Chunfeng Zhang

List of Publications by Year in Descending Order

172 papers	8,205 citations	44 h-index	86 g-index
181 ext. papers	10,214 ext. citations	10.1 avg, IF	6.18 L-index

#	Paper	IF	Citations
172	All-perovskite tandem solar cells with improved grain surface passivation.. *Nature*, **2022**,	50.4	112
171	High fill factor organic solar cells with increased dielectric constant and molecular packing density. *Joule*, **2022**,	27.8	16
170	Vertically optimized phase separation with improved exciton diffusion enables efficient organic solar cells with thick active layers.. *Nature Communications*, **2022**, 13, 2369	17.4	23
169	Magnetic field effects on singlet fission dynamics. *Trends in Chemistry*, **2022**, 4, 528-539	14.8	1
168	Ultrafast dynamics of photoexcited carriers in perovskite semiconductor nanocrystals. *Nanophotonics*, **2021**, 10, 1943-1965	6.3	7
167	Universal Existence of Localized Single-Photon Emitters in the Perovskite Film of All-Inorganic CsPbBr Microcrystals. *Advanced Materials*, **2021**, e2106278	24	3
166	Bright Triplet Self-Trapped Excitons to Dopant Energy Transfer in Halide Double-Perovskite Nanocrystals. *Nano Letters*, **2021**, 21, 8671-8678	11.5	15
165	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. *Nature Communications*, **2021**, 12, 1532	17.4	14
164	Nonradiative Triplet Loss Suppressed in Organic Photovoltaic Blends with Fluoridated Nonfullerene Acceptors. *Journal of the American Chemical Society*, **2021**, 143, 4359-4366	16.4	24
163	Free-triplet generation with improved efficiency in tetracene oligomers through spatially separated triplet pair states. *Nature Chemistry*, **2021**, 13, 559-567	17.6	16
162	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. *Advanced Functional Materials*, **2021**, 31, 2100295	19.5	11
161	Exciton-acoustic phonon coupling revealed by resonant excitation of single perovskite nanocrystals. *Nature Communications*, **2021**, 12, 2192	17.4	5
160	Charge Carrier Dynamics in Sn-Doped Two-Dimensional Lead Halide Perovskites Studied by Terahertz Spectroscopy. *Frontiers in Energy Research*, **2021**, 9,	3.8	1
159	Probing Permanent Dipole Moments and Removing Exciton Fine Structures in Single Perovskite Nanocrystals by an Electric Field. *Physical Review Letters*, **2021**, 126, 197403	7.4	1
158	Exciton linewidth broadening induced by exciton-phonon interactions in CsPbBr nanocrystals. *Journal of Chemical Physics*, **2021**, 154, 214502	3.9	7
157	Efficient quantum-dot light-emitting diodes featuring the interfacial carrier relaxation and exciton recycling. *Materials Today Energy*, **2021**, 20, 100649	7	1
156	Y6 and its derivatives: molecular design and physical mechanism. *National Science Review*, **2021**, 8, nwab121	12.8	8

