

Tianquan Lian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

16,512
citations

72
h-index

122
g-index

266
ext. papers

18,158
ext. citations

9.6
avg. IF

6.88
L-index

#	Paper	IF	Citations
240	Pt Particle Size Affects Both the Charge Separation and Water Reduction Efficiencies of CdS-Pt Nanorod Photocatalysts for Light Driven H ₂ Generation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	15
239	Contributions of exciton fine structure and hole trapping on the hole state filling effect in the transient absorption spectra of CdSe quantum dots.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054704	3.9	2
238	Polyoxometalate systems to probe catalyst environment and structure in water oxidation catalysis. <i>Advances in Inorganic Chemistry</i> , 2022 , 351-372	2.1	
237	Quantifying the Ligand-Induced Triplet Energy Transfer Barrier in a Quantum Dot-Based Upconversion System.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3002-3007	6.4	1
236	Exciton Transport and Interfacial Charge Transfer in Semiconductor Nanocrystals and Heterostructures. <i>Springer Handbooks</i> , 2022 , 985-1012	1.3	
235	Direct Observation of Surface Hole Accumulation Under Water Oxidation Conditions By Efish and Impedance Measurements. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-02, 1943-1943	0	
234	Slow Auger Recombination of Trapped Excitons Enables Efficient Multiple Electron Transfer in CdS-Pt Nanorod Heterostructures. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20264-20273	16.4	4
233	Photodriven water oxidation initiated by a surface bound chromophore-donor-catalyst assembly. <i>Chemical Science</i> , 2021 , 12, 14441-14450	9.4	2
232	Plasmon Energy Transfer in Hybrid Nanoantennas. <i>ACS Nano</i> , 2021 , 15, 9522-9530	16.7	8
231	An All-Atom Theory of Electron Transfer at Nanocrystal/Molecule Interfaces: A Hybrid LCAO/DFT Approach. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5116-5126	3.8	1
230	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO ₂ Interface. <i>ACS Photonics</i> , 2021 , 8, 1497-1504	6.3	12
229	Harvesting Sub-Bandgap IR Photons by Photothermionic Hot Electron Transfer in a Plasmonic p-n Junction. <i>Nano Letters</i> , 2021 , 21, 4036-4043	11.5	5
228	Deep Optical Switching on Subpicosecond Timescales in an Amorphous Ge Metamaterial. <i>Advanced Optical Materials</i> , 2021 , 9, 2100240	8.1	2
227	Enhancing the efficiency of semiconducting quantum dot photocatalyzed atom transfer radical polymerization by ligand shell engineering. <i>Journal of Chemical Physics</i> , 2021 , 154, 204903	3.9	6
226	Photoinduced Fano Resonances between Quantum Confined Nanocrystals and Adsorbed Molecular Catalysts. <i>Nano Letters</i> , 2021 , 21, 5813-5818	11.5	2
225	Radical Chain Reduction via Carbon Dioxide Radical Anion (CO ₂ ⁻). <i>Journal of the American Chemical Society</i> , 2021 , 143, 8987-8992	16.4	33
224	Ultrafast and Long-Lived Transient Heating of Surface Adsorbates on Plasmonic Semiconductor Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 453-461	11.5	13

