

Chunfeng Zhang

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172
papers

8,205
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44
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86
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181
ext. papers

10,214
ext. citations

10.1
avg, IF

6.18
L-index

#	Paper	IF	Citations
172	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016 , 7, 13651	17.4	822
171	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(ii) oxidation in precursor ink. <i>Nature Energy</i> , 2019 , 4, 864-873	62.3	463
170	Two-Photon-Pumped Perovskite Semiconductor Nanocrystal Lasers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3761-8	16.4	407
169	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5085-5094	16.4	270
168	Bright Perovskite Nanocrystal Films for Efficient Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4602-4610	6.4	245
167	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. <i>Nature Communications</i> , 2020 , 11, 2726	17.4	236
166	Superior Optical Properties of Perovskite Nanocrystals as Single Photon Emitters. <i>ACS Nano</i> , 2015 , 9, 12410-6	16.7	234
165	All-perovskite tandem solar cells with 24.2% certified efficiency and area over 1 cm ² using surface-anchoring zwitterionic antioxidant. <i>Nature Energy</i> , 2020 , 5, 870-880	62.3	233
164	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1465-1474	16.4	228
163	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1703344	24	182
162	Near-band-edge electroluminescence from heavy-metal-free colloidal quantum dots. <i>Advanced Materials</i> , 2011 , 23, 3553-8	24	167
161	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. <i>Chemistry of Materials</i> , 2017 , 29, 7543-7553	9.6	164
160	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019 , 10, 519	17.4	153
159	Phase segregation due to ion migration in all-inorganic mixed-halide perovskite nanocrystals. <i>Nature Communications</i> , 2019 , 10, 1088	17.4	150
158	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6. <i>Advanced Materials</i> , 2021 , 33, e2101733	24	145
157	Single-crystalline, ultrathin ZnGa(2)O(4) nanosheet scaffolds to promote photocatalytic activity in CO(2) reduction into methane. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2356-61	9.5	131
156	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13277-13282	16.4	117

155	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. <i>Energy and Environmental Science</i> , 2020 , 13, 5017-5027	35.4	117
154	Single-particle spectroscopic measurements of fluorescent graphene quantum dots. <i>ACS Nano</i> , 2013 , 7, 10654-61	16.7	116
153	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1905480	24	113
152	All-perovskite tandem solar cells with improved grain surface passivation.. <i>Nature</i> , 2022 ,	50.4	112
151	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2019 , 31, e1904215	24	108
150	Charge Separation from an Intra-Moiety Intermediate State in the High-Performance PM6:Y6 Organic Photovoltaic Blend. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12751-12759	16.4	105
149	Slow Auger Recombination of Charged Excitons in Nonblinking Perovskite Nanocrystals without Spectral Diffusion. <i>Nano Letters</i> , 2016 , 16, 6425-6430	11.5	104
148	Enabling long-lived organic room temperature phosphorescence in polymers by subunit interlocking. <i>Nature Communications</i> , 2019 , 10, 4247	17.4	99
147	Low-threshold two-photon pumped ZnO nanowire lasers. <i>Optics Express</i> , 2009 , 17, 7893-900	3.3	96
146	Efficient perovskite/fullerene planar heterojunction solar cells with enhanced charge extraction and suppressed charge recombination. <i>Nanoscale</i> , 2015 , 7, 9771-8	7.7	93
145	Bright-Exciton Fine-Structure Splittings in Single Perovskite Nanocrystals. <i>Physical Review Letters</i> , 2017 , 119, 026401	7.4	90
144	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX ₃ Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019 , 7, 1900276	8.1	83
143	Femtosecond pulse excited two-photon photoluminescence and second harmonic generation in ZnO nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 042117	3.4	65
142	Excessive Exoergicity Reduces Singlet Exciton Fission Efficiency of Heteroacenes in Solutions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6739-45	16.4	62
141	Oriented and Uniform Distribution of Dion-Jacobson Phase Perovskites Controlled by Quantum Well Barrier Thickness. <i>Solar Rrl</i> , 2019 , 3, 1900090	7.1	61
140	Composition-Dependent Energy Splitting between Bright and Dark Excitons in Lead Halide Perovskite Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 2074-2080	11.5	59
139	Ultrafast Channel II process induced by a 3-D texture with enhanced acceptor order ranges for high-performance non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 2569-2580	35.4	59
138	A Small-Molecule "Charge Driver" enables Perovskite Quantum Dot Solar Cells with Efficiency Approaching 13. <i>Advanced Materials</i> , 2019 , 31, e1900111	24	58

