Xiao-Ming Wen

List of Publications by Year in Descending Order

162 papers	6,471 citations	46 h-index	75 g-index
188 ext. papers	7,658 ext. citations	8.2 avg, IF	6.15 L-index

#	Paper	IF	Citations
162	InOOH-mediated intergrown heterojunctions for enhanced photocatalytic Performance: Assembly and interfacial charge carrier transferring. *Chemical Engineering Journal*, **2022**, 442, 136355	14.7	1
161	Controllable Acceleration and Deceleration of Charge Carrier Transport in Metal-Halide Perovskite Single-Crystal by Cs-Cation Induced Bandgap Engineering.. *Small*, **2022**, e2107680	11	1
160	Origin and physical effects of edge states in two-dimensional Ruddlesden-Popper perovskites. *IScience*, **2022**, 25, 104420	6.1	0
159	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. *Nanophotonics*, **2021**, 10, 2181-2219	6.3	9
158	Ni2+ doping induced structural phase transition and photoluminescence enhancement of CsPbBr3. *AIP Advances*, **2021**, 11, 115008	1.5	2
157	A room temperature all-optical sensor based on two-dimensional SnS for highly sensitive and reversible NO sensing. *Journal of Hazardous Materials*, **2021**, 127813	12.8	6
156	Metal-Organic Framework Decorated Cuprous Oxide Nanowires for Long-lived Charges Applied in Selective Photocatalytic CO Reduction to CH. *Angewandte Chemie - International Edition*, **2021**, 60, 8455-8459	16.4	57
155	Free-standing ultra-thin Janus indium oxysulfide for ultrasensitive visible-light-driven optoelectronic chemical sensing. *Nano Today*, **2021**, 37, 101096	17.9	15
154	Intermediate phase-enhanced Ostwald ripening for the elimination of phase segregation in efficient inorganic CsPbIBr2 perovskite solar cells. *Science China Materials*, **2021**, 64, 2655-2666	7.1	4
153	The critical role of composition-dependent intragrain planar defects in the performance of MA1−xFAxPbI3 perovskite solar cells. *Nature Energy*, **2021**, 6, 624-632	62.3	47
152	Revealing Dynamic Effects of Mobile Ions in Halide Perovskite Solar Cells Using Time-Resolved Microspectroscopy.. *Small Methods*, **2021**, 5, e2000731	12.8	9
151	Photogenerated charge dynamics of CdS nanorods with spatially distributed MoS2 for photocatalytic hydrogen generation. *Chemical Engineering Journal*, **2021**, 420, 127709	14.7	22
150	A high-performance visible-light-driven all-optical switch enabled by ultra-thin gallium sulfide. *Journal of Materials Chemistry C*, **2021**, 9, 3115-3121	7.1	2
149	Spectroscopic Insight into Efficient and Stable Hole Transfer at the Perovskite/Spiro-OMeTAD Interface with Alternative Additives. *ACS Applied Materials & Interfaces*, **2021**, 13, 5752-5761	9.5	10
148	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden−Popper halide perovskites. *Journal of Materials Chemistry C*, **2021**, 9, 8966-8974	7.1	6
147	Self-assembled carbon dot-wrapped perovskites enable light trapping and defect passivation for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 7508-7521	13	8
146	Metal−Organic Framework Decorated Cuprous Oxide Nanowires for Long-lived Charges Applied in Selective Photocatalytic CO2 Reduction to CH4. *Angewandte Chemie*, **2021**, 133, 8536-8540	3.6	3

145	Manipulating the Fate of Charge Carriers with Tungsten Concentration: Enhancing Photoelectrochemical Water Oxidation of Bi WO. *Small*, **2021**, 17, e2102023	11	3
144	Manipulating the Fate of Charge Carriers with Tungsten Concentration: Enhancing Photoelectrochemical Water Oxidation of Bi2WO6 (Small 35/2021). *Small*, **2021**, 17, 2170183	11	0
143	Enhancing stability and luminescence quantum yield of CsPbBr3 quantum dots by embedded in borosilicate glass. *Journal of Alloys and Compounds*, **2021**, 874, 159962	5.7	9