155	Triplet exciton formation for non-radiative voltage loss in high-efficiency nonfullerene organic solar cells. *Joule*, **2021**, 5, 1832-1844	27.8	30
154	Size-Dependent Hot Carrier Dynamics in Perovskite Nanocrystals Revealed by Two-Dimensional Electronic Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 238-244	6.4	8
153	Two-dimensional electronic spectroscopy with active phase Management*Chinese Journal of Chemical Physics*, **2021**, 34, 30-42	0.9	
152	A Well-Mixed Phase Formed by Two Compatible Non-Fullerene Acceptors Enables Ternary Organic Solar Cells with Efficiency over 18.6. *Advanced Materials*, **2021**, 33, e2101733	24	145
151	Molecular engineering towards efficientwhite-light-emitting perovskite. *Nature Communications*, **2021**, 12, 4890	17.4	10
150	Electrical Switching of Optical Gain in Perovskite Semiconductor Nanocrystals. *Nano Letters*, **2021**, 21, 7831-7838	11.5	0
149	Reversible Ionic Polarization in Metal Halide Perovskites. *Journal of Physical Chemistry C*, **2021**, 125, 283-289	3.8	2
148	Cd-driven surface reconstruction and photodynamics in gold nanoclusters. *Chemical Science*, **2021**, 12, 3290-3294	9.4	13
147	Singlet Fission Dynamics in Tetracene Single Crystals Probed by Polarization-Dependent Two-Dimensional Electronic Spectroscopy. *Journal of Physical Chemistry A*, **2020**, 124, 10447-10456	2.8	6
146	Ag Au (PET) Nanocluster: Dimeric Assembly of Au (PET) Enabled by Silver Atoms. *Angewandte Chemie - International Edition*, **2020**, 59, 13941-13946	16.4	18
145	Cathode engineering with perylene-diimide interlayer enabling over 17% efficiency single-junction organic solar cells. *Nature Communications*, **2020**, 11, 2726	17.4	236
144	Realization of ultrathin red 2D carbon nitride sheets to significantly boost the photoelectrochemical water splitting performance of TiO2 photoanodes. *Chemical Engineering Journal*, **2020**, 396, 125267	14.7	10
143	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. *Nano Energy*, **2020**, 75, 105032	17.1	14
142	Ag2Au50(PET)36 Nanocluster: Dimeric Assembly of Au25(PET)18 Enabled by Silver Atoms. *Angewandte Chemie*, **2020**, 132, 14045-14050	3.6	2
141	Charge Separation from an Intra-Moiety Intermediate State in the High-Performance PM6:Y6 Organic Photovoltaic Blend. *Journal of the American Chemical Society*, **2020**, 142, 12751-12759	16.4	105
140	Phthalimide Polymer Donor Guests Enable over 17% Efficient Organic Solar Cells via Parallel-Like Ternary and Quaternary Strategies. *Advanced Energy Materials*, **2020**, 10, 2001436	21.8	53
139	Transition from Doublet to Triplet Excitons in Single Perovskite Nanocrystals. *Journal of Physical Chemistry Letters*, **2020**, 11, 5750-5755	6.4	6
138	De novo design of Au(SR) nanoclusters. *Nature Communications*, **2020**, 11, 3349	17.4	21

137	Polarized emission from single perovskite FAPbBr3 nanocrystals. *Journal of Luminescence*, **2020**, 221, 117032	3.8	11
136	Hole Transfer Promoted by a Viscosity Additive in an All-Polymer Photovoltaic Blend. *Journal of Physical Chemistry Letters*, **2020**, 11, 1384-1389	6.4	5
135	Optical studies of semiconductor perovskite nanocrystals for classical optoelectronic applications and quantum information technologies: a review. *Advanced Photonics*, **2020**, 2,	8.1	17
134	Trion-Facilitated Dexter-Type Energy Transfer in a Cluster of Single Perovskite CsPbBr3 Nanocrystals. *Chinese Physics Letters*, **2020**, 37, 127801	1.8	1
133	Low-Threshold Amplified Spontaneous Emission and Lasing from Thick-Shell CdSe/CdS Core/Shell Nanoplatelets Enabled by High-Temperature Growth. *Advanced Optical Materials*, **2020**, 8, 1901615	8.1	11
132	High Efficiency Polymer Solar Cells with Efficient Hole Transfer at Zero Highest Occupied Molecular Orbital Offset between Methylated Polymer Donor and Brominated Acceptor. *Journal of the American Chemical Society*, **2020**, 142, 1465-1474	16.4	228
131	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. *ACS Applied Materials & Interfaces*, **2020**, 12, 667-677	9.5	13
130	All-perovskite tandem solar cells with 24.2% certified efficiency and area over 1 cm2 using surface-anchoring zwitterionic antioxidant. *Nature Energy*, **2020**, 5, 870-880	62.3	233
129	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. *Energy and Environmental Science*, **2020**, 13, 5017-5027	35.4	117
128	Inhomogeneous Biexciton Binding in Perovskite Semiconductor Nanocrystals Measured with Two-Dimensional Spectroscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 10173-10181	6.4	14
127	Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. *Advanced Energy Materials*, **2020**, 10, 2001832	21.8	29
126	Charge transfer via deep hole in the J51/N2200 blend. *Journal of Chemical Physics*, **2020**, 153, 054705	3.9	0
125	Long Persistent Luminescence Enabled by Dissociation of Triplet Intermediate States in an Organic Guest/Host System. *Journal of Physical Chemistry Letters*, **2020**, 11, 3582-3588	6.4	7
124	Enabling long-lived organic room temperature phosphorescence in polymers by subunit interlocking. *Nature Communications*, **2019**, 10, 4247	17.4	99
123	Simplified synthetic routes for low cost and high photovoltaic performance n-type organic semiconductor acceptors. *Nature Communications*, **2019**, 10, 519	17.4	153
122	Ultrafast hole transfer mediated by polaron pairs in all-polymer photovoltaic blends. *Nature Communications*, **2019**, 10, 398	17.4	39
121	Quantum Interference in a Single Perovskite Nanocrystal. *Nano Letters*, **2019**, 19, 4442-4447	11.5	23
120	Oriented and Uniform Distribution of Dion□acobson Phase Perovskites Controlled by Quantum Well Barrier Thickness. *Solar Rrl*, **2019**, 3, 1900090	7.1	61