137	Enhancing Luminescence and Photostability of CsPbBr ₃ Nanocrystals via Surface Passivation with Silver Complex. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12994-13000	3.8	55
136	Efficient plasmon-hot electron conversion in Ag-CsPbBr hybrid nanocrystals. <i>Nature Communications</i> , 2019 , 10, 1163	17.4	54
135	Manipulating the D:A interfacial energetics and intermolecular packing for 19.2% efficiency organic photovoltaics. <i>Energy and Environmental Science</i> ,	35.4	54
134	Phthalimide Polymer Donor Guests Enable over 17% Efficient Organic Solar Cells via Parallel-Like Ternary and Quaternary Strategies. <i>Advanced Energy Materials</i> , 2020 , 10, 2001436	21.8	53
133	Multiphoton route to ZnO nanowire lasers. <i>Optics Letters</i> , 2006 , 31, 3345-7	3	53
132	Feasible D1A/D2A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702166	21.8	53
131	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3248-3253	6.4	50
130	Efficient lead acetate sourced planar heterojunction perovskite solar cells with enhanced substrate coverage via one-step spin-coating. <i>Organic Electronics</i> , 2016 , 33, 194-200	3.5	45
129	Magnetic dipolar interaction between correlated triplets created by singlet fission in tetracene crystals. <i>Nature Communications</i> , 2015 , 6, 8602	17.4	45
128	A Covalently Linked Tetracene Trimer: Synthesis and Singlet Exciton Fission Property. <i>Organic Letters</i> , 2017 , 19, 580-583	6.2	44
127	Raman spectra of single micrometer-sized tubular ZnO. <i>Materials Chemistry and Physics</i> , 2006 , 99, 160-163	3.4	42
126	Colloidal nanocrystal-based light-emitting diodes fabricated on plastic toward flexible quantum dot optoelectronics. <i>Journal of Applied Physics</i> , 2009 , 105, 034312	2.5	41
125	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. <i>Nature Communications</i> , 2019 , 10, 398	17.4	39
124	Lasing from colloidal InP/ZnS quantum dots. <i>Optics Express</i> , 2011 , 19, 5528-35	3.3	38
123	Two-photon-pumped lasing from colloidal nanocrystal quantum dots. <i>Optics Letters</i> , 2008 , 33, 2437-9	3	38
122	Observation of two-photon-induced photoluminescence in ZnO microtubes. <i>Applied Physics Letters</i> , 2005 , 87, 051920	3.4	37
121	Carrier Multiplication in a Single Semiconductor Nanocrystal. <i>Physical Review Letters</i> , 2016 , 116, 106404	7.4	34
120	Integration of planar and bulk heterojunctions in polymer/nanocrystal hybrid photovoltaic cells. <i>Applied Physics Letters</i> , 2009 , 95, 063510	3.4	33

119	FRET excited ratiometric oxygen sensing in living tissue. <i>Journal of Neuroscience Methods</i> , 2013 , 214, 45-51	3	31
118	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust FeO Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10141-10146	9.5	30
117	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. <i>Joule</i> , 2021 , 5, 1832-1844	27.8	30
116	Optical Gain from Biexcitons in CsPbBr Nanocrystals Revealed by Two-dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1251-1258	6.4	30
115	Oxygen and seizure dynamics: I. Experiments. <i>Journal of Neurophysiology</i> , 2014 , 112, 205-12	3.2	29
114	Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001832	21.8	29
113	Insights into constitutional isomeric effects on donor-acceptor intermolecular arrangements in non-fullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18468-18479	13	28
112	Singlet exciton fission in a linear tetracene tetramer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3245-3253	3.1	26
111	Synthesis of Bi ₆ Mo ₂ O ₁₅ sub-microwires via a molten salt method and enhancing the photocatalytic reduction of CO ₂ into solar fuel through tuning the surface oxide vacancies by simple post-heating treatment. <i>CrystEngComm</i> , 2013 , 15, 9855	3.3	26
110	Nonradiative energy transfer between colloidal quantum dot-phosphors and nanopillar nitride LEDs. <i>Optics Express</i> , 2012 , 20 Suppl 2, A333-9	3.3	24
109	Frequency-upconverted whispering-gallery-mode lasing in ZnO hexagonal nanodisks. <i>Optics Letters</i> , 2009 , 34, 3349-51	3	24
108	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4359-4366	16.4	24
107	Coherent optical phonon oscillation and possible electronic softening in WTe ₂ crystals. <i>Scientific Reports</i> , 2016 , 6, 30487	4.9	24
106	Quantum Interference in a Single Perovskite Nanocrystal. <i>Nano Letters</i> , 2019 , 19, 4442-4447	11.5	23
105	Ultralow-Threshold Single-Mode Lasing from Phase-Pure CdSe/CdS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4968-4976	6.4	23
104	Mott behavior in KxFe ₂ Se ₂ superconductors studied by pump-probe spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	23
103	Polarization-dependent exciton dynamics in tetracene single crystals. <i>Journal of Chemical Physics</i> , 2014 , 141, 244303	3.9	23
102	Carrier multiplication in semiconductor nanocrystals detected by energy transfer to organic dye molecules. <i>Nature Communications</i> , 2012 , 3, 1170	17.4	23