223	Mechanistic Understanding and Rational Design of Quantum Dot/Mediator Interfaces for Efficient Photon Upconversion. <i>Accounts of Chemical Research</i> , 2021 , 54, 70-80	24.3	19
222	Nanoscale TiO Protection Layer Enhances the Built-In Field and Charge Separation Performance of GaP Photoelectrodes. <i>Nano Letters</i> , 2021 , 21, 8017-8024	11.5	2
221	Tafel Slope Analyses for Homogeneous Catalytic Reactions. <i>Catalysts</i> , 2021 , 11, 87	4	1
220	Vibrational Stark shift spectroscopy of catalysts under the influence of electric fields at electrode-solution interfaces. <i>Chemical Science</i> , 2021 , 12, 10131-10149	9.4	5
219	Rapid Capillary-Assisted Solution Printing of Perovskite Nanowire Arrays Enables Scalable Production of Photodetectors. <i>Angewandte Chemie</i> , 2020 , 132, 15052-15059	3.6	
218	Efficient Hot Electron Transfer from Small Au Nanoparticles. <i>Nano Letters</i> , 2020 , 20, 4322-4329	11.5	42
217	Rapid Capillary-Assisted Solution Printing of Perovskite Nanowire Arrays Enables Scalable Production of Photodetectors. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14942-14949	16.4	15
216	Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000999	24	71
215	Surface passivation extends single and biexciton lifetimes of InP quantum dots. <i>Chemical Science</i> , 2020 , 11, 5779-5789	9.4	24
214	On the Coupling of Electron Transfer to Proton Transfer at Electrified Interfaces. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11829-11834	16.4	14
213	Competition of Dexter, Förster, and charge transfer pathways for quantum dot sensitized triplet generation. <i>Journal of Chemical Physics</i> , 2020 , 152, 214702	3.9	15
212	Robust Binding of Disulfide-Substituted Rhenium Bipyridyl Complexes for CO Reduction on Gold Electrodes. <i>Frontiers in Chemistry</i> , 2020 , 8, 86	5	3
211	Photocarrier-Induced Active Control of Second-Order Optical Nonlinearity in Monolayer MoS. <i>Small</i> , 2020 , 16, e1906347	11	16
210	Anthracene Diphosphate Ligands for CdSe Quantum Dots; Molecular Design for Efficient Upconversion. <i>Chemistry of Materials</i> , 2020 , 32, 1461-1466	9.6	34
209	Transient Second-Order Nonlinear Media: Breaking the Spatial Symmetry in the Time Domain via Hot-Electron Transfer. <i>Physical Review Letters</i> , 2020 , 124, 013901	7.4	10
208	Surface-Ligand "Liquid" to "Crystalline" Phase Transition Modulates the Solar H Production Quantum Efficiency of CdS Nanorod/Mediator/Hydrogenase Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35614-35625	9.5	10
207	Tuning the Quantum Dot (QD)/Mediator Interface for Optimal Efficiency of QD-Sensitized Near-Infrared-to-Visible Photon Upconversion Systems. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36558-36567	9.5	18
206	Perovskite Solar Cells: Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells (Adv. Mater. 28/2020). <i>Advanced Materials</i> , 2020 , 32, 2070211	24	

205	How Exciton and Single Carriers Block the Excitonic Transition in Two-Dimensional Cadmium Chalcogenide Nanoplatelets. <i>Nano Letters</i> , 2020 , 20, 6162-6169	11.5	6
204	Ion-pairing in polyoxometalate chemistry: impact of fully hydrated alkali metal cations on properties of the keggin [PWO] anion. <i>Dalton Transactions</i> , 2020 , 49, 11170-11178	4.3	0
203	Enhanced intersystem crossing of boron dipyrromethene by TEMPO radical. <i>Journal of Chemical Physics</i> , 2020 , 153, 154201	3.9	3
202	Top reviewers for The Journal of Chemical Physics 2018-2019. <i>Journal of Chemical Physics</i> , 2020 , 153, 100201	3.9	
201	Evolution from Tunneling to Hopping Mediated Triplet Energy Transfer from Quantum Dots to Molecules. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17581-17588	16.4	17
200	Trap state mediated triplet energy transfer from CdSe quantum dots to molecular acceptors. <i>Journal of Chemical Physics</i> , 2020 , 153, 074703	3.9	16
199	Enhanced Light-Driven Charge Separation and H Generation Efficiency in WSe Nanosheet-Semiconductor Nanocrystal Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44769-44776	9.5	7
198	Exciton Spatial Coherence and Optical Gain in Colloidal Two-Dimensional Cadmium Chalcogenide Nanoplatelets. <i>Accounts of Chemical Research</i> , 2019 , 52, 2684-2693	24.3	17
197	Special Topic on Interfacial Electrochemistry and Photo(electro)catalysis. <i>Journal of Chemical Physics</i> , 2019 , 150, 041401	3.9	3
196	Size- and Morphology-Dependent Auger Recombination in CsPbBr Perovskite Two-Dimensional Nanoplatelets and One-Dimensional Nanorods. <i>Nano Letters</i> , 2019 , 19, 5620-5627	11.5	38
195	Enhanced Near-Infrared-to-Visible Upconversion by Synthetic Control of PbS Nanocrystal Triplet Photosensitizers. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9769-9772	16.4	38
194	Direct triplet sensitization of oligothiophene by quantum dots. <i>Chemical Science</i> , 2019 , 10, 6120-6124	9.4	16
193	Heterogenized Molecular Catalysts: Vibrational Sum-Frequency Spectroscopic, Electrochemical, and Theoretical Investigations. <i>Accounts of Chemical Research</i> , 2019 , 52, 1289-1300	24.3	34
192	Reducing the Optical Gain Threshold in Two-Dimensional CdSe Nanoplatelets by the Giant Oscillator Strength Transition Effect. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1624-1632	6.4	26
191	Modulating electronic coupling at the quantum dot/molecule interface by wavefunction engineering. <i>Journal of Chemical Physics</i> , 2019 , 150, 124704	3.9	2
190	Effect of Surface Ligand on Charge Separation and Recombination at CsPbI ₃ Perovskite Quantum Dot/TiO ₂ Interfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21415-21421	3.8	12
189	Size dependent charge separation and recombination in CsPbI perovskite quantum dots. <i>Journal of Chemical Physics</i> , 2019 , 151, 074705	3.9	21
188	Time-variant metasurfaces enable tunable spectral bands of negative extinction. <i>Optica</i> , 2019 , 6, 1441	8.6	12