119	Coupling Among Carriers and Phonons in Femtosecond Laser Pulses Excited SrRuO3: A Promising Candidate for Optomechanical and Optoelectronic Applications. *ACS Applied Nano Materials*, **2019**, 2, 3882-3888	5.6	5
118	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. *Journal of Physical Chemistry Letters*, **2019**, 10, 3248-3253	6.4	50
117	Phase segregation due to ion migration in all-inorganic mixed-halide perovskite nanocrystals. *Nature Communications*, **2019**, 10, 1088	17.4	150
116	Surface Halogen Compensation for Robust Performance Enhancements of CsPbX3 Perovskite Quantum Dots. *Advanced Optical Materials*, **2019**, 7, 1900276	8.1	83
115	Efficient plasmon-hot electron conversion in Ag-CsPbBr hybrid nanocrystals. *Nature Communications*, **2019**, 10, 1163	17.4	54
114	Tuning Spin Dynamics in Crystalline Tetracene. *Journal of Physical Chemistry Letters*, **2019**, 10, 1908-1913	6.4	9
113	Excitation-tailored dual-color emission of manganese(II)-doped perovskite nanocrystals. *Applied Physics Letters*, **2019**, 114, 041902	3.4	13
112	Insights into constitutional isomeric effects on donor–acceptor intermolecular arrangements in non-fullerene organic solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 18468-18479	13	28
111	A Small-Molecule "Charge Driver" enables Perovskite Quantum Dot Solar Cells with Efficiency Approaching 13. *Advanced Materials*, **2019**, 31, e1900111	24	58
110	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. *Journal of Physical Chemistry Letters*, **2019**, 10, 4110-4116	6.4	16
109	Two-photon excited photoluminescence of single perovskite nanocrystals. *Journal of Chemical Physics*, **2019**, 151, 154201	3.9	12
108	Rational Tuning of Molecular Interaction and Energy Level Alignment Enables High-Performance Organic Photovoltaics. *Advanced Materials*, **2019**, 31, e1904215	24	108
107	Achieving Fast Charge Separation and Low Nonradiative Recombination Loss by Rational Fluorination for High-Efficiency Polymer Solar Cells. *Advanced Materials*, **2019**, 31, e1905480	24	113
106	Weakly coupled triplet pair states probed by quantum beating in delayed fluorescence in tetracene crystals. *Journal of Chemical Physics*, **2019**, 151, 134309	3.9	6
105	Optical Gain from Biexcitons in CsPbBr Nanocrystals Revealed by Two-dimensional Electronic Spectroscopy. *Journal of Physical Chemistry Letters*, **2019**, 10, 1251-1258	6.4	30
104	Few-Layer PbI Nanoparticle: A 2D Semiconductor with Lateral Quantum Confinement. *Journal of Physical Chemistry Letters*, **2019**, 10, 7863-7869	6.4	3
103	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(ii) oxidation in precursor ink. *Nature Energy*, **2019**, 4, 864-873	62.3	463
102	Coherent exciton-phonon coupling in perovskite semiconductor nanocrystals studied by two-dimensional electronic spectroscopy. *Applied Physics Letters*, **2019**, 115, 243101	3.4	12