101	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers.. <i>Nature Communications</i> , 2022 , 13, 2369	17.4	23
100	Photon antibunching in a cluster of giant CdSe/CdS nanocrystals. <i>Nature Communications</i> , 2018 , 9, 1536	17.4	22
99	Multiphoton absorption induced amplified spontaneous emission from biocatalyst-synthesized ZnO nanorods. <i>Applied Physics Letters</i> , 2008 , 92, 233116	3.4	22
98	Ultrafast Carrier Dynamics and Efficient Triplet Generation in Black Phosphorus Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12972-12978	3.8	21
97	Large optical nonlinearity induced by singlet fission in pentacene films. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6222-6	16.4	21
96	De novo design of Au(SR) nanoclusters. <i>Nature Communications</i> , 2020 , 11, 3349	17.4	21
95	Efficient thermal conductance in organometallic perovskite CH ₃ NH ₃ PbI ₃ films. <i>Applied Physics Letters</i> , 2016 , 108, 081902	3.4	21
94	Broadband two-dimensional electronic spectroscopy in an actively phase stabilized pump-probe configuration. <i>Optics Express</i> , 2017 , 25, 21115-21126	3.3	20
93	An integrated artificial photosynthesis system based on peptide nanotubes. <i>Nanoscale</i> , 2014 , 6, 7832-7	7.7	19
92	A dye-free photoelectrochemical solar cell based on BiVO ₄ with a long lifetime of photogenerated carriers. <i>Electrochemistry Communications</i> , 2012 , 22, 49-52	5.1	19
91	Multiphoton absorption pumped ultraviolet stimulated emission from ZnO microtubes. <i>Applied Physics Letters</i> , 2007 , 91, 142109	3.4	19
90	Ag Au (PET) Nanocluster: Dimeric Assembly of Au (PET) Enabled by Silver Atoms. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13941-13946	16.4	18
89	Broadband optical non-linearity induced by charge-transfer excitons in type-II CdSe/ZnTe nanocrystals. <i>Advanced Materials</i> , 2013 , 25, 4397-402	24	17
88	Effects of reduced exciton diffusion in InGaN/GaN multiple quantum well nanorods. <i>Optics Express</i> , 2012 , 20, 13478-87	3.3	17
87	Optical studies of semiconductor perovskite nanocrystals for classical optoelectronic applications and quantum information technologies: a review. <i>Advanced Photonics</i> , 2020 , 2,	8.1	17
86	Energy Transfer of Biexcitons in a Single Semiconductor Nanocrystal. <i>Nano Letters</i> , 2016 , 16, 2492-6	11.5	17
85	Integration of FeS electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of FeO photoanodes. <i>Chemical Communications</i> , 2018 , 54, 13817-13820	5.8	17
84	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4110-4116	6.4	16