142	Photophysics of 2D Organic-Inorganic Hybrid Lead Halide Perovskites: Progress, Debates, and Challenges. *Advanced Science*, **2021**, 8, 2001843	13.6	24
141	Revealing the Role of Methylammonium Chloride for Improving the Performance of 2D Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 25980-25990	9.5	24
140	Determining In-Plane Carrier Diffusion in Two-Dimensional Perovskite Using Local Time-Resolved Photoluminescence. *ACS Applied Materials & Interfaces*, **2020**, 12, 26384-26390	9.5	14
139	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. *Nano Energy*, **2020**, 75, 104917	17.1	19
138	Efficient Energy Funnelling by Engineering the Bandgap of a Perovskite: Förster Resonance Energy Transfer or Charge Transfer?. *Journal of Physical Chemistry Letters*, **2020**, 11, 5963-5971	6.4	7
137	A pulse electrodeposited amorphous tunnel layer stabilises Cu2O for efficient photoelectrochemical water splitting under visible-light irradiation. *Journal of Materials Chemistry A*, **2020**, 8, 5638-5646	13	53
136	Light-Induced Formation of MoOS Clusters on CdS Nanorods as Cocatalyst for Enhanced Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2020**, 12, 8324-8332	9.5	51
135	Highly transparent and luminescent gel glass based on reabsorption-free gold nanoclusters. *Nanoscale*, **2020**, 12, 10781-10789	7.7	4
134	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. *Photonics Research*, **2020**, 8, A56	6	17
133	Visualizing the Impact of Light Soaking on Morphological Domains in an Operational Cesium Lead Halide Perovskite Solar Cell. *Journal of Physical Chemistry Letters*, **2020**, 11, 136-143	6.4	10
132	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. *ACS Applied Materials & Interfaces*, **2020**, 12, 38376-38385	9.5	15
131	An Emerging Lead-Free Double-Perovskite Cs2AgFeCl6:In Single Crystal. *Advanced Functional Materials*, **2020**, 30, 2002225	15.6	21
130	Tracking Dynamic Phase Segregation in Mixed-Halide Perovskite Single Crystals under Two-Photon Scanning Laser Illumination. *Small Methods*, **2019**, 3, 1900273	12.8	24
129	The Importance of the Interfacial Contact: Is Reduced Graphene Oxide Always an Enhancer in Photo(Electro)Catalytic Water Oxidation?. *ACS Applied Materials & Interfaces*, **2019**, 11, 23125-23134	9.5	28
128	Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. *Advanced Energy Materials*, **2019**, 9, 1901016	21.8	84

127	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. *Advanced Energy Materials*, **2019**, 9, 1900185	21.8	61
126	Transient Energy Reservoir in 2D Perovskites. *Advanced Optical Materials*, **2019**, 7, 1900971	8.1	33
125	The Dependence of Bi2MoO6 Photocatalytic Water Oxidation Capability on Crystal Facet Engineering. *ChemPhotoChem*, **2019**, 3, 1246-1253	3.3	11
124	The optical properties of CsPbBr-CsPbBr perovskite composites. *Nanoscale*, **2019**, 11, 14676-14683	7.7	26
123	LiTFSI-Free Spiro-OMeTAD-Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. *Advanced Energy Materials*, **2019**, 9, 1901519	21.8	46
122	Spatially Modulating the Fluorescence Color of Mixed-Halide Perovskite Nanoplatelets through Direct Femtosecond Laser Writing. *ACS Applied Materials & Interfaces*, **2019**, 11, 26017-26023	9.5	22
121	Long-Distance Ionic Diffusion in Cesium Lead Mixed Halide Perovskite Induced by Focused Illumination. *Chemistry of Materials*, **2019**, 31, 9049-9056	9.6	20
120	Exciton-Driven Chemical Sensors Based on Excitation-Dependent Photoluminescent Two-Dimensional SnS. *ACS Applied Materials & Interfaces*, **2019**, 11, 42462-42468	9.5	24
119	2D Plasmonic Tungsten Oxide Enabled Ultrasensitive Fiber Optics Gas Sensor. *Advanced Optical Materials*, **2019**, 7, 1901383	8.1	37
