

Chunfeng Zhang

List of Publications by Year in descending order

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178
papers

12,600
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38742

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docs citations

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times ranked

11737
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal Existence of Localized Single-Photon Emitters in the Perovskite Film of All-Inorganic CsPbBr ₃ Microcrystals. <i>Advanced Materials</i> , 2022, 34, e2106278.	21.0	10
2	All-perovskite tandem solar cells with improved grain surface passivation. <i>Nature</i> , 2022, 603, 73-78.	27.8	544
3	High fill factor organic solar cells with increased dielectric constant and molecular packing density. <i>Joule</i> , 2022, 6, 444-457.	24.0	117
4	Quantized Exciton Motion and Fine Energy-Level Structure of a Single Perovskite Nanowire. <i>Nano Letters</i> , 2022, 22, 2907-2914.	9.1	5
5	Manipulating the D:A interfacial energetics and intermolecular packing for 19.2% efficiency organic photovoltaics. <i>Energy and Environmental Science</i> , 2022, 15, 2537-2544.	30.8	311
6	Electrical control of biexciton Auger recombination in single CdSe/CdS nanocrystals. <i>Nanoscale</i> , 2022, 14, 7674-7681.	5.6	1
7	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers. <i>Nature Communications</i> , 2022, 13, 2369.	12.8	122
8	Magnetic field effects on singlet fission dynamics. <i>Trends in Chemistry</i> , 2022, 4, 528-539.	8.5	14
9	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.	4.6	20
10	Two-dimensional electronic spectroscopy with active phase Management. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 30-42.	1.3	0
11	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. <i>Nature Communications</i> , 2021, 12, 1532.	12.8	33
12	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. <i>Journal of the American Chemical Society</i> , 2021, 143, 4359-4366.	13.7	60
13	Free-triplet generation with improved efficiency in tetracene oligomers through spatially separated triplet pair states. <i>Nature Chemistry</i> , 2021, 13, 559-567.	13.6	46
14	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2100205.	14.9	24
15	Exciton-acoustic phonon coupling revealed by resonant excitation of single perovskite nanocrystals. <i>Nature Communications</i> , 2021, 12, 2192.	12.8	10
16	Charge Carrier Dynamics in Sn-Doped Two-Dimensional Lead Halide Perovskites Studied by Terahertz Spectroscopy. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	6
17	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.	7.8	9
18	Exciton linewidth broadening induced by exciton-phonon interactions in CsPbBr ₃ nanocrystals. <i>Journal of Chemical Physics</i> , 2021, 154, 214502.	3.0	14

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19	Efficient quantum-dot light-emitting diodes featuring the interfacial carrier relaxation and exciton recycling. <i>Materials Today Energy</i> , 2021, 20, 100649.	4.7	5
20	Y6 and its derivatives: molecular design and physical mechanism. <i>National Science Review</i> , 2021, 8, nwab121.	9.5	40
21	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. <i>Joule</i> , 2021, 5, 1832-1844.	24.0	98
22	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.	21.0	354
23	Molecular engineering towards efficient white-light-emitting perovskite. <i>Nature Communications</i> , 2021, 12, 4890.	12.8	32
24	Electrical Switching of Optical Gain in Perovskite Semiconductor Nanocrystals. <i>Nano Letters</i> , 2021, 21, 7831-7838.	9.1	10
25	Reversible Ionic Polarization in Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 283-289.	3.1	2
26	Cd-driven surface reconstruction and photodynamics in gold nanoclusters. <i>Chemical Science</i> , 2021, 12, 3290-3294.	7.4	29
27	Ultrafast dynamics of photoexcited carriers in perovskite semiconductor nanocrystals. <i>Nanophotonics</i> , 2021, 10, 1943-1965.	6.0	16
28	Bright Triplet Self-Trapped Excitons to Dopant Energy Transfer in Halide Double-Perovskite Nanocrystals. <i>Nano Letters</i> , 2021, 21, 8671-8678.	9.1	53
29	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.	7.3	26
30	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.	13.7	344
31	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.	8.0	24
32	All-perovskite tandem solar cells with 24.2% certified efficiency and area over 1 m ² using surface-anchoring zwitterionic antioxidant. <i>Nature Energy</i> , 2020, 5, 870-880.	39.5	497
33	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.	30.8	170
34	Inhomogeneous Biexciton Binding in Perovskite Semiconductor Nanocrystals Measured with Two-Dimensional Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10173-10181.	4.6	25
35	Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001832.	19.5	52
36	Charge transfer via deep hole in the J51/N2200 blend. <i>Journal of Chemical Physics</i> , 2020, 153, 054705.	3.0	1

