

T C Sum

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291
papers

26,750
citations

75
h-index

159
g-index

319
ext. papers

30,081
ext. citations

10.6
avg, IF

7.23
L-index

#	Paper	IF	Citations
291	Long-range balanced electron- and hole-transport lengths in organic-inorganic CH ₃ NH ₃ PbI ₃ . <i>Science</i> , 2013 , 342, 344-7	33.3	5214
290	Low-temperature solution-processed wavelength-tunable perovskites for lasing. <i>Nature Materials</i> , 2014 , 13, 476-80	27	2291
289	Perovskite Materials for Light-Emitting Diodes and Lasers. <i>Advanced Materials</i> , 2016 , 28, 6804-34	24	946
288	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 399-407	35.4	838
287	Advancements in perovskite solar cells: photophysics behind the photovoltaics. <i>Energy and Environmental Science</i> , 2014 , 7, 2518-2534	35.4	605
286	Room-temperature near-infrared high-Q perovskite whispering-gallery planar nanolasers. <i>Nano Letters</i> , 2014 , 14, 5995-6001	11.5	579
285	Formamidinium-Containing Metal-Halide: An Alternative Material for Near-IR Absorption Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16458-16462	3.8	554
284	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016 , 26, 6238-6245	15.6	406
283	Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. <i>Nano Letters</i> , 2015 , 15, 4571-7	11.5	361
282	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. <i>Nature Communications</i> , 2017 , 8, 14558	17.4	356
281	Solar-to-fuels conversion over In ₂ O ₃ /g-C ₃ N ₄ hybrid photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 940-946	21.8	328
280	Synthesis of Organic-Inorganic Lead Halide Perovskite Nanoplatelets: Towards High-Performance Perovskite Solar Cells and Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2014 , 2, 838-844	8.1	316
279	Defect Engineered g-C ₃ N ₄ for Efficient Visible Light Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2015 , 27, 4930-4933	9.6	308
278	The Physics of ultrafast saturable absorption in graphene. <i>Optics Express</i> , 2010 , 18, 4564-73	3.3	256
277	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. <i>Advanced Functional Materials</i> , 2013 , 23, 2932-2940	15.6	255
276	A room temperature low-threshold ultraviolet plasmonic nanolaser. <i>Nature Communications</i> , 2014 , 5, 4953	17.4	236
275	Hot carrier cooling mechanisms in halide perovskites. <i>Nature Communications</i> , 2017 , 8, 1300	17.4	233

274	Surface plasmon enhanced band edge luminescence of ZnO nanorods by capping Au nanoparticles. <i>Applied Physics Letters</i> , 2010 , 96, 071107	3.4	218
273	Correlated d0 ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 112511	3.4	215
272	Discerning the Surface and Bulk Recombination Kinetics of Organic-Inorganic Halide Perovskite Single Crystals. <i>Advanced Energy Materials</i> , 2016 , 6, 1600551	21.8	214
271	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	24	210
270	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , 2008 , 20, 3521-3527	24	200
269	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. <i>Nature Communications</i> , 2017 , 8, 14350	17.4	196
268	Chemical Vapor Deposition of Large-Size Monolayer MoSe Crystals on Molten Glass. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1073-1076	16.4	196
267	Charge Accumulation and Hysteresis in Perovskite-Based Solar Cells: An Electro-Optical Analysis. <i>Advanced Energy Materials</i> , 2015 , 5, 1500829	21.8	196
266	A Photonic Crystal Laser from Solution Based Organo-Lead Iodide Perovskite Thin Films. <i>ACS Nano</i> , 2016 , 10, 3959-67	16.7	188
265	A large area (70 cm ²) monolithic perovskite solar module with a high efficiency and stability. <i>Energy and Environmental Science</i> , 2016 , 9, 3687-3692	35.4	187
264	Aligned and Graded Type-II Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1800185	21.8	184
263	Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018 , 30, e1706246	24	175
262	Solution-Processed Tin-Based Perovskite for Near-Infrared Lasing. <i>Advanced Materials</i> , 2016 , 28, 8191-8196	24	174
261	Interfacial Electron Transfer Barrier at Compact TiO ₂ /CH ₃ NH ₃ PbI ₃ Heterojunction. <i>Small</i> , 2015 , 11, 3606-13	11	168
260	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9579-9585	3.8	160
259	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Exciton-Phonon Coupling to the Organic Framework. <i>Chemistry of Materials</i> , 2017 , 29, 3947-3953	9.6	146
258	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. <i>Joule</i> , 2020 , 4, 1035-1053	17.8	145
257	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped In ₂ O ₃ nanostructures. <i>Physical Review B</i> , 2009 , 79,	3.3	145