118	External stokes shift of perovskite nanocrystals enlarged by photon recycling. *Applied Physics Letters*, **2019**, 114, 011906	3.4	26
117	Tunable Type I and II heterojunction of CoOx nanoparticles confined in g-C3N4 nanotubes for photocatalytic hydrogen production. *Applied Catalysis B: Environmental*, **2019**, 244, 814-822	21.8	94
116	Improving the Photo-Oxidative Performance of BiMoO by Harnessing the Synergy between Spatial Charge Separation and Rational Co-Catalyst Deposition. *ACS Applied Materials & Interfaces*, **2018**, 10, 9342-9352	9.5	34
115	Dynamic study of the light soaking effect on perovskite solar cells by in-situ photoluminescence microscopy. *Nano Energy*, **2018**, 46, 356-364	17.1	37
114	Free charges versus excitons: photoluminescence investigation of InGaN/GaN multiple quantum well nanorods and their planar counterparts. *Nanoscale*, **2018**, 10, 5358-5365	7.7	12
113	Template-Free Synthesis of High-Yield Fe-Doped Cesium Lead Halide Perovskite Ultralong Microwires with Enhanced Two-Photon Absorption. *Journal of Physical Chemistry Letters*, **2018**, 9, 4878-4885	6.4	51
112	Construction of a Bi2MoO6:Bi2Mo3O12 heterojunction for efficient photocatalytic oxygen evolution. *Chemical Engineering Journal*, **2018**, 353, 636-644	14.7	33
111	Role of Surface Recombination in Halide Perovskite Nanoplatelets. *ACS Applied Materials & Interfaces*, **2018**, 10, 31586-31593	9.5	29
110	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. *ACS Applied Materials & Interfaces*, **2018**, 10, 31452-31461	9.5	35

109	Universal passivation strategy to slot-die printed SnO for hysteresis-free efficient flexible perovskite solar module. *Nature Communications*, **2018**, 9, 4609	17.4	392
108	Illumination-Induced Halide Segregation in Gradient Bandgap Mixed-Halide Perovskite Nanoplatelets. *Advanced Optical Materials*, **2018**, 6, 1801107	8.1	23
107	Chemical Dopant Engineering in Hole Transport Layers for Efficient Perovskite Solar Cells: Insight into the Interfacial Recombination. *ACS Nano*, **2018**, 12, 10452-10462	16.7	50
106	Oxygen-deficient bismuth tungstate and bismuth oxide composite photoanode with improved photostability. *Science Bulletin*, **2018**, 63, 990-996	10.6	20
105	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. *Nature Communications*, **2017**, 8, 14120	17.4	245
104	Spatial Distribution of Lead Iodide and Local Passivation on Organo-Lead Halide Perovskite. *ACS Applied Materials & Interfaces*, **2017**, 9, 6072-6078	9.5	50
103	Nanoscale characterization of GaN/InGaN multiple quantum wells on GaN nanorods by photoluminescence spectroscopy **2017**,		1
102	Unravelling charge carrier dynamics in protonated g-C3N4 interfaced with carbon nanodots as co-catalysts toward enhanced photocatalytic CO2 reduction: A combined experimental and first-principles DFT study. *Nano Research*, **2017**, 10, 1673-1696	10	290
101	Nanosecond long excited state lifetimes observed in hafnium nitride. *Solar Energy Materials and Solar Cells*, **2017**, 169, 13-18	6.4	15
100	Investigation of anti-solvent induced optical properties change of cesium lead bromide iodide mixed perovskite (CsPbBrI) quantum dots. *Journal of Colloid and Interface Science*, **2017**, 504, 586-592	9.3	22
99	Inverted Hysteresis in CHNHPbI Solar Cells: Role of Stoichiometry and Band Alignment. *Journal of Physical Chemistry Letters*, **2017**, 8, 2672-2680	6.4	49
98	Difference in hot carrier cooling rate between Langmuir-Blodgett and drop cast PbS QD films due to strong electron-phonon coupling. *Nanoscale*, **2017**, 9, 17133-17142	7.7	10
97	Hot carrier transfer processes in nonstoichiometric titanium hydride. *Japanese Journal of Applied Physics*, **2017**, 56, 08MA10	1.4	2
