A Photonic Crystal Laser from Solution Based Organo-Lead Iodide Perovskite Thin Films. ACS Nano, 2016, 10, 3959-3967.	7.3	238
26	Highâ€Performance Asâ€Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. Advanced Materials, 2018, 30, 1704546.	11.1	233
27	Correlated d ferromagnetism and photoluminescence in undoped ZnO nanowires. Applied Physics Letters, 2010, 96, .	1.5	226
28	Solutionâ€Processed Tinâ€Based Perovskite for Nearâ€Infrared Lasing. Advanced Materials, 2016, 28, 8191-8196.	11.1	222
29	Charge Accumulation and Hysteresis in Perovskiteâ€Based Solar Cells: An Electroâ€Optical Analysis. Advanced Energy Materials, 2015, 5, 1500829.	10.2	217
30	A large area (70 cm²) monolithic perovskite solar module with a high efficiency and stability. Energy and Environmental Science, 2016, 9, 3687-3692.	15.6	213
31	Comparative Study of Roomâ€Temperature Ferromagnetism in Cuâ€Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. Advanced Materials, 2008, 20, 3521-3527.	11.1	211
32	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Excitonâ€“Phonon Coupling to the Organic Framework. Chemistry of Materials, 2017, 29, 3947-3953.	3.2	200
33	3R MoS₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. Advanced Materials, 2017, 29, 1701486.	11.1	197
34	Interfacial Electron Transfer Barrier at Compact TiO₂/CH₃NH₃PbI₃Heterojunction. Small, 2015, 11, 3606-3613.	5.2	196
35	Slow Hotâ€Carrier Cooling in Halide Perovskites: Prospects for Hotâ€Carrier Solar Cells. Advanced Materials, 2019, 31, e1802486.	11.1	191
36	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. Journal of Physical Chemistry C, 2008, 112, 9579-9585.	1.5	187

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37	Highly Spin-Polarized Carrier Dynamics and Ultralarge Photoinduced Magnetization in CH₃NH₃PbI₃ Perovskite Thin Films. Nano Letters, 2015, 15, 1553-1558.	4.5	183
38	Ultrafast charge transfer in MoS ₂ /WSe ₂ pâ€“n Heterojunction. 2D Materials, 2016, 3, 025020.	2.0	179
39	Hierarchical Porous LiNi1/3Co1/3Mn1/3O2 Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li+ Mobility for Enhanced Electrochemical Performance. Scientific Reports, 2016, 6, 25771.	1.6	178
40	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. Nature Communications, 2017, 8, 15198.	5.8	177
41	Engineering Interfacial Photoâ€Induced Charge Transfer Based on Nanobamboo Array Architecture for Efficient Solarâ€toâ€Chemical Energy Conversion. Advanced Materials, 2015, 27, 2207-2214.	11.1	172
42	Long Minorityâ€Carrier Diffusion Length and Low Surfaceâ€Recombination Velocity in Inorganic Leadâ€Free CsSnI₃ Perovskite Crystal for Solar Cells. Advanced Functional Materials, 2017, 27, 1604818.	7.8	164
43	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. Journal of Materials Chemistry A, 2018, 6, 2122-2128.	5.2	163
44	Spectral Features and Charge Dynamics of Lead Halide Perovskites: Origins and Interpretations. Accounts of Chemical Research, 2016, 49, 294-302.	7.6	159
45	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>In</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2009, 79, .	1.1	154
46	Wavelength Tunable Single Nanowire Lasers Based on Surface Plasmon Polariton Enhanced Bursteinâ€“Moss Effect. Nano Letters, 2013, 13, 5336-5343.	4.5	145
47	Hybrid Lead Halide Perovskites for Ultrasensitive Photoactive Switching in Terahertz Metamaterial Devices. Advanced Materials, 2017, 29, 1605881.	11.1	140
48	Strong coupling and pressure engineering in WSe2â€“MoSe2 heterobilayers. Nature Physics, 2021, 17, 92-98.	6.5	140
49	Orderâ€“disorder transition in a two-dimensional boronâ€“carbonâ€“nitride alloy. Nature Communications, 2013, 4, 2681.	5.8	138
50	Highly stable, luminescent coreâ€“shell type methylammoniumâ€“octylammonium lead bromide layered perovskite nanoparticles. Chemical Communications, 2016, 52, 7118-7121.	2.2	138