101	Direct Z scheme-fashioned photoanode systems consisting of FeO nanorod arrays and underlying thin SbSe layers toward enhanced photoelectrochemical water splitting performance. *Nanoscale*, **2018**, 11, 109-114	7.7	11
100	Composition-Dependent Energy Splitting between Bright and Dark Excitons in Lead Halide Perovskite Nanocrystals. *Nano Letters*, **2018**, 18, 2074-2080	11.5	59
99	Singlet exciton fission in a linear tetracene tetramer. *Journal of Materials Chemistry C*, **2018**, 6, 3245-3253	7.1	26
98	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust FeO Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 10141-10146	9.5	30
97	Photon antibunching in a cluster of giant CdSe/CdS nanocrystals. *Nature Communications*, **2018**, 9, 1536	17.4	22
96	Intramolecular singlet fission in a face-to-face stacked tetracene trimer. *Physical Chemistry Chemical Physics*, **2018**, 20, 6330-6336	3.6	15
95	Transient electronic anisotropy in overdoped NaFe1−xCoxAs superconductors. *Physical Review B*, **2018**, 97,	3.3	2
94	Ultrafast Channel II process induced by a 3-D texture with enhanced acceptor order ranges for high-performance non-fullerene polymer solar cells. *Energy and Environmental Science*, **2018**, 11, 2569-2580	25.4	59
93	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. *Angewandte Chemie*, **2018**, 130, 13461-13466	3.6	6
92	Highly Flexible and Efficient All-Polymer Solar Cells with High-Viscosity Processing Polymer Additive toward Potential of Stretchable Devices. *Angewandte Chemie - International Edition*, **2018**, 57, 13277-13282	16.4	117
91	Enhancing Luminescence and Photostability of CsPbBr3 Nanocrystals via Surface Passivation with Silver Complex. *Journal of Physical Chemistry C*, **2018**, 122, 12994-13000	3.8	55
90	Feasible D1-AD2-A Random Copolymers for Simultaneous High-Performance Fullerene and Nonfullerene Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702166	21.8	53
89	Integration of FeS electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of FeO photoanodes. *Chemical Communications*, **2018**, 54, 13817-13820	5.8	17
88	Ternary non-fullerene polymer solar cells with a high crystallinity n-type organic semiconductor as the second acceptor. *Journal of Materials Chemistry A*, **2018**, 6, 24814-24822	13	14
87	Multiple Dark Excitons in Semiconductor CdSe Nanocrystals. *Journal of Physical Chemistry C*, **2018**, 122, 23758-23763	3.8	1
86	A Covalently Linked Tetracene Trimer: Synthesis and Singlet Exciton Fission Property. *Organic Letters*, **2017**, 19, 580-583	6.2	44
85	Ultrafast Carrier Dynamics and Efficient Triplet Generation in Black Phosphorus Quantum Dots. *Journal of Physical Chemistry C*, **2017**, 121, 12972-12978	3.8	21
84	9.73% Efficiency Nonfullerene All Organic Small Molecule Solar Cells with Absorption-Complementary Donor and Acceptor. *Journal of the American Chemical Society*, **2017**, 139, 5085-5094	16.4	270