96	A New Passivation Route Leading to Over 8% Efficient PbSe Quantum-Dot Solar Cells via Direct Ion Exchange with Perovskite Nanocrystals. *Advanced Materials*, **2017**, 29, 1703214	24	64
95	Consolidation of the optoelectronic properties of CHNHPbBr perovskite single crystals. *Nature Communications*, **2017**, 8, 590	17.4	164
94	Potential of HfN, ZrN, and TiH as hot carrier absorber and Al2O3/Ge quantum well/Al2O3and Al2O3/PbS quantum dots/Al2O3as energy selective contacts. *Japanese Journal of Applied Physics*, **2017**, 56, 08MA03	1.4	10
93	Light Illumination Induced Photoluminescence Enhancement and Quenching in Lead Halide Perovskite. *Solar Rrl*, **2017**, 1, 1600001	7.1	88
92	Significant Improvement in the Performance of PbSe Quantum Dot Solar Cell by Introducing a CsPbBr3 Perovskite Colloidal Nanocrystal Back Layer. *Advanced Energy Materials*, **2017**, 7, 1601773	21.8	43

91	Quantification of hot carrier thermalization in PbS colloidal quantum dots by power and temperature dependent photoluminescence spectroscopy. *RSC Advances*, **2016**, 6, 90846-90855	3.7	16
90	Interfacing BiVO with Reduced Graphene Oxide for Enhanced Photoactivity: A Tale of Facet Dependence of Electron Shuttling. *Small*, **2016**, 12, 5295-5302	11	56
89	Nanoscale Characterization of Carrier Dynamic and Surface Passivation in InGaN/GaN Multiple Quantum Wells on GaN Nanorods. *ACS Applied Materials & Interfaces*, **2016**, 8, 31887-31893	9.5	29
88	Hole Transport Layer Free Inorganic CsPbIBr2 Perovskite Solar Cell by Dual Source Thermal Evaporation. *Advanced Energy Materials*, **2016**, 6, 1502202	21.8	317
87	Hafnium nitride for hot carrier solar cells. *Solar Energy Materials and Solar Cells*, **2016**, 144, 781-786	6.4	13
86	Ultrafast Carrier Dynamics in Methylammonium Lead Bromide Perovskite. *Journal of Physical Chemistry C*, **2016**, 120, 2542-2547	3.8	42
85	Defect trapping states and charge carrier recombination in organic□inorganic halide perovskites. *Journal of Materials Chemistry C*, **2016**, 4, 793-800	7.1	136
84	BiVO4 {010} and {110} Relative Exposure Extent: Governing Factor of Surface Charge Population and Photocatalytic Activity. *Journal of Physical Chemistry Letters*, **2016**, 7, 1400-5	6.4	195
83	Time-resolved fluorescence anisotropy study of organic lead halide perovskite. *Solar Energy Materials and Solar Cells*, **2016**, 151, 102-112	6.4	12
82	Mobile Ion Induced Slow Carrier Dynamics in Organic-Inorganic Perovskite CH□NH□PbBr□ *ACS Applied Materials & Interfaces*, **2016**, 8, 5351-7	9.5	87
81	Hot carrier dynamics in HfN and ZrN measured by transient absorption spectroscopy. *Solar Energy Materials and Solar Cells*, **2016**, 150, 51-56	6.4	12
80	Photoluminescence characterisations of a dynamic aging process of organic-inorganic CH3NH3PbBr3 perovskite. *Nanoscale*, **2016**, 8, 1926-31	7.7	47
79	Generation of hot carrier population in colloidal silicon quantum dots for high-efficiency photovoltaics. *Solar Energy Materials and Solar Cells*, **2016**, 145, 391-396	6.4	15
78	Effect of a ZnS intermediate layer on properties of Cu2ZnSnS4 films from sputtered Zn/CuSn precursors on Si (100) substrate **2016**,		1
77	Extended hot carrier lifetimes observed in bulk In0.265□0.02Ga0.735N under high-density photoexcitation. *Applied Physics Letters*, **2016**, 108, 131904	3.4	18
76	Observation of Hot Carriers Existing in Ag2S Nanoparticles and Its Implication on Solar Cell Application. *Journal of Physical Chemistry C*, **2016**, 120, 10199-10205	3.8	10
75	Nucleation and Growth Control of HC(NH2)2PbI3 for Planar Perovskite Solar Cell. *Journal of Physical Chemistry C*, **2016**, 120, 11262-11267	3.8	74