51	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO₂ Nanostructures. Journal of Physical Chemistry C, 2013, 117, 14973-14982.	1.5	134
52	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. Scientific Reports, 2016, 6, 36733.	1.6	134
53	Tailoring the Lasing Modes in Semiconductor Nanowire Cavities Using Intrinsic Self-Absorption. Nano Letters, 2013, 13, 1080-1085.	4.5	133
54	Limitations of Cs₃Bi₂I₉ as Lead-Free Photovoltaic Absorber Materials. ACS Applied Materials & Interfaces, 2018, 10, 35000-35007.	4.0	133

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55	Dynamics of Bound Exciton Complexes in CdS Nanobelts. ACS Nano, 2011, 5, 3660-3669.	7.3	132
56	The formation of a carbon nanotubeâ€“graphene oxide coreâ€“shell structure and its possible applications. Carbon, 2011, 49, 5071-5078.	5.4	130
57	Achieving Ultrafast Hole Transfer at the Monolayer MoS₂ and CH₃NH₃PbI₃ Perovskite Interface by Defect Engineering. ACS Nano, 2016, 10, 6383-6391.	7.3	130
58	Photon Upconversion in Heteroâ€nanostructured Photoanodes for Enhanced Nearâ€Infrared Light Harvesting. Advanced Materials, 2013, 25, 1603-1607.	11.1	127
59	Stable, Highâ€Sensitivity and Fastâ€Response Photodetectors Based on Leadâ€Free Cs₂AgBiBr₆ Double Perovskite Films. Advanced Optical Materials, 2019, 7, 1801732.	3.6	126
60	Ultralow-Threshold Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Seeded CdSe/CdS Nanorod Heterostructures. ACS Nano, 2012, 6, 10835-10844.	7.3	124
61	Threeâ€Dimensional CdSâ€“Titanate Composite Nanomaterials for Enhanced Visibleâ€Lightâ€Driven Hydrogen Evolution. Small, 2013, 9, 996-1002.	5.2	124
62	Periodic Organicâ€“Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Roomâ€Temperature Lasing. Advanced Science, 2016, 3, 1600137.	5.6	121
63	Uncovering loss mechanisms in silver nanoparticle-blended plasmonic organic solar cells. Nature Communications, 2013, 4, 2004.	5.8	118
64	Whispering Gallery Mode Lasing from Hexagonal Shaped Layered Lead Iodide Crystals. ACS Nano, 2015, 9, 687-695.	7.3	118
65	Spatial Separation of Charge Carriers in In₂O_{3â€“x}(OH)_y Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. ACS Nano, 2016, 10, 5578-5586.	7.3	118
66	Upconversion amplification through dielectric superlensing modulation. Nature Communications, 2019, 10, 1391.	5.8	114
67	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organicâ€“Inorganic Perovskite. Journal of the American Chemical Society, 2019, 141, 15972-15976.	6.6	113
68	Tunable room-temperature spin-selective optical Stark effect in solution-processed layered halide perovskites. Science Advances, 2016, 2, e1600477.	4.7	112
69	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. Chemistry of Materials, 2019, 31, 9003-9011.	3.2	111
70	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. Nature Communications, 2018, 9, 4197.	5.8	110
71	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Lightâ€“Matter Interactions. Advanced Materials, 2015, 27, 7800-7808.	11.1	109
72	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. Applied Physics Letters, 2009, 94, .	1.5	106

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73	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. Joule, 2018, 2, 537-548.	11.7	102
74	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. Physical Chemistry Chemical Physics, 2013, 15, 18363.	1.3	101
75	Enhanced Exciton and Photon Confinement in Ruddlesdenâ€“Popper Perovskite Microplatelets for Highly Stable Lowâ€Threshold Polarized Lasing. Advanced Materials, 2018, 30, e1707235.	11.1	101
76	Benzyl Alcohol-Treated CH₃NH₃PbBr₃ Nanocrystals Exhibiting High Luminescence, Stability, and Ultralow Amplified Spontaneous Emission Thresholds. Nano Letters, 2017, 17, 7424-7432.	4.5	100
77	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. Science Advances, 2021, 7, .	4.7	98
78	Cu2ZnSn(S,Se)4 kesterite solar cell with 5.1% efficiency using spray pyrolysis of aqueous precursor solution followed by selenization. Solar Energy Materials and Solar Cells, 2014, 124, 55-60.	3.0	97