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37	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.	2.5	14
38	Ag ₂ Au ₅₀ (PET) ₃₆ Nanocluster: Dimeric Assembly of Au ₂₅ (PET) ₁₈ Enabled by Silver Atoms. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13941-13946.	13.8	46
39	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. <i>Nature Communications</i> , 2020, 11, 2726.	12.8	467
40	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.	12.7	16
41	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.	16.0	34
42	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.	2.0	3
43	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.	13.7	228
44	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.	19.5	75
45	Transition from Doublet to Triplet Excitons in Single Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5750-5755.	4.6	9
46	De novo design of Au ₃₆ (SR) ₂₄ nanoclusters. <i>Nature Communications</i> , 2020, 11, 3349.	12.8	54
47	Polarized emission from single perovskite FAPbBr ₃ nanocrystals. <i>Journal of Luminescence</i> , 2020, 221, 117032.	3.1	17
48	Hole Transfer Promoted by a Viscosity Additive in an All-Polymer Photovoltaic Blend. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1384-1389.	4.6	6
49	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.	4.6	12
50	Trion-Facilitated Dexter-Type Energy Transfer in a Cluster of Single Perovskite CsPbBr ₃ Nanocrystals. <i>Chinese Physics Letters</i> , 2020, 37, 127801.	3.3	2
51	Optical studies of semiconductor perovskite nanocrystals for classical optoelectronic applications and quantum information technologies: a review. <i>Advanced Photonics</i> , 2020, 2, .	11.8	30
52	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.	10.3	38
53	A Small Molecule Charge Driver enables Perovskite Quantum Dot Solar Cells with Efficiency Approaching 13%. <i>Advanced Materials</i> , 2019, 31, e1900111.	21.0	92
54	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.	4.6	21

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55	Two-photon excited photoluminescence of single perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019, 151, 154201.	3.0	17
56	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables High-Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1904215.	21.0	162
57	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.	21.0	162
58	Weakly coupled triplet pair states probed by quantum beating in delayed fluorescence in tetracene crystals. <i>Journal of Chemical Physics</i> , 2019, 151, 134309.	3.0	10
59	Enabling long-lived organic room temperature phosphorescence in polymers by subunit interlocking. <i>Nature Communications</i> , 2019, 10, 4247.	12.8	199
60	Direct Z scheme-fashioned photoanode systems consisting of Fe ₂ O ₃ nanorod arrays and underlying thin Sb ₂ Se ₃ layers toward enhanced photoelectrochemical water splitting performance. <i>Nanoscale</i> , 2019, 11, 109-114.	5.6	18
61	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. <i>Nature Communications</i> , 2019, 10, 519.	12.8	231
62	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. <i>Nature Communications</i> , 2019, 10, 398.	12.8	56
63	Quantum Interference in a Single Perovskite Nanocrystal. <i>Nano Letters</i> , 2019, 19, 4442-4447.	9.1	35
64	Oriented and Uniform Distribution of Dion-Jacobson Phase Perovskites Controlled by Quantum Well Barrier Thickness. <i>Solar Rrl</i> , 2019, 3, 1900090.	5.8	102
65	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.	5.0	8
66	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.	4.6	83
67	Phase segregation due to ion migration in all-inorganic mixed-halide perovskite nanocrystals. <i>Nature Communications</i> , 2019, 10, 1088.	12.8	271
68	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX ₃ Perovskite Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1900276.	7.3	138
69	Efficient plasmon-hot electron conversion in Ag@CsPbBr ₃ hybrid nanocrystals. <i>Nature Communications</i> , 2019, 10, 1163.	12.8	97
70	Tuning Spin Dynamics in Crystalline Tetracene. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1908-1913.	4.6	15
71	Excitation-tailored dual-color emission of manganese(II)-doped perovskite nanocrystals. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	15
72	Optical Gain from Biexcitons in CsPbBr ₃ Nanocrystals Revealed by Two-dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1251-1258.	4.6	40