256	Ultrafast charge transfer in MoS ₂ /WSe ₂ p-n Heterojunction. <i>2D Materials</i> , 2016 , 3, 025020	5.9	144
255	Engineering interfacial photo-induced charge transfer based on nanobamboo array architecture for efficient solar-to-chemical energy conversion. <i>Advanced Materials</i> , 2015 , 27, 2207-14	24	141
254	Highly spin-polarized carrier dynamics and ultralarge photoinduced magnetization in CH ₃ NH ₃ PbI ₃ perovskite thin films. <i>Nano Letters</i> , 2015 , 15, 1553-8	11.5	130
253	Order-disorder transition in a two-dimensional boron-carbon-nitride alloy. <i>Nature Communications</i> , 2013 , 4, 2681	17.4	125
252	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. <i>Nature Communications</i> , 2017 , 8, 15198	17.4	124
251	Long Minority-Carrier Diffusion Length and Low Surface-Recombination Velocity in Inorganic Lead-Free CsSnI ₃ Perovskite Crystal for Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1604818	15.6	124
250	Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2122-2128	13	123
249	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. <i>Scientific Reports</i> , 2016 , 6, 25771	4.9	122
248	Photon upconversion in hetero-nanostructured photoanodes for enhanced near-infrared light harvesting. <i>Advanced Materials</i> , 2013 , 25, 1603-7	24	119
247	3R MoS ₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. <i>Advanced Materials</i> , 2017 , 29, 1701486	24	118
246	Wavelength tunable single nanowire lasers based on surface plasmon polariton enhanced Burstein-Moss effect. <i>Nano Letters</i> , 2013 , 13, 5336-43	11.5	118
245	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. <i>Small</i> , 2013 , 9, 996-1002	11	118
244	The formation of a carbon nanotube-graphene oxide core-shell structure and its possible applications. <i>Carbon</i> , 2011 , 49, 5071-5078	10.4	118
243	Hybrid Lead Halide Perovskites for Ultrasensitive Photoactive Switching in Terahertz Metamaterial Devices. <i>Advanced Materials</i> , 2017 , 29, 1605881	24	116
242	Spectral Features and Charge Dynamics of Lead Halide Perovskites: Origins and Interpretations. <i>Accounts of Chemical Research</i> , 2016 , 49, 294-302	24.3	116
241	Tailoring the lasing modes in semiconductor nanowire cavities using intrinsic self-absorption. <i>Nano Letters</i> , 2013 , 13, 1080-5	11.5	112
240	Dynamics of bound exciton complexes in CdS nanobelts. <i>ACS Nano</i> , 2011 , 5, 3660-9	16.7	112
239	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO ₂ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14973-14982	3.8	111