79	â€œElectron/Ion Spongeâ€•Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. ACS Nano, 2017, 11, 6911-6920.	7.3	95
80	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C₄H₉NH₃)₂PbI₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	6.6	95
81	Excitons in 2D perovskites for ultrafast terahertz photonic devices. Science Advances, 2020, 6, eaax8821.	4.7	95
82	The Soy Isoflavone, Genistein, Protects Human Cortical Neuronal Cells from Oxidative Stress. NeuroToxicology, 2004, 25, 885-891.	1.4	94
83	Understanding the effect of chlorobenzene and isopropanol anti-solvent treatments on the recombination and interfacial charge accumulation in efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 14307-14314.	5.2	94
84	Hydrophobic Metal Halide Perovskites for Visibleâ€Light Photoredox Câˆ’C Bond Cleavage and Dehydrogenation Catalysis. Angewandte Chemie - International Edition, 2019, 58, 3456-3460.	7.2	93
85	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesdenâ€“Popper Perovskites for Non-volatile Memories. Journal of Physical Chemistry Letters, 2020, 11, 463-470.	2.1	90
86	Highâ€Pressureâ€Induced Comminution and Recrystallization of CH₃NH₃PbBr₃ Nanocrystals as Large Thin Nanoplates. Advanced Materials, 2018, 30, 1705017.	11.1	89
87	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. Nanoscale, 2016, 8, 6352-6360.	2.8	88
88	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. Nature Communications, 2019, 10, 484.	5.8	88
89	Hierarchically branched Fe₂O₃@TiO₂nanorod arrays for photoelectrochemical water splitting: facile synthesis and enhanced photoelectrochemical performance. Nanoscale, 2016, 8, 11284-11290.	2.8	87
90	Perovskite as a Platform for Active Flexible Metaphotonic Devices. ACS Photonics, 2017, 4, 1595-1601.	3.2	86

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91	In Situ Growth of [hk1]â€Oriented Sb₂S₃ for Solutionâ€Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. Advanced Functional Materials, 2020, 30, 2002887.	7.8	85
92	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hotâ€Casting Method under Ambient Conditions. Advanced Energy Materials, 2018, 8, 1802051.	10.2	84
93	Solutionâ€Processed Lead Iodide for Ultrafast Allâ€Optical Switching of Terahertz Photonic Devices. Advanced Materials, 2019, 31, e1901455.	11.1	81
94	Energy level alignment at the methylammonium lead iodide/copper phthalocyanine interface. APL Materials, 2014, 2, .	2.2	80
95	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
96	Proton beam writing of low-loss polymer optical waveguides. Applied Physics Letters, 2003, 83, 1707-1709.	1.5	75
97	Energetics and dynamics in organicâ€“inorganic halide perovskite photovoltaics and light emitters. Nanotechnology, 2015, 26, 342001.	1.3	75
98	Cation influence on carrier dynamics in perovskite solar cells. Nano Energy, 2019, 58, 604-611.	8.2	75
99	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
100	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. Nanotechnology, 2010, 21, 255701.	1.3	72
101	First-principles study of the lattice dynamics of Sb₂S₃. Physical Chemistry Chemical Physics, 2014, 16, 345-350.	1.3	72
102	Broadbandâ€Emitting 2â€‰D Hybrid Organicâ€“Inorganic Perovskite Based on Cyclohexaneâ€bis(methylamonium) Cation. ChemSusChem, 2017, 10, 3765-3772.	3.6	72
103	Fluorophore-Doped Coreâ€“Multishell Spherical Plasmonic Nanocavities: Resonant Energy Transfer toward a Loss Compensation. ACS Nano, 2012, 6, 6250-6259.	7.3	71
104	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 21292-21297.	4.0	71
105	Designing the Perovskite Structural Landscape for Efficient Blue Emission. ACS Energy Letters, 2020, 5, 1593-1600.	8.8	71
106	Ultrafine Gold Nanowire Networks as Plasmonic Antennae in Organic Photovoltaics. Journal of Physical Chemistry C, 2012, 116, 6453-6458.	1.5	69