83	Side Chain Engineering on Medium Bandgap Copolymers to Suppress Triplet Formation for High-Efficiency Polymer Solar Cells. *Advanced Materials*, **2017**, 29, 1703344	24	182
82	All-Small-Molecule Nonfullerene Organic Solar Cells with High Fill Factor and High Efficiency over 10%. *Chemistry of Materials*, **2017**, 29, 7543-7553	9.6	164
81	Polar phase transitions in heteroepitaxial stabilized LaYAlO thin films. *Journal of Physics Condensed Matter*, **2017**, 29, 405401	1.8	
80	Bright type-II photoluminescence from Mn-doped CdS/ZnSe/ZnS quantum dots with Mn ions as exciton couplers. *Nanoscale*, **2017**, 9, 18281-18289	7.7	11
79	Bright-Exciton Fine-Structure Splittings in Single Perovskite Nanocrystals. *Physical Review Letters*, **2017**, 119, 026401	7.4	90
78	Coherent Exciton-Phonon Coupling in CdSe/ZnS Nanocrystals Studied by Two-Dimensional Electronic Spectroscopy *Chinese Journal of Chemical Physics*, **2017**, 30, 637-642	0.9	1
77	Broadband two-dimensional electronic spectroscopy in an actively phase stabilized pump-probe configuration. *Optics Express*, **2017**, 25, 21115-21126	3.3	20
76	Ultralow-Threshold Single-Mode Lasing from Phase-Pure CdSe/CdS Core/Shell Quantum Dots. *Journal of Physical Chemistry Letters*, **2016**, 7, 4968-4976	6.4	23
75	Carrier Multiplication in a Single Semiconductor Nanocrystal. *Physical Review Letters*, **2016**, 116, 106404	7.4	34
74	Bright Perovskite Nanocrystal Films for Efficient Light-Emitting Devices. *Journal of Physical Chemistry Letters*, **2016**, 7, 4602-4610	6.4	245
73	Coherent acoustic phonons in YBa2Cu3O7/La1/3Ca2/3MnO3 superlattices. *Applied Physics Letters*, **2016**, 108, 132601	3.4	6
72	Auger-Assisted Ultrafast Fluorescence Measurement of Semiconductor Single-Walled Carbon Nanotubes. *ACS Photonics*, **2016**, 3, 1415-1420	6.3	1
71	Efficient lead acetate sourced planar heterojunction perovskite solar cells with enhanced substrate coverage via one-step spin-coating. *Organic Electronics*, **2016**, 33, 194-200	3.5	45
70	11.4% Efficiency non-fullerene polymer solar cells with trialkylsilyl substituted 2D-conjugated polymer as donor. *Nature Communications*, **2016**, 7, 13651	17.4	822
69	Coherent optical phonon oscillation and possible electronic softening in WTe2 crystals. *Scientific Reports*, **2016**, 6, 30487	4.9	24
68	Magnetic enhancement of photoluminescence from blue-luminescent graphene quantum dots. *Applied Physics Letters*, **2016**, 108, 061904	3.4	7
67	Efficient thermal conductance in organometallic perovskite CH3NH3PbI3 films. *Applied Physics Letters*, **2016**, 108, 081902	3.4	21
66	Extended storage of multiple excitons in trap states of semiconductor nanocrystals. *Applied Physics Letters*, **2016**, 108, 093110	3.4	2

65	Energy Transfer of Biexcitons in a Single Semiconductor Nanocrystal. *Nano Letters*, **2016**, 16, 2492-6	11.5	17
64	Two-Photon-Pumped Perovskite Semiconductor Nanocrystal Lasers. *Journal of the American Chemical Society*, **2016**, 138, 3761-8	16.4	407
63	Excessive Exoergicity Reduces Singlet Exciton Fission Efficiency of Heteroacenes in Solutions. *Journal of the American Chemical Society*, **2016**, 138, 6739-45	16.4	62
62	Slow Auger Recombination of Charged Excitons in Nonblinking Perovskite Nanocrystals without Spectral Diffusion. *Nano Letters*, **2016**, 16, 6425-6430	11.5	104
61	Lateral carrier confinement in InGaN quantum-well nanorods. *Annals of Physics*, **2015**, 358, 255-265	2.5	1
60	Efficient perovskite/fullerene planar heterojunction solar cells with enhanced charge extraction and suppressed charge recombination. *Nanoscale*, **2015**, 7, 9771-8	7.7	93
59	Defect-induced photoluminescence blinking of single epitaxial InGaAs quantum dots. *Scientific Reports*, **2015**, 5, 8898	4.9	10
58	Large optical nonlinearity induced by singlet fission in pentacene films. *Angewandte Chemie - International Edition*, **2015**, 54, 6222-6	16.4	21
57	Superior Optical Properties of Perovskite Nanocrystals as Single Photon Emitters. *ACS Nano*, **2015**, 9, 12410-6	16.7	234
56	Charged two-exciton emission from a single semiconductor nanocrystal. *Applied Physics Letters*, **2015**, 106, 133106	3.4	3
55	Ultrafast spectroscopy of quasiparticle dynamics in cuprate superconductors. *Journal of Magnetism and Magnetic Materials*, **2015**, 376, 29-39	2.8	12
54	Magnetic dipolar interaction between correlated triplets created by singlet fission in tetracene crystals. *Nature Communications*, **2015**, 6, 8602	17.4	45
53	Large Optical Nonlinearity Induced by Singlet Fission in Pentacene Films. *Angewandte Chemie*, **2015** , 127, 6320-6324	3.6	1
52	Ultrafast spectroscopic study for singlet fission. *Wuli Xuebao/Acta Physica Sinica*, **2015**, 64, 094210	0.6	
51	An integrated artificial photosynthesis system based on peptide nanotubes. *Nanoscale*, **2014**, 6, 7832-7	7.7	19
50	Mott behavior in KxFe2−ySe2 superconductors studied by pump-probe spectroscopy. *Physical Review B*, **2014**, 89,	3.3	23
49	Nonlinear Density Dependence of Singlet Fission Rate in Tetracene Films. *Journal of Physical Chemistry Letters*, **2014**, 5, 3462-7	6.4	14
48	Single-crystalline, ultrathin ZnGa(2)O(4) nanosheet scaffolds to promote photocatalytic activity in CO(2) reduction into methane. *ACS Applied Materials & Interfaces*, **2014**, 6, 2356-61	9.5	131

