

Tianquan Lian

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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	Polyoxometalate water oxidation catalysts and the production of green fuel. <i>Chemical Society Reviews</i> , 2012 , 41, 7572-89	58.5	593
239	Ultrafast Electron Transfer Dynamics from Molecular Adsorbates to Semiconductor Nanocrystalline Thin Films. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4545-4557	3.4	558
238	Phenyl-Conjugated Oligoene Sensitizers for TiO ₂ Solar Cells. <i>Chemistry of Materials</i> , 2004 , 16, 1806-1812	2.6	518
237	Ultrafast electron transfer at the molecule-semiconductor nanoparticle interface. <i>Annual Review of Physical Chemistry</i> , 2005 , 56, 491-519	15.7	426
236	Ultrafast charge separation and long-lived charge separated state in photocatalytic CdS-Pt nanorod heterostructures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10337-40	16.4	365
235	Femtosecond IR Study of Excited-State Relaxation and Electron-Injection Dynamics of Ru(dcbpy) ₂ (NCS) ₂ in Solution and on Nanocrystalline TiO ₂ and Al ₂ O ₃ Thin Films. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3110-3119	3.4	353
234	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
233	Controlling charge separation and recombination rates in CdSe/ZnS type I core-shell quantum dots by shell thicknesses. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15038-45	16.4	327
232	Homogeneous light-driven water oxidation catalyzed by a tetraruthenium complex with all inorganic ligands. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7522-3	16.4	320
231	Efficient light-driven carbon-free cobalt-based molecular catalyst for water oxidation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2068-71	16.4	309
230	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
229	Dynamics of Electron Injection in Nanocrystalline Titanium Dioxide Films Sensitized with [Ru(4,4'-dicarboxy-2,2'-bipyridine) ₂ (NCS) ₂] by Infrared Transient Absorption. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6455-6458	3.4	260
228	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
227	Evidences of hot excited state electron injection from sensitizer molecules to TiO ₂ nanocrystalline thin films. <i>Research on Chemical Intermediates</i> , 2001 , 27, 393-406	2.8	240
226	Photoinduced ultrafast electron transfer from CdSe quantum dots to Re-bipyridyl complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5632-3	16.4	216
225	The Mechanism of a C-H Bond Activation Reaction in Room-Temperature Alkane Solution. <i>Science</i> , 1997 , 278, 260-263	33.3	214
224	Parameters Affecting Electron Injection Dynamics from Ruthenium Dyes to Titanium Dioxide Nanocrystalline Thin Film. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7376-7386	3.4	210

223	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
222	Ultrafast charge separation at CdS quantum dot/rhodamine B molecule interface. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15132-3	16.4	203
221	Quantum confined colloidal nanorod heterostructures for solar-to-fuel conversion. <i>Chemical Society Reviews</i> , 2016 , 45, 3781-810	58.5	198
220	Bridge Length-Dependent Ultrafast Electron Transfer from Re Polypyridyl Complexes to Nanocrystalline TiO ₂ Thin Films Studied by Femtosecond Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 11957-11964	3.4	192
219	Multiple exciton dissociation in CdSe quantum dots by ultrafast electron transfer to adsorbed methylene blue. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4858-64	16.4	191
218	Wave function engineering for ultrafast charge separation and slow charge recombination in type II core/shell quantum dots. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8762-71	16.4	183
217	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
216	Direct Observation of Ultrafast Electron Injection from Coumarin 343 to TiO ₂ Nanoparticles by Femtosecond Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6482-6486	3.4	177
215	Comparison of Electron Transfer Dynamics in Molecule-to-Nanoparticle and Intramolecular Charge Transfer Complexes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9434-9440	3.4	173
214	Interfacial Electron Transfer between Fe(II)(CN) ₆ ⁴⁻ and TiO ₂ Nanoparticles: Direct Electron Injection and Nonexponential Recombination. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10208-10215	3.4	171
213	Energy Flow from Solute to Solvent Probed by Femtosecond IR Spectroscopy: Malachite Green and Heme Protein Solutions. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 11648-11656		169
212	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
211	Auger-assisted electron transfer from photoexcited semiconductor quantum dots. <i>Nano Letters</i> , 2014 , 14, 1263-9	11.5	160
210	Back Electron Transfer from TiO ₂ Nanoparticles to Fe(III)(CN) ₆ ³⁻ : Origin of Non-Single-Exponential and Particle Size Independent Dynamics. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 93-104	3.4	156
209	Exciton Dissociation in CdSe Quantum Dots by Hole Transfer to Phenothiazine. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19734-19738	3.8	150
208	Efficient Extraction of Trapped Holes from Colloidal CdS Nanorods. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10224-30	16.4	146
207	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
206	Cs ₉ [(γ -PW(10)O(36))(2)Ru(4)O(5)(OH)(H(2)O)(4)], a new all-inorganic, soluble catalyst for the efficient visible-light-driven oxidation of water. <i>Chemical Communications</i> , 2010 , 46, 2784-6	5.8	135