74	Electric field induced reversible and irreversible photoluminescence responses in methylammonium lead iodide perovskite. *Journal of Materials Chemistry C*, **2016**, 4, 9060-9068	7.1	61

73	Optical Probe Ion and Carrier Dynamics at the CH3NH3PbI3 Interface with Electron and Hole Transport Materials. *Advanced Materials Interfaces*, **2016**, 3, 1600467	4.6	18
72	Photocatalysis: Interfacing BiVO4 with Reduced Graphene Oxide for Enhanced Photoactivity: A Tale of Facet Dependence of Electron Shuttling (Small 38/2016). *Small*, **2016**, 12, 5232-5232	11	
71	Kesterite Cu2ZnSn(S,Se)4 Solar Cells with beyond 8% Efficiency by a Sol-Gel and Selenization Process. *ACS Applied Materials & Interfaces*, **2015**, 7, 14376-83	9.5	67
70	Mobile Charge-Induced Fluorescence Intermittency in Methylammonium Lead Bromide Perovskite. *Nano Letters*, **2015**, 15, 4644-9	11.5	97
69	Effect of Halide Treatments on PbSe Quantum Dot Thin Films: Stability, Hot Carrier Lifetime, and Application to Photovoltaics. *Journal of Physical Chemistry C*, **2015**, 119, 24149-24155	3.8	38
68	Enhanced Visible Light-Induced Charge Separation and Charge Transport in Cu2O-Based Photocathodes by Urea Treatment. *ACS Applied Materials & Interfaces*, **2015**, 7, 19887-93	9.5	25
67	Kesterite Cu2ZnSnS4 thin film solar cells by a facile DMF-based solution coating process. *Journal of Materials Chemistry C*, **2015**, 3, 10783-10792	7.1	52
66	Theoretical and Experimental Investigation of the Electronic Structure and Quantum Confinement of Wet-Chemistry Synthesized Ag2S Nanocrystals. *Journal of Physical Chemistry C*, **2015**, 119, 867-872	3.8	49
65	Fluorescent Metallic Nanoclusters: Electron Dynamics, Structure, and Applications. *Particle and Particle Systems Characterization*, **2015**, 32, 142-163	3.1	65
64	Study on the Ultrafast Carrier Dynamics in the Bulk In0.265GaN Thin Film. *Energy Procedia*, **2015**, 84, 165-175		3
63	Tunability Limit of Photoluminescence in Colloidal Silicon Nanocrystals. *Scientific Reports*, **2015**, 5, 12469	4.9	53
62	Effects of blend composition on the morphology of Si-PCPDTBT:PC71BM bulk heterojunction organic solar cells. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 1931-1940	1.6	8
61	Characterization of a Cu2ZnSnS4 solar cell fabricated by sulfurization of metallic precursor Mo/Zn/Cu/Sn. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2074-2079	1.6	5
60	Improving Efficiency of Evaporated Cu2ZnSnS4Thin Film Solar Cells by a Thin Ag Intermediate Layer between Absorber and Back Contact. *International Journal of Photoenergy*, **2015**, 2015, 1-9	2.1	26
59	Introducing a protective interlayer of TiO2 in Cu2O□CuO heterojunction thin film as a highly stable visible light photocathode. *RSC Advances*, **2015**, 5, 5231-5236	3.7	49
58	Methylammonium Lead Bromide Perovskite-Based Solar Cells by Vapor-Assisted Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 3545-3549	3.8	195
57	Radio frequency magnetron sputtered highly textured Cu2ZnSnS4 thin films on sapphire (0 0 0 1) substrates. *Journal of Alloys and Compounds*, **2015**, 632, 53-58	5.7	9
56	Efficient electron transfer in carbon nanodot□graphene oxide nanocomposites. *Journal of Materials Chemistry C*, **2014**, 2, 2894	7.1	77

55	Morphology and Carrier Extraction Study of Organic-Inorganic Metal Halide Perovskite by One- and Two-Photon Fluorescence Microscopy. *Journal of Physical Chemistry Letters*, **2014**, 5, 3849-53	6.4	80
54	Ultrafast electron transfer in the nanocomposite of the graphene oxide–Au nanocluster with graphene oxide as a donor. *Journal of Materials Chemistry C*, **2014**, 2, 3826-3834	7.1	71
53	Performance improvement of low bandgap polymer bulk heterojunction solar cells by incorporating P3HT. *Organic Electronics*, **2014**, 15, 2837-2846	3.5	15