187	Enhanced triplet state generation through radical pair intermediates in BODIPY-quantum dot complexes. <i>Journal of Chemical Physics</i> , 2019 , 151, 241101	3.9	13
186	Ultrafast Charge Separation in Two-Dimensional CsPbBr Perovskite Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 566-573	6.4	51
185	A bulk adjusted linear combination of atomic orbitals (BA-LCAO) approach for nanoparticles. <i>Journal of Computational Chemistry</i> , 2019 , 40, 212-221	3.5	2
184	Exciton dissociation dynamics and light-driven H ₂ generation in colloidal 2D cadmium chalcogenide nanoplatelet heterostructures. <i>Nano Research</i> , 2018 , 11, 3031-3049	10	29
183	Effects of Al ₂ O ₃ atomic layer deposition on interfacial structure and electron transfer dynamics at Re-bipyridyl complex/TiO ₂ interfaces. <i>Chemical Physics</i> , 2018 , 512, 68-74	2.3	5
182	Hot-Electron-Assisted Femtosecond All-Optical Modulation in Plasmonics. <i>Advanced Materials</i> , 2018 , 30, 1704915	24	37
181	Shell-Thickness-Dependent Biexciton Lifetime in Type I and Quasi-Type II Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14091-14098	3.8	35
180	Dopant-Dependent SFG Response of Rhenium CO ₂ Reduction Catalysts Chemisorbed on SrTiO ₃ (100) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13944-13952	3.8	8
179	Quantum Confinement Theory of Auger-Assisted Biexciton Recombination Dynamics in Type-I and Quasi Type-II Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18742-18750	3.8	9
178	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. <i>Nano Letters</i> , 2018 , 18, 5544-5551	11.5	37
177	Mechanism of Efficient Viologen Radical Generation by Ultrafast Electron Transfer from CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17136-17142	3.8	23
176	Multi-Tasking POM Systems. <i>Frontiers in Chemistry</i> , 2018 , 6, 365	5	16
175	Two-Dimensional Morphology Enhances Light-Driven H ₂ Generation Efficiency in CdS Nanoplatelet-Pt Heterostructures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11726-11734	16.4	87
174	Electron-Hole-Pair-Induced Vibrational Energy Relaxation of Rhenium Catalysts on Gold Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 406-412	6.4	17
173	A model for optical gain in colloidal nanoplatelets. <i>Chemical Science</i> , 2018 , 9, 728-734	9.4	24
172	CO Reduction Catalysts on Gold Electrode Surfaces Influenced by Large Electric Fields. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17643-17655	16.4	66
171	Conjugated Oligomers with Stable Radical Substituents: Synthesis, Single Crystal Structures, Electronic Structure, and Excited State Dynamics. <i>Chemistry of Materials</i> , 2018 , 30, 7840-7851	9.6	11
170	Sharp and Tunable Crystal/Fano-Type Resonances Enabled by Out-of-Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. <i>Annalen Der Physik</i> , 2018 , 530, 1700395	2.6	7