205	Electron transfer dynamics from single CdSe/ZnS quantum dots to TiO ₂ nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2448-54	11.5	135
204	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
203	Ultrafast electron injection from metal polypyridyl complexes to metal-oxide nanocrystalline thin films. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1231-1246	23.2	117
202	Electron Injection Dynamics from Ru Polypyridyl Complexes to ZnO Nanocrystalline Thin Films. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14414-14421	3.4	117
201	Femtosecond Infrared Studies of the Dissociation and Dynamics of Transition Metal Carbonyls in Solution. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 11994-12001		115
200	Wavefunction engineering in quantum confined semiconductor nanoheterostructures for efficient charge separation and solar energy conversion. <i>Energy and Environmental Science</i> , 2012 , 5, 9406	35.4	114
199	Enhanced multiple exciton dissociation from CdSe quantum rods: the effect of nanocrystal shape. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11289-97	16.4	114
198	Charge Transfer Dynamics from Photoexcited Semiconductor Quantum Dots. <i>Annual Review of Physical Chemistry</i> , 2016 , 67, 259-81	15.7	114
197	Layer-by-Layer Assembly of CdSe Nanoparticles Based on Hydrogen Bonding. <i>Langmuir</i> , 2000 , 16, 7879-7881	16.8	112
196	Effect of Trap States on Interfacial Electron Transfer between Molecular Absorbates and Semiconductor Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10191-10198	3.4	111
195	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
194	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
193	Poisson-distributed electron-transfer dynamics from single quantum dots to C ₆₀ molecules. <i>ACS Nano</i> , 2011 , 5, 613-21	16.7	106
192	Buildup of Polymer/Au Nanoparticle Multilayer Thin Films Based on Hydrogen Bonding. <i>Chemistry of Materials</i> , 2000 , 12, 3392-3396	9.6	106
191	Competition between Energy and Electron Transfer from CdSe QDs to Adsorbed Rhodamine B. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 962-969	3.8	104
190	Electron Transfer Dynamics in Semiconductor-Chromophore-Polyoxometalate Catalyst Photoanodes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 918-926	3.8	100
189	Multiple-Exponential Electron Injection in Ru(dcbpy) ₂ (SCN) ₂ Sensitized ZnO Nanocrystalline Thin Films. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6643-6647	3.4	99
188	Multiple exciton generation and dissociation in PbS quantum dot-electron acceptor complexes. <i>Nano Letters</i> , 2012 , 12, 4235-41	11.5	97