238	Ultralow-threshold two-photon pumped amplified spontaneous emission and lasing from seeded CdSe/CdS nanorod heterostructures. <i>ACS Nano</i> , 2012 , 6, 10835-44	16.7	105
237	Uncovering loss mechanisms in silver nanoparticle-blended plasmonic organic solar cells. <i>Nature Communications</i> , 2013 , 4, 2004	17.4	105
236	Highly stable, luminescent core-shell type methylammonium-octylammonium lead bromide layered perovskite nanoparticles. <i>Chemical Communications</i> , 2016 , 52, 7118-21	5.8	105
235	Slow Hot-Carrier Cooling in Halide Perovskites: Prospects for Hot-Carrier Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1802486	24	104
234	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016 , 6, 36733	4.9	103
233	Giant enhancement of top emission from ZnO thin film by nanopatterned Pt. <i>Applied Physics Letters</i> , 2009 , 94, 151102	3.4	100
232	Whispering gallery mode lasing from hexagonal shaped layered lead iodide crystals. <i>ACS Nano</i> , 2015 , 9, 687-95	16.7	98
231	Spatial Separation of Charge Carriers in In ₂ O ₃ -x(OH) _y Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , 2016 , 10, 5578-86	16.7	95
230	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
229	Artificial photosynthetic hydrogen evolution over g-C ₃ N ₄ nanosheets coupled with cobaloxime. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18363-6	3.6	93
228	Achieving Ultrafast Hole Transfer at the Monolayer MoS ₂ and CH ₃ NH ₃ PbI ₃ Perovskite Interface by Defect Engineering. <i>ACS Nano</i> , 2016 , 10, 6383-91	16.7	90
227	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. <i>Advanced Science</i> , 2016 , 3, 1600137	13.6	89
226	Limitations of CsBiI ₄ as Lead-Free Photovoltaic Absorber Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35000-35007	9.5	85
225	Cu ₂ ZnSn(S,Se) ₄ kesterite solar cell with 5.1% efficiency using spray pyrolysis of aqueous precursor solution followed by selenization. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 124, 55-60	6.4	85
224	Benzyl Alcohol-Treated CH ₃ NH ₃ PbBr Nanocrystals Exhibiting High Luminescence, Stability, and Ultralow Amplified Spontaneous Emission Thresholds. <i>Nano Letters</i> , 2017 , 17, 7424-7432	11.5	85
223	The soy isoflavone, genistein, protects human cortical neuronal cells from oxidative stress. <i>NeuroToxicology</i> , 2004 , 25, 885-91	4.4	82
222	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	13	81
221	Hierarchically branched Fe ₂ O ₃ @TiO ₂ nanorod arrays for photoelectrochemical water splitting: facile synthesis and enhanced photoelectrochemical performance. <i>Nanoscale</i> , 2016 , 8, 11284-90	7.7	79

220	Tunable room-temperature spin-selective optical Stark effect in solution-processed layered halide perovskites. <i>Science Advances</i> , 2016 , 2, e1600477	14.3	78
219	Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Films. <i>Advanced Optical Materials</i> , 2019 , 7, 1801732	8.1	77
218	Upconversion amplification through dielectric superlensing modulation. <i>Nature Communications</i> , 2019 , 10, 1391	17.4	76
217	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6352-60	7.7	76
216	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , 2018 , 2, 537-548	27.8	74
215	Low threshold and efficient multiple exciton generation in halide perovskite nanocrystals. <i>Nature Communications</i> , 2018 , 9, 4197	17.4	74
214	Enhanced Exciton and Photon Confinement in Ruddlesden-Popper Perovskite Microplatelets for Highly Stable Low-Threshold Polarized Lasing. <i>Advanced Materials</i> , 2018 , 30, e1707235	24	73
213	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018 , 30, 1705017	24	73
212	Energy level alignment at the methylammonium lead iodide/copper phthalocyanine interface. <i>APL Materials</i> , 2014 , 2, 081512	5.7	70
211	Fluorophore-doped core-multishell spherical plasmonic nanocavities: resonant energy transfer toward a loss compensation. <i>ACS Nano</i> , 2012 , 6, 6250-9	16.7	70
210	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. <i>Nanotechnology</i> , 2010 , 21, 255701	3.4	69
209	"Electron/Ion Sponge"-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. <i>ACS Nano</i> , 2017 , 11, 6911-6920	16.7	66
208	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organic-Inorganic Perovskite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15972-15976	16.4	65
207	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. <i>Chemistry of Materials</i> , 2019 , 31, 9003-9011	9.6	65
206	Ultrafine Gold Nanowire Networks as Plasmonic Antennae in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6453-6458	3.8	65
205	Composition-tunable vertically aligned CdS(x)Se(1-x) nanowire arrays via van der Waals epitaxy: investigation of optical properties and photocatalytic behavior. <i>Advanced Materials</i> , 2012 , 24, 4151-6	24	65
204	Perovskite as a Platform for Active Flexible Metaphotonic Devices. <i>ACS Photonics</i> , 2017 , 4, 1595-1601	6.3	62
203	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	16.4	62