169	Low Threshold Multiexciton Optical Gain in Colloidal CdSe/CdTe Core/Crown Type-II Nanoplatelet Heterostructures. <i>ACS Nano</i> , 2017 , 11, 2545-2553	16.7	52
168	Area- and Thickness-Dependent Biexciton Auger Recombination in Colloidal CdSe Nanoplatelets: Breaking the "Universal Volume Scaling Law". <i>Nano Letters</i> , 2017 , 17, 3152-3158	11.5	83
167	Exciton dynamics in cation-exchanged CdSe/PbSe nanorods: The role of defects. <i>Chemical Physics Letters</i> , 2017 , 683, 342-346	2.5	7
166	Efficient Diffusive Transport of Hot and Cold Excitons in Colloidal Type II CdSe/CdTe Core/Crown Nanoplatelet Heterostructures. <i>ACS Energy Letters</i> , 2017 , 2, 174-181	20.1	32
165	High-Efficiency Optical Gain in Type-II Semiconductor Nanocrystals of Alloyed Colloidal Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5317-5324	6.4	30
164	Type I vs. quasi-type II modulation in CdSe@CdS tetrapods: ramifications for noble metal tipping. <i>CrystEngComm</i> , 2017 , 19, 6443-6453	3.3	11
163	Balancing electron transfer rate and driving force for efficient photocatalytic hydrogen production in CdSe/CdS nanorod/[NiFe] hydrogenase assemblies. <i>Energy and Environmental Science</i> , 2017 , 10, 2245-2255	35.4	72
162	Interfacial Structure and Electric Field Probed by in Situ Electrochemical Vibrational Stark Effect Spectroscopy and Computational Modeling. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18674-18682	3.8	50
161	PbS/CdS Core-Shell Quantum Dots Suppress Charge Transfer and Enhance Triplet Transfer. <i>Angewandte Chemie</i> , 2017 , 129, 16810-16814	3.6	10
160	PbS/CdS Core-Shell Quantum Dots Suppress Charge Transfer and Enhance Triplet Transfer. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16583-16587	16.4	56
159	Self-Assembly of an α -Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16274-16282	16.4	37
158	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13067-13071	16.4	37
157	Competition of branch-to-core exciton localization and interfacial electron transfer in CdSe tetrapods. <i>Chemical Physics</i> , 2016 , 471, 32-38	2.3	10
156	Surface-Induced Anisotropic Binding of a Rhenium CO ₂ -Reduction Catalyst on Rutile TiO ₂ (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20970-20977	3.8	31
155	Size-Independent Exciton Localization Efficiency in Colloidal CdSe/CdS Core/Crown Nanosheet Type-I Heterostructures. <i>ACS Nano</i> , 2016 , 10, 3843-51	16.7	54
154	Enhancing photo-reduction quantum efficiency using quasi-type II core/shell quantum dots. <i>Chemical Science</i> , 2016 , 7, 4125-4133	9.4	29
153	Geometry strategy for engineering the recombination possibility of excitons in nanowires. <i>Nanoscale</i> , 2016 , 8, 7318-25	7.7	
152	Self-assembly of polyoxometalates, Pt nanoparticles and metal-organic frameworks into a hybrid material for synergistic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5952-5957	13	65