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73	Few-Layer PbI ₂ Nanoparticle: A 2D Semiconductor with Lateral Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7863-7869.	4.6	6
74	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.	39.5	736
75	Coherent exciton-phonon coupling in perovskite semiconductor nanocrystals studied by two-dimensional electronic spectroscopy. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	18
76	Composition-Dependent Energy Splitting between Bright and Dark Excitons in Lead Halide Perovskite Nanocrystals. <i>Nano Letters</i> , 2018, 18, 2074-2080.	9.1	79
77	Singlet exciton fission in a linear tetracene tetramer. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3245-3253.	5.5	34
78	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust Fe ₂ O ₃ Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10141-10146.	8.0	38
79	Photon antibunching in a cluster of giant CdSe/CdS nanocrystals. <i>Nature Communications</i> , 2018, 9, 1536.	12.8	28
80	Intramolecular singlet fission in a face-to-face stacked tetracene trimer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6330-6336. Transient electronic anisotropy in overdoped cuprates	2.8	19
81	Superconductors . <i>Physical Review B</i> , 2018, 97, .	3.2	5
82	Feasible D1A-D2A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702166.	19.5	61
83	Integration of Fe _x S electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of Fe ₂ O ₃ photoanodes. <i>Chemical Communications</i> , 2018, 54, 13817-13820.	4.1	19
84	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.	10.3	16
85	Multiple Dark Excitons in Semiconductor CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23758-23763.	3.1	1
86	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.	30.8	72
87	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.	2.0	108
88	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.	13.8	166
89	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.	3.1	72
90	A Covalently Linked Tetracene Trimer: Synthesis and Singlet Exciton Fission Property. <i>Organic Letters</i> , 2017, 19, 580-583.	4.6	56

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91	Ultrafast Carrier Dynamics and Efficient Triplet Generation in Black Phosphorus Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12972-12978.	3.1	26
92	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.	13.7	303
93	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-Efficiency Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703344.	21.0	209
94	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.	6.7	184
95	Polar phase transitions in heteroepitaxial stabilized $\text{La}_{0.5}\text{Y}_{0.5}\text{AlO}_3$ thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 405401.	1.8	0
96	Bright type-II photoluminescence from Mn-doped CdS/ZnSe/ZnS quantum dots with Mn^{2+} ions as exciton couplers. <i>Nanoscale</i> , 2017, 9, 18281-18289.	5.6	13
97	Bright-Exciton Fine-Structure Splittings in Single Perovskite Nanocrystals. <i>Physical Review Letters</i> , 2017, 119, 026401.	7.8	129
98	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.	1.3	2
99	Broadband two-dimensional electronic spectroscopy in an actively phase stabilized pump-probe configuration. <i>Optics Express</i> , 2017, 25, 21115.	3.4	26
100	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. <i>Nature Communications</i> , 2016, 7, 13651.	12.8	917
101	Coherent optical phonon oscillation and possible electronic softening in WTe_2 crystals. <i>Scientific Reports</i> , 2016, 6, 30487.	3.3	33
102	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	8
103	Efficient thermal conductance in organometallic perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ films. <i>Applied Physics Letters</i> , 2016, 108, 081902.	3.3	22
104	Extended storage of multiple excitons in trap states of semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	3
105	Energy Transfer of Biexcitons in a Single Semiconductor Nanocrystal. <i>Nano Letters</i> , 2016, 16, 2492-2496.	9.1	20
106	Two-Photon-Pumped Perovskite Semiconductor Nanocrystal Lasers. <i>Journal of the American Chemical Society</i> , 2016, 138, 3761-3768.	13.7	496
107	Excessive Exoergicity Reduces Singlet Exciton Fission Efficiency of Heteroacenes in Solutions. <i>Journal of the American Chemical Society</i> , 2016, 138, 6739-6745.	13.7	77
108	Slow Auger Recombination of Charged Excitons in Nonblinking Perovskite Nanocrystals without Spectral Diffusion. <i>Nano Letters</i> , 2016, 16, 6425-6430.	9.1	129

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109	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.	4.6	32
110	Carrier Multiplication in a Single Semiconductor Nanocrystal. <i>Physical Review Letters</i> , 2016, 116, 106404.	7.8	41
111	Bright Perovskite Nanocrystal Films for Efficient Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4602-4610.	4.6	288
112	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, .	3.3	8
113	Auger-Assisted Ultrafast Fluorescence Measurement of Semiconductor Single-Walled Carbon Nanotubes. <i>ACS Photonics</i> , 2016, 3, 1415-1420.	6.6	1
114	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.	2.6	48
115	Coherent Formation of Multiexciton Triplet-Pair States in Singlet Fission of Crystalline Tetracene. , 2016, , .		0
116	Magnetic dipolar interaction between correlated triplets created by singlet fission in tetracene crystals. <i>Nature Communications</i> , 2015, 6, 8602.	12.8	56
117	Lateral carrier confinement in InGaN quantum-well nanorods. <i>Annals of Physics</i> , 2015, 358, 255-265.	2.8	1
118	Efficient perovskite/fullerene planar heterojunction solar cells with enhanced charge extraction and suppressed charge recombination. <i>Nanoscale</i> , 2015, 7, 9771-9778.	5.6	102
119	Defect-Induced Photoluminescence Blinking of Single Epitaxial InGaAs Quantum Dots. <i>Scientific Reports</i> , 2015, 5, 8898.	3.3	11
120	Large Optical Nonlinearity Induced by Singlet Fission in Pentacene Films. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6222-6226.	13.8	24
121	Superior Optical Properties of Perovskite Nanocrystals as Single Photon Emitters. <i>ACS Nano</i> , 2015, 9, 12410-12416.	14.6	297
122	Charged two-exciton emission from a single semiconductor nanocrystal. <i>Applied Physics Letters</i> , 2015, 106, 133106.	3.3	4
123	Mott behavior in K _x Fe _{2-y} Se ₂ superconductors revealed by pump-probe spectroscopy. , 2015, , .		0
124	Ultrafast spectroscopy of quasiparticle dynamics in cuprate superconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 376, 29-39.	2.3	13
125	Ultrafast spectroscopic study for singlet fission. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 094210.	0.5	0
126	Polarization-dependent exciton dynamics in tetracene single crystals. <i>Journal of Chemical Physics</i> , 2014, 141, 244303.	3.0	26