83	The Impact of Carrier Transport Confinement on the Energy Transfer Between InGaN/GaN Quantum-Well Nanorods and Colloidal Nanocrystals. <i>Advanced Functional Materials</i> , 2012 , 22, 3146-3152	15.6	16
82	Excitation dependent two-component spontaneous emission and ultrafast amplified spontaneous emission in dislocation-free InGaN nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 091105	3.4	16
81	High fill factor organic solar cells with increased dielectric constant and molecular packing density. <i>Joule</i> , 2022 ,	27.8	16
80	Free-triplet generation with improved efficiency in tetracene oligomers through spatially separated triplet pair states. <i>Nature Chemistry</i> , 2021 , 13, 559-567	17.6	16
79	Intramolecular singlet fission in a face-to-face stacked tetracene trimer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6330-6336	3.6	15
78	Ultrafast nonlinear optical response of Au:TiO ₂ composite nanoparticle films. <i>Physica B: Condensed Matter</i> , 2005 , 357, 334-339	2.8	15
77	Bright Triplet Self-Trapped Excitons to Dopant Energy Transfer in Halide Double-Perovskite Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 8671-8678	11.5	15
76	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. <i>Nano Energy</i> , 2020 , 75, 105032	17.1	14
75	Nonlinear Density Dependence of Singlet Fission Rate in Tetracene Films. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3462-7	6.4	14
74	Energy transfer from a single semiconductor nanocrystal to dye molecules. <i>ACS Nano</i> , 2014 , 8, 7060-6	16.7	14
73	Enhanced hot-carrier luminescence in multilayer reduced graphene oxide nanospheres. <i>Scientific Reports</i> , 2013 , 3, 2315	4.9	14
72	Frequency upconverted lasing of nanocrystal quantum dots in microbeads. <i>Applied Physics Letters</i> , 2009 , 95, 183109	3.4	14
71	Inhomogeneous Biexciton Binding in Perovskite Semiconductor Nanocrystals Measured with Two-Dimensional Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10173-10181	6.4	14
70	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. <i>Nature Communications</i> , 2021 , 12, 1532	17.4	14
69	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24814-24822	13	14
68	Excitation-tailored dual-color emission of manganese(II)-doped perovskite nanocrystals. <i>Applied Physics Letters</i> , 2019 , 114, 041902	3.4	13
67	Ultrafast studies on the energy relaxation dynamics and the concentration dependence in Ag:Bi ₂ O ₃ nanocomposite films. <i>Chemical Physics Letters</i> , 2005 , 413, 162-167	2.5	13
66	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 667-677	9.5	13

65	Cd-driven surface reconstruction and photodynamics in gold nanoclusters. <i>Chemical Science</i> , 2021 , 12, 3290-3294	9.4	13
64	Ultrafast spectroscopy of quasiparticle dynamics in cuprate superconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 376, 29-39	2.8	12
63	Two-photon excited photoluminescence of single perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019 , 151, 154201	3.9	12
62	Multi-photon excitation UV emission by femtosecond pulses and nonlinearity in ZnO single crystal. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 216202	1.8	12
61	Coherent exciton-phonon coupling in perovskite semiconductor nanocrystals studied by two-dimensional electronic spectroscopy. <i>Applied Physics Letters</i> , 2019 , 115, 243101	3.4	12
60	Direct Z scheme-fashioned photoanode systems consisting of FeO nanorod arrays and underlying thin SbSe layers toward enhanced photoelectrochemical water splitting performance. <i>Nanoscale</i> , 2018 , 11, 109-114	7.7	11
59	Polarized emission from single perovskite FAPbBr ₃ nanocrystals. <i>Journal of Luminescence</i> , 2020 , 221, 117032	3.8	11
58	Bright type-II photoluminescence from Mn-doped CdS/ZnSe/ZnS quantum dots with Mn ions as exciton couplers. <i>Nanoscale</i> , 2017 , 9, 18281-18289	7.7	11
57	Site-specific sonoporation of human melanoma cells at the cellular level using high lateral-resolution ultrasonic micro-transducer arrays. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 25-33	11.8	11
56	Indirect optical transitions in hybrid spheres with alternating layers of titania and graphene oxide nanosheets. <i>Optics Express</i> , 2012 , 20, 28801-7	3.3	11
55	Low-Threshold Amplified Spontaneous Emission and Lasing from Thick-Shell CdSe/CdS Core/Shell Nanoplatelets Enabled by High-Temperature Growth. <i>Advanced Optical Materials</i> , 2020 , 8, 1901615	8.1	11
54	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. <i>Advanced Functional Materials</i> , 2021 , 31, 2100295	10.5	11
53	Defect-induced photoluminescence blinking of single epitaxial InGaAs quantum dots. <i>Scientific Reports</i> , 2015 , 5, 8898	4.9	10
52	Realization of ultrathin red 2D carbon nitride sheets to significantly boost the photoelectrochemical water splitting performance of TiO ₂ photoanodes. <i>Chemical Engineering Journal</i> , 2020 , 396, 125267	14.7	10
51	Heat treatment effect on the ultrafast dynamics and nonlinear optical properties of Ag : Si ₃ N ₄ nanocermet. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4766-4770	3	10
50	Molecular engineering towards efficient white-light-emitting perovskite. <i>Nature Communications</i> , 2021 , 12, 4890	17.4	10
49	Tuning Spin Dynamics in Crystalline Tetracene. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1908-1913	6.4	9
48	Quantum efficiency of stimulated emission in colloidal semiconductor nanocrystal quantum dots. <i>Physical Review B</i> , 2009 , 80,	3.3	8