52	On the upconversion fluorescence in carbon nanodots and graphene quantum dots. *Chemical Communications*, **2014**, 50, 4703-6	5.8	120
51	Dynamic study on the transformation process of gold nanoclusters. *Nanotechnology*, **2014**, 25, 445705	3.4	6
50	Evaluation of hafnium nitride and zirconium nitride as Hot Carrier absorber **2014**,		5
49	Evidence for a large phononic band gap leading to slow hot carrier thermalisation. *IOP Conference Series: Materials Science and Engineering*, **2014**, 68, 012002	0.4	9
48	Numerical calculation of optical phonon decay rate in InN/GaN MQW. *IOP Conference Series: Materials Science and Engineering*, **2014**, 68, 012009	0.4	5
47	Optical properties of gold particle-cluster core–satellite nanoassemblies. *RSC Advances*, **2013**, 3, 19609	3.7	12
46	Singlet and Triplet Carrier Dynamics in Rubrene Single Crystal. *Journal of Physical Chemistry C*, **2013**, 117, 17741-17747	3.8	19
45	Fluorescence origin and spectral broadening mechanism in atomically precise Au8 nanoclusters. *Nanoscale*, **2013**, 5, 10251-7	7.7	18
44	Induced pH-dependent shift by local surface plasmon resonance in functionalized gold nanorods. *Nanoscale Research Letters*, **2013**, 8, 103	5	10
43	Metallophilic Bond-Induced Quenching of Delayed Fluorescence in Au25@BSA Nanoclusters. *Particle and Particle Systems Characterization*, **2013**, 30, 467-472	3.1	28
42	Photoinduced Ultrafast Charge Separation in Plexcitonic CdSe/Au and CdSe/Pt Nanorods. *Journal of Physical Chemistry Letters*, **2013**, 4, 3596-3601	6.4	77
41	Confined Au-Pd Ensembles in Mesoporous TiO2 Spheres for the Photocatalytic Oxidation of Acetaldehyde. *ChemCatChem*, **2013**, 5, 3557-3561	5.2	17
40	The enhancement of electron-phonon coupling in glutathione-protected Au25 clusters. *Journal of Colloid and Interface Science*, **2013**, 402, 86-9	9.3	10
39	Quantum Confined Stark Effect in Au8 and Au25 Nanoclusters. *Journal of Physical Chemistry C*, **2013**, 117, 3621-3626	3.8	23
38	Intrinsic and Extrinsic Fluorescence in Carbon Nanodots: Ultrafast Time-Resolved Fluorescence and Carrier Dynamics. *Advanced Optical Materials*, **2013**, 1, 173-178	8.1	126

37	Heterogeneous nano-particle array for the realization of the hot carrier solar cell **2013**,		2
36	Temperature-Dependent Fluorescence in Carbon Dots. *Journal of Physical Chemistry C*, **2012**, 116, 25552-25557	4.8	321
35	Studies of the photostability of CdSe/CdS dot-in-rod nanoparticles. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	10
34	Temperature dependent spectral properties of type-I and quasi type-II CdSe/CdS dot-in-rod nanocrystals. *Physical Chemistry Chemical Physics*, **2012**, 14, 3505-12	3.6	44
33	Structure-Correlated Dual Fluorescent Bands in BSA-Protected Au25 Nanoclusters. *Journal of Physical Chemistry C*, **2012**, 116, 11830-11836	3.8	85
32	Fluorescence Dynamics in BSA-Protected Au25 Nanoclusters. *Journal of Physical Chemistry C*, **2012**, 116, 19032-19038	3.8	99
31	Temperature-Dependent Fluorescence in Au10 Nanoclusters. *Journal of Physical Chemistry C*, **2012**, 116, 6567-6571	3.8	71
30	Near-infrared enhanced carbon nanodots by thermally assisted growth. *Applied Physics Letters*, **2012**, 101, 163107	3.4	29
29	A highly efficient graphene oxide absorber for Q-switched Nd:GdVO4 lasers. *Nanotechnology*, **2011**, 22, 455203	3.4	74
28	Observation of back-surface reflected luminescence in GaAs excited by ultrashort pulses. *Applied Physics Letters*, **2009**, 94, 102101	3.4	1
27	Characterization of the back surface reflection in InP using femtosecond luminescence up-conversion. *Journal Physics D: Applied Physics*, **2009**, 42, 045115	3	