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127	Reducing the efficiency droop by lateral carrier confinement in InGaN/GaN quantum-well nanorods. <i>Optics Express</i> , 2014, 22, A790.	3.4	6
128	An integrated artificial photosynthesis system based on peptide nanotubes. <i>Nanoscale</i> , 2014, 6, 7832-7837.	5.6	20
129	Moiré behavior in $KxMn_2Se_2$ superconductors studied by pump-probe spectroscopy. <i>Physical Review B</i> , 2014, 89.	3.2	26
130	Nonlinear Density Dependence of Singlet Fission Rate in Tetracene Films. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3462-3467.	4.6	19
131	Single-Crystalline, Ultrathin $ZnGa_2O_4$ Nanosheet Scaffolds To Promote Photocatalytic Activity in CO_2 Reduction into Methane. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2356-2361.	8.0	151
132	Energy Transfer from a Single Semiconductor Nanocrystal to Dye Molecules. <i>ACS Nano</i> , 2014, 8, 7060-7066.	14.6	16
133	Oxygen and seizure dynamics: I. Experiments. <i>Journal of Neurophysiology</i> , 2014, 112, 205-212.	1.8	35
134	Single-Particle Spectroscopic Measurements of Fluorescent Graphene Quantum Dots. <i>ACS Nano</i> , 2013, 7, 10654-10661.	14.6	148
135	Defect recombination induced by density-activated carrier diffusion in nonpolar InGaN quantum wells. <i>Applied Physics Letters</i> , 2013, 103, 123506.	3.3	4
136	Synthesis of $Bi_6Mo_2O_{15}$ 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.	2.6	30
137	FRET excited ratiometric oxygen sensing in living tissue. <i>Journal of Neuroscience Methods</i> , 2013, 214, 45-51.	2.5	36
138	Enhanced Hot-Carrier Luminescence in Multilayer Reduced Graphene Oxide Nanospheres. <i>Scientific Reports</i> , 2013, 3, 2315.	3.3	14
139	Broadband Optical Nonlinearity Induced by Charge Transfer Excitons in $CdSe/ZnTe$ Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 4397-4402.	21.0	20
140	Excitation dependent two-component spontaneous emission and ultrafast amplified spontaneous emission in dislocation-free InGaN nanowires. <i>Applied Physics Letters</i> , 2013, 102, 091105.	3.3	19
141	Ultrafast pump-probe spectroscopic signatures of superconducting and pseudogap phases in $YBa_2Cu_3O_{7-x}$ films. <i>Journal of Applied Physics</i> , 2013, 113, 083901.	2.5	5
142	Frequency up-converted lasing in polymeric composites with two-photon absorbing antenna. <i>Optics Express</i> , 2012, 20, 9135.	3.4	8
143	Nonradiative energy transfer between colloidal quantum dot-phosphors and nanopillar nitride LEDs. <i>Optics Express</i> , 2012, 20, A333.	3.4	30
144	Effects of reduced exciton diffusion in InGaN/GaN multiple quantum well nanorods. <i>Optics Express</i> , 2012, 20, 13478.	3.4	19

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145	Indirect optical transitions in hybrid spheres with alternating layers of titania and graphene oxide nanosheets. <i>Optics Express</i> , 2012, 20, 28801.	3.4	11
146	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.	4.7	21
147	Carrier multiplication in semiconductor nanocrystals detected by energy transfer to organic dye molecules. <i>Nature Communications</i> , 2012, 3, 1170.	12.8	26
148	Two-photon-pumped optical gain in dye-polymer composite materials. <i>Applied Physics Letters</i> , 2012, 100, 133305.	3.3	5
149	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.	14.9	17
150	Lasing from colloidal InP/ZnS quantum dots. <i>Optics Express</i> , 2011, 19, 5528.	3.4	48
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