47	Energy transfer from a single semiconductor nanocrystal to dye molecules. *ACS Nano*, **2014**, 8, 7060-6	16.7	14
46	Oxygen and seizure dynamics: I. Experiments. *Journal of Neurophysiology*, **2014**, 112, 205-12	3.2	29
45	Polarization-dependent exciton dynamics in tetracene single crystals. *Journal of Chemical Physics*, **2014**, 141, 244303	3.9	23
44	Reducing the efficiency droop by lateral carrier confinement in InGaN/GaN quantum-well nanorods. *Optics Express*, **2014**, 22 Suppl 3, A790-9	3.3	6
43	Single-particle spectroscopic measurements of fluorescent graphene quantum dots. *ACS Nano*, **2013**, 7, 10654-61	16.7	116
42	Defect recombination induced by density-activated carrier diffusion in nonpolar InGaN quantum wells. *Applied Physics Letters*, **2013**, 103, 123506	3.4	4
41	Synthesis of Bi6Mo2O15 sub-microwires via a molten salt method and enhancing the photocatalytic reduction of CO2 into solar fuel through tuning the surface oxide vacancies by simple post-heating treatment. *CrystEngComm*, **2013**, 15, 9855	3.3	26
40	FRET excited ratiometric oxygen sensing in living tissue. *Journal of Neuroscience Methods*, **2013**, 214, 45-51	3	31
39	Enhanced hot-carrier luminescence in multilayer reduced graphene oxide nanospheres. *Scientific Reports*, **2013**, 3, 2315	4.9	14
38	Broadband optical non-linearity induced by charge-transfer excitons in type-II CdSe/ZnTe nanocrystals. *Advanced Materials*, **2013**, 25, 4397-402	24	17
37	Excitation dependent two-component spontaneous emission and ultrafast amplified spontaneous emission in dislocation-free InGaN nanowires. *Applied Physics Letters*, **2013**, 102, 091105	3.4	16
36	Ultrafast pump-probe spectroscopic signatures of superconducting and pseudogap phases in YBa2Cu3O7 films. *Journal of Applied Physics*, **2013**, 113, 083901	2.5	5
35	A dye-free photoelectrochemical solar cell based on BiVO4 with a long lifetime of photogenerated carriers. *Electrochemistry Communications*, **2012**, 22, 49-52	5.1	19
34	Carrier multiplication in semiconductor nanocrystals detected by energy transfer to organic dye molecules. *Nature Communications*, **2012**, 3, 1170	17.4	23
33	Two-photon-pumped optical gain in dye-polymer composite materials. *Applied Physics Letters*, **2012** , 100, 133305	3.4	5
32	The Impact of Carrier Transport Confinement on the Energy Transfer Between InGaN/GaN Quantum-Well Nanorods and Colloidal Nanocrystals. *Advanced Functional Materials*, **2012**, 22, 3146-3152	15.6	16
31	Frequency up-converted lasing in polymeric composites with two-photon absorbing antenna. *Optics Express*, **2012**, 20, 9135-43	3.3	7
30	Nonradiative energy transfer between colloidal quantum dot-phosphors and nanopillar nitride LEDs. *Optics Express*, **2012**, 20 Suppl 2, A333-9	3.3	24