107	Compositionâ€Tunable Vertically Aligned CdS_xSe_{1â€x} Nanowire Arrays via van der Waals Epitaxy: Investigation of Optical Properties and Photocatalytic Behavior. Advanced Materials, 2012, 24, 4151-4156.	11.1	69
108	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

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109	Origin of green emission and charge trapping dynamics in ZnO nanowires. Physical Review B, 2013, 87, .	1.1	68
110	Coherent Spin and Quasiparticle Dynamics in Solutionâ€Processed Layered 2D Lead Halide Perovskites. Advanced Science, 2018, 5, 1800664.	5.6	66
111	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
112	Hot carriers perspective on the nature of traps in perovskites. Nature Communications, 2020, 11, 2712.	5.8	65
113	Al₂O₃ Surface Complexation for Photocatalytic Organic Transformations. Journal of the American Chemical Society, 2017, 139, 269-276.	6.6	64
114	Mesoporous cerium oxide nanospheres for the visible-light driven photocatalytic degradation of dyes. Beilstein Journal of Nanotechnology, 2014, 5, 517-523.	1.5	62
115	Erbium-doped waveguide amplifiers fabricated using focused proton beam writing. Applied Physics Letters, 2004, 84, 684-686.	1.5	61
116	Proton beam writing of passive waveguides in PMMA. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 266-271.	0.6	59
117	Critical role of chloride in organic ammonium spacer on the performance of Low-dimensional Ruddlesden-Popper perovskite solar cells. Nano Energy, 2019, 56, 373-381.	8.2	59
118	Reduced efficiency roll-off in phosphorescent organic light emitting diodes at ultrahigh current densities by suppression of triplet-polaron quenching. Applied Physics Letters, 2008, 93, .	1.5	58
119	Role of Electronâ€“Phonon 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
120	Giant second-harmonic generation in ferroelectric NbOI2. Nature Photonics, 2022, 16, 644-650.	15.6	57
121	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. Physical Chemistry Chemical Physics, 2012, 14, 3075.	1.3	56
122	Dual Wavelength Electroluminescence from CdSe/CdS Tetrapods. ACS Nano, 2014, 8, 2873-2879.	7.3	56
123	Origin of Photocarrier Losses in Iron Pyrite (FeS₂) Nanocubes. ACS Nano, 2016, 10, 4431-4440.	7.3	56
124	Ultrathin Highly Luminescent Twoâ€Monolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028.	7.8	56
125	Hot carrier extraction in CH ₃ NH ₃ PbI ₃ unveiled by pump-push-probe spectroscopy. Science Advances, 2019, 5, eaax3620.	4.7	56
126	Charge transfer dynamics in Cu-doped ZnO nanowires. Applied Physics Letters, 2011, 98, .	1.5	55

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127	Colorimetric Detection of Creatinine Based on Plasmonic Nanoparticles via Synergistic Coordination Chemistry. Small, 2015, 11, 4104-4110.	5.2	54
128	Efficient recycling of trapped energies for dual-emission in Mn-doped perovskite nanocrystals. Nano Energy, 2018, 51, 704-710.	8.2	54
129	Size-Dependent Exciton Recombination Dynamics in Single CdS Nanowires beyond the Quantum Confinement Regime. Journal of Physical Chemistry C, 2013, 117, 10716-10722.	1.5	52
130	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. Advanced Materials, 2020, 32, e1907864.	11.1	51
131	Prolonged Electron Lifetime in Ordered TiO₂ Mesophyll Cellâ€Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. Small, 2016, 12, 2291-2299.	5.2	50
132	A comparative study of the effect of oxidative stress on the cytoskeleton in human cortical neurons. Toxicology and Applied Pharmacology, 2004, 196, 29-36.	1.3	49
133	Proton beam writing: a progress review. International Journal of Nanotechnology, 2004, 1, 464.	0.1	47
134	Efficiency Enhancement in Bulk-Heterojunction Solar Cells Integrated with Large-Area Ag Nanotriangle Arrays. Journal of Physical Chemistry C, 2012, 116, 14820-14825.	1.5	46
135	Evolution of hydrogen by few-layered black phosphorus under visible illumination. Journal of Materials Chemistry A, 2017, 5, 24874-24879.	5.2	45