202	Energetics and dynamics in organic-inorganic halide perovskite photovoltaics and light emitters. <i>Nanotechnology</i> , 2015 , 26, 342001	3.4	61
201	Origin of green emission and charge trapping dynamics in ZnO nanowires. <i>Physical Review B</i> , 2013 , 87,	3.3	61
200	Proton beam writing of low-loss polymer optical waveguides. <i>Applied Physics Letters</i> , 2003 , 83, 1707-1709	3.4	61
199	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (CH ₃ NH ₃)PbI ₃ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1235-1241	16.4	61
198	Broadband-Emitting 2 D Hybrid Organic-Inorganic Perovskite Based on Cyclohexane-bis(methylammonium) Cation. <i>ChemSusChem</i> , 2017 , 10, 3765-3772	8.3	59
197	New insight into the roles of oxygen vacancies in hematite for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1074-1082	3.6	59
196	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. <i>Nature Communications</i> , 2019 , 10, 484	17.4	58
195	Cation influence on carrier dynamics in perovskite solar cells. <i>Nano Energy</i> , 2019 , 58, 604-611	17.1	56
194	Strong coupling and pressure engineering in WSe ₂ /MoSe ₂ heterobilayers. <i>Nature Physics</i> , 2021 , 17, 92-98	16.2	56
193	Al ₂ O ₃ Surface Complexation for Photocatalytic Organic Transformations. <i>Journal of the American Chemical Society</i> , 2017 , 139, 269-276	16.4	55
192	First-principles study of the lattice dynamics of Sb ₂ S ₃ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 345-50	3.6	55
191	Erbium-doped waveguide amplifiers fabricated using focused proton beam writing. <i>Applied Physics Letters</i> , 2004 , 84, 684-686	3.4	55
190	Dominant factors limiting the optical gain in layered two-dimensional halide perovskite thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14701-8	3.6	55
189	Facile Method to Reduce Surface Defects and Trap Densities in Perovskite Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21292-21297	9.5	54
188	Excitons in 2D perovskites for ultrafast terahertz photonic devices. <i>Science Advances</i> , 2020 , 6, eaax8821	14.3	53
187	Mesoporous cerium oxide nanospheres for the visible-light driven photocatalytic degradation of dyes. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 517-523	3	53
186	Origin of Photocarrier Losses in Iron Pyrite (FeS ₂) Nanocubes. <i>ACS Nano</i> , 2016 , 10, 4431-40	16.7	52
185	Reduced efficiency roll-off in phosphorescent organic light emitting diodes at ultrahigh current densities by suppression of triplet-polaron quenching. <i>Applied Physics Letters</i> , 2008 , 93, 023309	3.4	51

184	Proton beam writing of passive waveguides in PMMA. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 210, 266-271	1.2	50
183	Dual wavelength electroluminescence from CdSe/CdS tetrapods. <i>ACS Nano</i> , 2014 , 8, 2873-9	16.7	49
182	Solution-Processed Lead Iodide for Ultrafast All-Optical Switching of Terahertz Photonic Devices. <i>Advanced Materials</i> , 2019 , 31, e1901455	24	48
181	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3075-82	3.6	48
180	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1802051	21.8	48
179	Charge transfer dynamics in Cu-doped ZnO nanowires. <i>Applied Physics Letters</i> , 2011 , 98, 102105	3.4	47
178	Completely Solvent-free Protocols to Access Phase-Pure, Metastable Metal Halide Perovskites and Functional Photodetectors from the Precursor Salts. <i>IScience</i> , 2019 , 16, 312-325	6.1	46
177	Prolonged Electron Lifetime in Ordered TiO ₂ Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. <i>Small</i> , 2016 , 12, 2291-9	11	45
176	Efficiency Enhancement in Bulk-Heterojunction Solar Cells Integrated with Large-Area Ag Nanotriangle Arrays. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14820-14825	3.8	45
175	A comparative study of the effect of oxidative stress on the cytoskeleton in human cortical neurons. <i>Toxicology and Applied Pharmacology</i> , 2004 , 196, 29-36	4.6	44
174	Interfacial Mechanism for Efficient Resistive Switching in Ruddlesden-Popper Perovskites for Non-volatile Memories. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 463-470	6.4	44
173	Size-Dependent Exciton Recombination Dynamics in Single CdS Nanowires beyond the Quantum Confinement Regime. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10716-10722	3.8	43
172	Proton beam writing: a progress review. <i>International Journal of Nanotechnology</i> , 2004 , 1, 464	1.5	43
171	Efficient recycling of trapped energies for dual-emission in Mn-doped perovskite nanocrystals. <i>Nano Energy</i> , 2018 , 51, 704-710	17.1	43
170	In Situ Growth of [hk1]-Oriented Sb ₂ S ₃ for Solution-Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. <i>Advanced Functional Materials</i> , 2020 , 30, 2002887	15.6	42
169	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. <i>Advanced Functional Materials</i> , 2019 , 29, 1901028	15.6	40
168	A progress review of proton beam writing applications in microphotronics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 231, 364-371	1.2	40
167	Colorimetric Detection of Creatinine Based on Plasmonic Nanoparticles via Synergistic Coordination Chemistry. <i>Small</i> , 2015 , 11, 4104-10	11	39