151	Ultrafast Photoinduced Interfacial Proton Coupled Electron Transfer from CdSe Quantum Dots to 4,4MBipyridine. <i>Journal of the American Chemical Society</i> , 2016 , 138, 884-92	16.4	42
150	Orientation of Cyano-Substituted Bipyridine Re(I)fac-Tricarbonyl Electrocatalysts Bound to Conducting Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1657-1665	3.8	35
149	Quasi-type II CuInS/CdS core/shell quantum dots. <i>Chemical Science</i> , 2016 , 7, 1238-1244	9.4	40
148	Mimicking Photosynthesis with Supercomplexed Lipid Nanoassemblies: Design, Performance, and Enhancement Role of Cholesterol. <i>Langmuir</i> , 2016 , 32, 7326-38	4	2
147	Quantum confined colloidal nanorod heterostructures for solar-to-fuel conversion. <i>Chemical Society Reviews</i> , 2016 , 45, 3781-810	58.5	198
146	Charge Transfer Dynamics from Photoexcited Semiconductor Quantum Dots. <i>Annual Review of Physical Chemistry</i> , 2016 , 67, 259-81	15.7	114
145	Transition Metal Substitution Effects on Metal-to-Polyoxometalate Charge Transfer. <i>Inorganic Chemistry</i> , 2016 , 55, 4308-19	5.1	19
144	Direct Observation of Photoexcited Hole Localization in CdSe Nanorods. <i>ACS Energy Letters</i> , 2016 , 1, 76-81	20.1	16
143	Water splitting with polyoxometalate-treated photoanodes: enhancing performance through sensitizer design. <i>Chemical Science</i> , 2015 , 6, 5531-5543	9.4	58
142	Efficient Extraction of Trapped Holes from Colloidal CdS Nanorods. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10224-30	16.4	146
141	Universal Length Dependence of Rod-to-Seed Exciton Localization Efficiency in Type I and Quasi-Type II CdSe@CdS Nanorods. <i>ACS Nano</i> , 2015 , 9, 4591-9	16.7	76
140	Ultrafast Interfacial Electron and Hole Transfer from CsPbBr ₃ Perovskite Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12792-5	16.4	348
139	High Stability of Immobilized Polyoxometalates on TiO ₂ Nanoparticles and Nanoporous Films for Robust, Light-Induced Water Oxidation. <i>Chemistry of Materials</i> , 2015 , 27, 5886-5891	9.6	59
138	[{Ni ₄ (OH) ₃ AsO ₄ } ₄ (B-PW ₉ O ₃₄) ₄](28-): A New Polyoxometalate Structural Family with Catalytic Hydrogen Evolution Activity. <i>Chemistry - A European Journal</i> , 2015 , 21, 17363-70	4.8	36
137	Efficient and ultrafast formation of long-lived charge-transfer exciton state in atomically thin cadmium selenide/cadmium telluride type-II heteronanosheets. <i>ACS Nano</i> , 2015 , 9, 961-8	16.7	91
136	Ultrafast exciton quenching by energy and electron transfer in colloidal CdSe nanosheet-Pt heterostructures. <i>Chemical Science</i> , 2015 , 6, 1049-1054	9.4	73
135	A Hybrid Quantum Mechanical Approach: Intimate Details of Electron Transfer between Type-I CdSe/ZnS Quantum Dots and an Anthraquinone Molecule. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7651-8	3.4	23
134	Ultrafast exciton dynamics and light-driven H ₂ evolution in colloidal semiconductor nanorods and Pt-tipped nanorods. <i>Accounts of Chemical Research</i> , 2015 , 48, 851-9	24.3	143

133	Multiple exciton dissociation and hot electron extraction by ultrafast interfacial electron transfer from PbS QDs. <i>Coordination Chemistry Reviews</i> , 2014 , 263-264, 229-238	23.2	36
132	Auger-assisted electron transfer from photoexcited semiconductor quantum dots. <i>Nano Letters</i> , 2014 , 14, 1263-9	11.5	160
131	Compact and blinking-suppressed quantum dots for single-particle tracking in live cells. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14140-7	3.4	51
130	Wavelength dependent efficient photoreduction of redox mediators using type II ZnSe/CdS nanorod heterostructures. <i>Chemical Science</i> , 2014 , 5, 3905-3914	9.4	25
129	All-inorganic networks and tetramer based on tin(II)-containing polyoxometalates: tuning structural and spectral properties with lone-pairs. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12085-91	16.4	39
128	Structurally defined nanoscale sheets from self-assembly of collagen-mimetic peptides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4300-8	16.4	108
127	An Infinite Order Discrete Variable Representation of an Effective Mass Hamiltonian: Application to Exciton Wave Functions in Quantum Confined Nanostructures. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3409-16	6.4	3
126	Extending metal-to-polyoxometalate charge transfer lifetimes: the effect of heterometal location. <i>Chemistry - A European Journal</i> , 2014 , 20, 4297-307	4.8	29
125	A noble-metal-free, tetra-nickel polyoxotungstate catalyst for efficient photocatalytic hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14015-8	16.4	165
124	Hole removal rate limits photodriven H ₂ generation efficiency in CdS-Pt and CdSe/CdS-Pt semiconductor nanorod-metal tip heterostructures. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7708-16	16.4	296
123	Exciton localization and dissociation dynamics in CdS and CdS-Pt quantum confined nanorods: effect of nonuniform rod diameters. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14062-9	3.4	36
122	Thin Films: Layer-by-Layer Assembly of Mixed Nanoparticles 2014 , 4898-4907		
121	Charging of quantum dots by sulfide redox electrolytes reduces electron injection efficiency in quantum dot sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11461-4	16.4	51
120	High-Resolution Imaging of Electric Field Enhancement and Energy-Transfer Quenching by a Single Silver Nanowire Using QD-Modified AFM Tips. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2284-2291	6.4	7
119	Bulk transport and interfacial transfer dynamics of photogenerated carriers in CdSe quantum dot solid electrodes. <i>Nano Letters</i> , 2013 , 13, 3678-83	11.5	17
118	Beyond band alignment: hole localization driven formation of three spatially separated long-lived exciton states in CdSe/CdS nanorods. <i>ACS Nano</i> , 2013 , 7, 7173-85	16.7	78
117	Visible-light-driven hydrogen evolution from water using a noble-metal-free polyoxometalate catalyst. <i>Journal of Catalysis</i> , 2013 , 307, 48-54	7.3	83
116	Unraveling the exciton quenching mechanism of quantum dots on antimony-doped SnO ₂ films by transient absorption and single dot fluorescence spectroscopy. <i>ACS Nano</i> , 2013 , 7, 1599-608	16.7	17