47	Ultrafast third-order nonlinear optical response of Cu:Bi ₂ O ₃ nanocomposite films. <i>Physica B: Condensed Matter</i> , 2007 , 393, 188-194	2.8	8
46	Y6 and its derivatives: molecular design and physical mechanism. <i>National Science Review</i> , 2021 , 8, nwab1218	12.8	8
45	Size-Dependent Hot Carrier Dynamics in Perovskite Nanocrystals Revealed by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 238-244	6.4	8
44	Frequency up-converted lasing in polymeric composites with two-photon absorbing antenna. <i>Optics Express</i> , 2012 , 20, 9135-43	3.3	7
43	Ultrafast nonlinear optical response of silver/bismuth oxide nanocomposite films with different silver concentrations. <i>Journal of Luminescence</i> , 2006 , 119-120, 370-377	3.8	7
42	Ultrafast dynamics of photoexcited carriers in perovskite semiconductor nanocrystals. <i>Nanophotonics</i> , 2021 , 10, 1943-1965	6.3	7
41	Exciton linewidth broadening induced by exciton-phonon interactions in CsPbBr nanocrystals. <i>Journal of Chemical Physics</i> , 2021 , 154, 214502	3.9	7
40	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. <i>Applied Physics Letters</i> , 2016 , 108, 061904	3.4	7
39	Long Persistent Luminescence Enabled by Dissociation of Triplet Intermediate States in an Organic Guest/Host System. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3582-3588	6.4	7
38	Singlet Fission Dynamics in Tetracene Single Crystals Probed by Polarization-Dependent Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10447-10456	2.8	6
37	Transition from Doublet to Triplet Excitons in Single Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5750-5755	6.4	6
36	Coherent acoustic phonons in YBa ₂ Cu ₃ O ₇ /La _{1/3} Ca _{2/3} MnO ₃ superlattices. <i>Applied Physics Letters</i> , 2016 , 108, 132601	3.4	6
35	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. <i>Angewandte Chemie</i> , 2018 , 130, 13461-13466	3.6	6
34	Weakly coupled triplet pair states probed by quantum beating in delayed fluorescence in tetracene crystals. <i>Journal of Chemical Physics</i> , 2019 , 151, 134309	3.9	6
33	Reducing the efficiency droop by lateral carrier confinement in InGaN/GaN quantum-well nanorods. <i>Optics Express</i> , 2014 , 22 Suppl 3, A790-9	3.3	6
32	Ultrafast dynamics of copper nanoparticles embedded in soda-lime silicate glass fabricated by ion exchange. <i>Thin Solid Films</i> , 2009 , 517, 6046-6049	2.2	6
31	Coupling Among Carriers and Phonons in Femtosecond Laser Pulses Excited SrRuO ₃ : A Promising Candidate for Optomechanical and Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3882-3888	5.6	5
30	Hole Transfer Promoted by a Viscosity Additive in an All-Polymer Photovoltaic Blend. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1384-1389	6.4	5