166	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17711-17716	3.8	39
165	Coherent Spin and Quasiparticle Dynamics in Solution-Processed Layered 2D Lead Halide Perovskites. <i>Advanced Science</i> , 2018 , 5, 1800664	13.6	38
164	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24874-24879	13	37
163	Hot carrier extraction in CHNHPbI unveiled by pump-push-probe spectroscopy. <i>Science Advances</i> , 2019 , 5, eaax3620	14.3	37
162	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@CdZnS colloidal core/crown@alloyed-shell quantum wells. <i>Nanoscale</i> , 2018 , 11, 301-310	7.7	36
161	Highly enhanced exciton recombination rate by strong electron-phonon coupling in single ZnTe nanobelt. <i>Nano Letters</i> , 2012 , 12, 6420-7	11.5	36
160	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	17.1	36
159	Designing the Perovskite Structural Landscape for Efficient Blue Emission. <i>ACS Energy Letters</i> , 2020 , 5, 1593-1600	20.1	36
158	Proton beam micromachining: a new tool for precision three-dimensional microstructures. <i>Sensors and Actuators A: Physical</i> , 2001 , 92, 370-374	3.9	35
157	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. <i>ACS Nano</i> , 2015 , 9, 5018-26	16.7	34
156	Hot carriers perspective on the nature of traps in perovskites. <i>Nature Communications</i> , 2020 , 11, 2712	17.4	34
155	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907864	24	34
154	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. <i>Nanoscale</i> , 2018 , 10, 9466-9475	7.7	33
153	Improving Photocatalytic H ₂ Evolution of TiO ₂ via Formation of {001}{101} Quasi-Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22894-22902	3.8	33
152	Plasmonic enhanced photoelectrochemical and photocatalytic performances of 1D coaxial Ag@Ag ₂ S hybrids. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21570-21578	13	33
151	Low threshold, amplified spontaneous emission from core-seeded semiconductor nanotetrapods incorporated into a sol-gel matrix. <i>Advanced Materials</i> , 2012 , 24, OP159-64	24	32
150	Synergistic capacitive behavior between polyaniline and carbon black. <i>Electrochimica Acta</i> , 2017 , 230, 236-244	6.7	31
149	Role of Electron-Phonon Coupling in the Thermal Evolution of Bulk Rashba-Like Spin-Split Lead Halide Perovskites Exhibiting Dual-Band Photoluminescence. <i>ACS Energy Letters</i> , 2019 , 4, 2205-2212	20.1	31

148	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	6.4	30
147	Elucidating the localized plasmonic enhancement effects from a single Ag nanowire in organic solar cells. <i>ACS Nano</i> , 2014 , 8, 10101-10	16.7	30
146	Experimental and theoretical studies on pyrene-grafted polyoxometalate hybrid. <i>Dalton Transactions</i> , 2012 , 41, 12185-91	4.3	30
145	Synthesis and Characterization of Mn:ZnSe/ZnS/ZnMnS Sandwiched QDs for Multimodal Imaging and Theranostic Applications. <i>Small</i> , 2016 , 12, 534-46	11	30
144	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021 , 7,	14.3	30
143	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. <i>Applied Physics Letters</i> , 2010 , 97, 061112	3.4	29
142	A LabVIEW-based scanning and control system for proton beam micromachining. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 181, 49-53	1.2	29
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