29	Effects of reduced exciton diffusion in InGaN/GaN multiple quantum well nanorods. *Optics Express*, **2012**, 20, 13478-87	3.3	17
28	Indirect optical transitions in hybrid spheres with alternating layers of titania and graphene oxide nanosheets. *Optics Express*, **2012**, 20, 28801-7	3.3	11
27	Lasing from colloidal InP/ZnS quantum dots. *Optics Express*, **2011**, 19, 5528-35	3.3	38
26	Site-specific sonoporation of human melanoma cells at the cellular level using high lateral-resolution ultrasonic micro-transducer arrays. *Biosensors and Bioelectronics*, **2011**, 27, 25-33	11.8	11
25	Near-band-edge electroluminescence from heavy-metal-free colloidal quantum dots. *Advanced Materials*, **2011**, 23, 3553-8	24	167
24	Electroluminescence from silicon-based photonic crystal microcavities with PbSe quantum dots. *Optics Letters*, **2010**, 35, 547-9	3	5
23	Quantum efficiency of stimulated emission in colloidal semiconductor nanocrystal quantum dots. *Physical Review B*, **2009**, 80,	3.3	8
22	Integration of planar and bulk heterojunctions in polymer/nanocrystal hybrid photovoltaic cells. *Applied Physics Letters*, **2009**, 95, 063510	3.4	33
21	Colloidal nanocrystal-based light-emitting diodes fabricated on plastic toward flexible quantum dot optoelectronics. *Journal of Applied Physics*, **2009**, 105, 034312	2.5	41
20	Ultrafast dynamics of copper nanoparticles embedded in soda-lime silicate glass fabricated by ion exchange. *Thin Solid Films*, **2009**, 517, 6046-6049	2.2	6
19	Frequency-upconverted whispering-gallery-mode lasing in ZnO hexagonal nanodisks. *Optics Letters*, **2009**, 34, 3349-51	3	24
18	Low-threshold two-photon pumped ZnO nanowire lasers. *Optics Express*, **2009**, 17, 7893-900	3.3	96
17	Frequency upconverted lasing of nanocrystal quantum dots in microbeads. *Applied Physics Letters*, **2009**, 95, 183109	3.4	14
16	Two-photon-pumped lasing from colloidal nanocrystal quantum dots. *Optics Letters*, **2008**, 33, 2437-9	3	38
15	Multiphoton absorption induced amplified spontaneous emission from biocatalyst-synthesized ZnO nanorods. *Applied Physics Letters*, **2008**, 92, 233116	3.4	22
14	Multi-photon excitation in ZnO materials. *Frontiers of Physics in China*, **2008**, 3, 181-190		3
13	Multi-photon excitation UV emission by femtosecond pulses and nonlinearity in ZnO single crystal. *Journal of Physics Condensed Matter*, **2007**, 19, 216202	1.8	12
12	Two-photon absorption induced photoluminescence in para-sexiphenyl nano-needles. *Chemical Physics Letters*, **2007**, 446, 83-86	2.5	3

List of Publications

11	Ultrafast third-order nonlinear optical response of Cu:Bi2O3 nanocomposite films. *Physica B: Condensed Matter*, **2007**, 393, 188-194	2.8	8
10	Multiphoton absorption pumped ultraviolet stimulated emission from ZnO microtubes. *Applied Physics Letters*, **2007**, 91, 142109	3.4	19
9	Raman spectra of single micrometer-sized tubular ZnO. *Materials Chemistry and Physics*, **2006**, 99, 160-163	4.4	42
8	Heat treatment effect on the ultrafast dynamics and nonlinear optical properties of Ag : Si3N4nanocermets. *Journal Physics D: Applied Physics*, **2006**, 39, 4766-4770	3	10
7	Femtosecond pulse excited two-photon photoluminescence and second harmonic generation in ZnO nanowires. *Applied Physics Letters*, **2006**, 89, 042117	3.4	65
6	Multiphoton route to ZnO nanowire lasers. *Optics Letters*, **2006**, 31, 3345-7	3	53
5	Ultrafast nonlinear optical response of silver/bismuth oxide nanocomposite films with different silver concentrations. *Journal of Luminescence*, **2006**, 119-120, 370-377	3.8	7
4	Observation of two-photon-induced photoluminescence in ZnO microtubes. *Applied Physics Letters*, **2005**, 87, 051920	3.4	37
3	Ultrafast nonlinear optical response of Au:TiO2 composite nanoparticle films. *Physica B: Condensed Matter*, **2005**, 357, 334-339	2.8	15
2	Ultrafast studies on the energy relaxation dynamics and the concentration dependence in Ag:Bi2O3 nanocomposite films. *Chemical Physics Letters*, **2005**, 413, 162-167	2.5	13
1	Manipulating the D:A interfacial energetics and intermolecular packing for 19.2% efficiency organic photovoltaics. *Energy and Environmental Science*,	35.4	54