29	Two-photon-pumped optical gain in dye-polymer composite materials. <i>Applied Physics Letters</i> , 2012 , 100, 133305	3.4	5
28	Ultrafast pump-probe spectroscopic signatures of superconducting and pseudogap phases in YBa ₂ Cu ₃ O ₇ films. <i>Journal of Applied Physics</i> , 2013 , 113, 083901	2.5	5
27	Electroluminescence from silicon-based photonic crystal microcavities with PbSe quantum dots. <i>Optics Letters</i> , 2010 , 35, 547-9	3	5
26	Exciton-acoustic phonon coupling revealed by resonant excitation of single perovskite nanocrystals. <i>Nature Communications</i> , 2021 , 12, 2192	17.4	5
25	Defect recombination induced by density-activated carrier diffusion in nonpolar InGaN quantum wells. <i>Applied Physics Letters</i> , 2013 , 103, 123506	3.4	4
24	Charged two-exciton emission from a single semiconductor nanocrystal. <i>Applied Physics Letters</i> , 2015 , 106, 133106	3.4	3
23	Two-photon absorption induced photoluminescence in para-sexiphenyl nano-needles. <i>Chemical Physics Letters</i> , 2007 , 446, 83-86	2.5	3
22	Multi-photon excitation in ZnO materials. <i>Frontiers of Physics in China</i> , 2008 , 3, 181-190		3
21	Universal Existence of Localized Single-Photon Emitters in the Perovskite Film of All-Inorganic CsPbBr ₃ Microcrystals. <i>Advanced Materials</i> , 2021 , e2106278	24	3
20	Few-Layer PbI ₂ Nanoparticle: A 2D Semiconductor with Lateral Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7863-7869	6.4	3
19	Ag ₂ Au ₅₀ (PET) ₃₆ Nanocluster: Dimeric Assembly of Au ₂₅ (PET) ₁₈ Enabled by Silver Atoms. <i>Angewandte Chemie</i> , 2020 , 132, 14045-14050	3.6	2
18	Transient electronic anisotropy in overdoped NaFe _{1-x} Co _x As superconductors. <i>Physical Review B</i> , 2018 , 97,	3.3	2
17	Extended storage of multiple excitons in trap states of semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2016 , 108, 093110	3.4	2
16	Reversible Ionic Polarization in Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 283-289	3.89	2
15	Lateral carrier confinement in InGaN quantum-well nanorods. <i>Annals of Physics</i> , 2015 , 358, 255-265	2.5	1
14	Auger-Assisted Ultrafast Fluorescence Measurement of Semiconductor Single-Walled Carbon Nanotubes. <i>ACS Photonics</i> , 2016 , 3, 1415-1420	6.3	1
13	Coherent Exciton-Phonon Coupling in CdSe/ZnS Nanocrystals Studied by Two-Dimensional Electronic Spectroscopy. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 637-642	0.9	1
12	Large Optical Nonlinearity Induced by Singlet Fission in Pentacene Films. <i>Angewandte Chemie</i> , 2015 , 127, 6320-6324	3.6	1

11	Trion-Facilitated Dexter-Type Energy Transfer in a Cluster of Single Perovskite CsPbBr ₃ Nanocrystals. <i>Chinese Physics Letters</i> , 2020 , 37, 127801	1.8	1
10	Charge Carrier Dynamics in Sn-Doped Two-Dimensional Lead Halide Perovskites Studied by Terahertz Spectroscopy. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	1
9	Probing Permanent Dipole Moments and Removing Exciton Fine Structures in Single Perovskite Nanocrystals by an Electric Field. <i>Physical Review Letters</i> , 2021 , 126, 197403	7.4	1
8	Efficient quantum-dot light-emitting diodes featuring the interfacial carrier relaxation and exciton recycling. <i>Materials Today Energy</i> , 2021 , 20, 100649	7	1
7	Multiple Dark Excitons in Semiconductor CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23758-23763	3.8	1
6	Magnetic field effects on singlet fission dynamics. <i>Trends in Chemistry</i> , 2022 , 4, 528-539	14.8	1
5	Charge transfer via deep hole in the J51/N2200 blend. <i>Journal of Chemical Physics</i> , 2020 , 153, 054705	3.9	0
4	Electrical Switching of Optical Gain in Perovskite Semiconductor Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 7831-7838	11.5	0
3	Polar phase transitions in heteroepitaxial stabilized LaYAlO thin films. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 405401	1.8	
2	Ultrafast spectroscopic study for singlet fission. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 094210	0.6	
1	Two-dimensional electronic spectroscopy with active phase Management□ <i>Chinese Journal of Chemical Physics</i> , 2021 , 34, 30-42	0.9	