115	Plasmon-induced hot electron transfer from the Au tip to CdS rod in CdS-Au nanoheterostructures. <i>Nano Letters</i> , 2013 , 13, 5255-63	11.5	250
114	Probing spatially dependent photoinduced charge transfer dynamics to TiO ₂ nanoparticles using single quantum dot modified atomic force microscopy tips. <i>Nano Letters</i> , 2013 , 13, 5563-9	11.5	13
113	An inorganic chromophore based on a molecular oxide supported metal carbonyl cluster: [P ₂ W ₁₇ O ₆₁ {Re(CO) ₃ } ₃ {ORb(H ₂ O)}(β-OH)] ⁹⁻ . <i>Inorganic Chemistry</i> , 2013 , 52, 13490-5	5.1	23
112	Exciton annihilation and dissociation dynamics in group II-V Cd ₃ P ₂ quantum dots. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 6362-72	2.8	22
111	Long lived charge separation in iridium(III)-photosensitized polyoxometalates: synthesis, photophysical and computational studies of organometallic redox tunable oxide assemblies. <i>Chemical Science</i> , 2013 , 4, 1737	9.4	68
110	Vibrational relaxation dynamics of catalysts on TiO ₂ Rutile (110) single crystal surfaces and anatase nanoporous thin films. <i>Chemical Physics</i> , 2013 , 422, 264-271	2.3	21
109	Electron Transfer Dynamics in Semiconductor-Chromophore-Polyoxometalate Catalyst Photoanodes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 918-926	3.8	100
108	Synthesis, structures, and photochemistry of tricarbonyl metal polyoxoanion complexes, [X ₂ W ₂₀ O ₇₀ {M(CO) ₃ } ₂] ₁₂ [X = Sb, Bi and M = Re, Mn]. <i>Inorganic Chemistry</i> , 2013 , 52, 671-8	5.1	46
107	Multiexciton annihilation and dissociation in quantum confined semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , 2013 , 46, 1270-9	24.3	80
106	Interfacial charge separation and recombination in InP and quasi-type II InP/CdS core/shell quantum dot-molecular acceptor complexes. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 7561-70	2.8	58
105	Orientation of a Series of CO ₂ Reduction Catalysts on Single Crystal TiO ₂ Probed by Phase-Sensitive Vibrational Sum Frequency Generation Spectroscopy (PS-VSFG). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24107-24114	3.8	39
104	Ultrafast Vibrational Relaxation Dynamics of a Rhenium Bipyridyl CO ₂ Reduction Catalyst at a Au Electrode Surface Probed by Time-Resolved Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26377-26384	3.8	31
103	Near unity quantum yield of light-driven redox mediator reduction and efficient H ₂ generation using colloidal nanorod heterostructures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11701-8	16.4	207
102	Strong electronic coupling and ultrafast electron transfer between PbS quantum dots and TiO ₂ nanocrystalline films. <i>Nano Letters</i> , 2012 , 12, 303-9	11.5	121
101	Structural Modification of TiO ₂ Surfaces in Bulk Water and Binding Motifs of a Functionalized C ₆₀ on TiO ₂ Anatase and Rutile Surfaces in Vacuo and in Water: Molecular Dynamics Studies. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20937-20948	3.8	4
100	Polyoxometalate water oxidation catalysts and the production of green fuel. <i>Chemical Society Reviews</i> , 2012 , 41, 7572-89	58.5	593
99	Wave function engineering for efficient extraction of up to nineteen electrons from one CdSe/CdS quasi-type II quantum dot. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4250-7	16.4	178
98	In situ probe of photocarrier dynamics in water-splitting hematite (Fe ₂ O ₃) electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 8923	35.4	109

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