136	Plasmonic enhanced photoelectrochemical and photocatalytic performances of 1D coaxial Ag@Ag₂S hybrids. Journal of Materials Chemistry A, 2017, 5, 21570-21578.	5.2	45
137	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@Cd_{1â^'x}Zn_xS colloidal core/crown@alloyed-shell quantum wells. Nanoscale, 2019, 11, 301-310.	2.8	44
138	A progress review of proton beam writing applications in microphotonics. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 364-371.	0.6	43
139	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. Journal of Physical Chemistry C, 2011, 115, 17711-17716.	1.5	43
140	Highly Enhanced Exciton Recombination Rate by Strong Electronâ€“Phonon Coupling in Single ZnTe Nanobelt. Nano Letters, 2012, 12, 6420-6427.	4.5	43
141	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. ACS Nano, 2015, 9, 5018-5026.	7.3	43
142	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. Nanoscale, 2018, 10, 9466-9475.	2.8	43
143	Electrically control amplified spontaneous emission in colloidal quantum dots. Science Advances, 2019, 5, eaav3140.	4.7	43
144	Phononâ€Assisted Antiâ€Stokes Lasing in ZnTe Nanoribbons. Advanced Materials, 2016, 28, 276-283.	11.1	41

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145	Hot Carriers in Halide Perovskites: How Hot Truly?. Journal of Physical Chemistry Letters, 2020, 11, 2743-2750.	2.1	41
146	Electronic States Modulation by Coherent Optical Phonons in 2D Halide Perovskites. Advanced Materials, 2021, 33, e2006233.	11.1	41
147	Spacer Cation Alloying in Ruddlesdenâ€“Popper Perovskites for Efficient Red Lightâ€Emitting Diodes with Precisely Tunable Wavelengths. Advanced Materials, 2021, 33, e2104381.	11.1	41
148	Inducing formation of a corrugated, white-light emitting 2D lead-bromide perovskite via subtle changes in templating cation. Journal of Materials Chemistry C, 2020, 8, 889-893.	2.7	40
149	Precise Control of CsPbBr₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. Chemistry of Materials, 2021, 33, 2387-2397.	3.2	40
150	Sub-single exciton optical gain threshold in colloidal semiconductor quantum wells with gradient alloy shelling. Nature Communications, 2020, 11, 3305.	5.8	39
151	Proton beam micromachining: a new tool for precision three-dimensional microstructures. Sensors and Actuators A: Physical, 2001, 92, 370-374.	2.0	38
152	Improving Photocatalytic H₂ Evolution of TiO₂ via Formation of {001}â€“{010} Quasi-Heterojunctions. Journal of Physical Chemistry C, 2013, 117, 22894-22902.	1.5	38
153	Synergistic capacitive behavior between polyaniline and carbon black. Electrochimica Acta, 2017, 230, 236-244.	2.6	38
154	Ultrafast long-range spin-funneling in solution-processed Ruddlesdenâ€“Popper halide perovskites. Nature Communications, 2019, 10, 3456.	5.8	38
155	Coupling halide perovskites with different materials: From doping to nanocomposites, beyond photovoltaics. Progress in Materials Science, 2020, 110, 100639.	16.0	38
156	Low Threshold, Amplified Spontaneous Emission from Coreâ€Seeded Semiconductor Nanotetrapods Incorporated into a Solâ€“Gel Matrix. Advanced Materials, 2012, 24, OP159-64.	11.1	37
157	Temperature effect of the compact TiO2 layer in planar perovskite solar cells: An interfacial electrical, optical and carrier mobility study. Solar Energy Materials and Solar Cells, 2017, 163, 242-249.	3.0	36
158	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. Communications Physics, 2019, 2, .	2.0	36
159	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. Applied Physics Letters, 2010, 97, .	1.5	35
160	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. Advanced Materials, 2019, 31, e1904243.	11.1	35
161	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
162	The photophysics of Ruddlesden-Popper perovskites: A tale of energy, charges, and spins. Applied Physics Reviews, 2021, 8, .	5.5	34

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