26	Thermal quenching of photoluminescence in ZnO/ZnMgO multiple quantum wells following oxygen implantation and rapid thermal annealing. *Journal of Luminescence*, **2009**, 129, 153-157	3.8	5
25	Synthesis, photophysical, and device properties of novel dendrimers based on a fluorene-hexabenzocoronene (FHBC) core. *Organic Letters*, **2009**, 11, 975-8	6.2	43
24	Ultrafast transient grating spectroscopy in silicon quantum dots. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4575-9	1.3	2
23	Suppression of the internal electric field effects in ZnO/Zn(0.7)Mg(0.3)O quantum wells by ion-implantation induced intermixing. *Nanotechnology*, **2008**, 19, 055205	3.4	26
22	Electron dynamics in modulation p-doped InGaAs/GaAs quantum dots. *European Physical Journal B*, **2008**, 62, 65-70	1.2	5
21	Two-photon optical characteristics of zinc oxide in bulk, low dimensional and nanoforms. *Journal of Luminescence*, **2007**, 126, 641-643	3.8	12
20	Femtosecond two-color three-pulse photon echoes for studying dephasing in silicon quantum dots. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 305-308	2.1	2

19	Temperature dependence of photoluminescence in silicon quantum dots. *Journal Physics D: Applied Physics*, **2007**, 40, 3573-3578	3	63
18	The state filling effect in p-doped InGaAs/GaAs quantum dots. *Journal of Physics Condensed Matter*, **2007**, 19, 386213	1.8	13
17	Ultrafast dynamics in ZnO/ZnMgO multiple quantum wells. *Nanotechnology*, **2007**, 18, 315403	3.4	8
16	Temperature dependent photoluminescence in oxygen ion implanted and rapid thermally annealed ZnO□nMgO multiple quantum wells. *Applied Physics Letters*, **2007**, 90, 221914	3.4	20
15	Excitation dependence of photoluminescence in silicon quantum dots. *New Journal of Physics*, **2007** , 9, 337-337	2.9	16
14	Carrier dynamics in p-type InGaAs/GaAs quantum dots. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 363-365	2.1	3
13	Observation of coherent biexcitons in ZnO□nMgO multiple quantum wells at room temperature. *Applied Physics Letters*, **2006**, 89, 182109	3.4	14
12	Proton irradiation-induced intermixing in InxGa1□As/InP quantum wells□he effect of In composition. *Semiconductor Science and Technology*, **2006**, 21, 1441-1446	1.8	5
11	Time-resolved and time-integrated photoluminescence analysis of state filling and quantum confinement of silicon quantum dots. *Journal of Applied Physics*, **2005**, 97, 013501	2.5	26
10	Characterization of enhanced emission from excimer laser treated ZnO ceramics using one- and two-photon luminescence spectroscopy and microscopy. *Journal of Luminescence*, **2004**, 106, 1-7	3.8	7
9	Confocal two-photon spectroscopy of red mercuric iodide. *Applied Physics Letters*, **2003**, 83, 425-427	3.4	11
8	The kinetics of exciton photoluminescence in mercuric iodide. *Journal of Physics and Chemistry of Solids*, **2002**, 63, 2107-2113	3.9	3
7	Time-resolved photoluminescence of red mercuric iodide. *Journal of Applied Physics*, **2002**, 91, 4095-4100	2.5	3
6	TIME-RESOLVED PHOTOLUMINESCENCE OF EXCITONS IN HgI2. *International Journal of Modern Physics B*, **2001**, 15, 3920-3923	1.1	4
5	Time-resolved photoluminescence of sintered ZnO ceramics. *Chinese Physics B*, **2001**, 10, 874-876		6
4	Improving Hole Transport and Extraction by Interface Engineering in Perovskite Solar Cells. *Energy Technology*,2101002	3.5	0
3	Energy Funneling in Quasi-2D Ruddlesden□opper Perovskites: Charge Transfer versus Resonant Energy Transfer. *Advanced Photonics Research*,2100283	1.9	0
2	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. *ACS Energy Letters*,1649-1658	20.1	15

1	Self-Assembled Perovskite Nanoislands on CH3NH3PbI3 Cuboid Single Crystals by Energetic Surface Engineering. *Advanced Functional Materials*,2105542	15.6	3