187	Ultrafast charge separation and recombination dynamics in lead sulfide quantum dot-methylene blue complexes probed by electron and hole intraband transitions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9246-9	16.4	95
186	Intermittent electron transfer activity from single CdSe/ZnS quantum dots. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11280-1	16.4	95
185	Covalent attachment of a rhenium bipyridyl CO ₂ reduction catalyst to Rutile TiO ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 6922-5	16.4	94
184	Synthesis of Au@Pd core-shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. <i>Chemical Physics Letters</i> , 2005 , 408, 354-359	2.5	93
183	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
182	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
181	Comparison of Electron-Transfer Dynamics from Coumarin 343 to TiO ₂ , SnO ₂ , and ZnO Nanocrystalline Thin Films: Role of Interface-Bound Charge-Separated Pairs. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6560-6566	3.8	85
180	Suppressed blinking dynamics of single QDs on ITO. <i>ACS Nano</i> , 2010 , 4, 1545-52	16.7	84
179	Comparison of interfacial electron transfer through carboxylate and phosphonate anchoring groups. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6832-42	2.8	84
178	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
177	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
176	Multiexciton annihilation and dissociation in quantum confined semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , 2013 , 46, 1270-9	24.3	80
175	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
174	Ultrafast and long-lived photoinduced charge separation in MEH-PPV/nanoporous semiconductor thin film composites. <i>Chemical Physics Letters</i> , 2001 , 347, 304-310	2.5	77
173	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
172	Ultrafast Excited-State Dynamics of Re(CO) ₃ Cl(dcbpy) in Solution and on Nanocrystalline TiO ₂ and ZrO ₂ Thin Films. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 4291-4299	2.8	75
171	Synthesis and characterization of a metal-to-polyoxometalate charge transfer molecular chromophore. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20134-7	16.4	74
170	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

- 169 Bridge-Assisted Ultrafast Interfacial Electron Transfer to Nanocrystalline SnO₂ Thin Films. *Journal of Physical Chemistry B*, **2003**, 107, 14231-14239 3.4 73
- 168 Balancing electron transfer rate and driving force for efficient photocatalytic hydrogen production in CdSe/CdS nanorod/[NiFe] hydrogenase assemblies. *Energy and Environmental Science*, **2017**, 10, 2245-2253 35.4 72
- 167 Synergistic Cascade Carrier Extraction via Dual Interfacial Positioning of Ambipolar Black Phosphorene for High-Efficiency Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e2000999 24 71
- 166 Long lived charge separation in iridium(III)-photosensitized polyoxometalates: synthesis, photophysical and computational studies of organometallic redox tunable oxide assemblies. *Chemical Science*, **2013**, 4, 1737 9.4 68
- 165 CO Reduction Catalysts on Gold Electrode Surfaces Influenced by Large Electric Fields. *Journal of the American Chemical Society*, **2018**, 140, 17643-17655 16.4 66
- 164 Self-assembly of polyoxometalates, Pt nanoparticles and metal-organic frameworks into a hybrid material for synergistic hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 5952-5957 13 65
- 163 Time-Dependent Vibration Stokes Shift during Solvation: Experiment and Theory. *Bulletin of the Chemical Society of Japan*, **2002**, 75, 973-983 5.1 64
- 162 Femtosecond IR Studies of Alkane C-H Bond Activation by Organometallic Compounds: Direct Observation of Reactive Intermediates in Room Temperature Solutions. *Journal of the American Chemical Society*, **1996**, 118, 3769-3770 16.4 64
- 161 Electron injection dynamics of Ru polypyridyl complexes on SnO₂ nanocrystalline thin films. *Journal of Physical Chemistry B*, **2005**, 109, 7088-94 3.4 62
- 160 pH-dependent electron transfer from re-bipyridyl complexes to metal oxide nanocrystalline thin films. *Journal of Physical Chemistry B*, **2005**, 109, 19345-55 3.4 61
- 159 Vibrational relaxation of CN stretch of pseudo-halide anions (OCN⁻, SCN⁻, and SeCN⁻) in polar solvents. *Journal of Physical Chemistry B*, **2006**, 110, 19990-7 3.4 61
- 158 High Stability of Immobilized Polyoxometalates on TiO₂ Nanoparticles and Nanoporous Films for Robust, Light-Induced Water Oxidation. *Chemistry of Materials*, **2015**, 27, 5886-5891 9.6 59
- 157 Ultrafast excited-state dynamics in vitamin B12 and related cob(III)alamins. *Journal of the American Chemical Society*, **2006**, 128, 801-8 16.4 59
- 156 Water splitting with polyoxometalate-treated photoanodes: enhancing performance through sensitizer design. *Chemical Science*, **2015**, 6, 5531-5543 9.4 58
- 155 Interfacial charge separation and recombination in InP and quasi-type II InP/CdS core/shell quantum dot-molecular acceptor complexes. *Journal of Physical Chemistry A*, **2013**, 117, 7561-70 2.8 58
- 154 PbS/CdS Core-Shell Quantum Dots Suppress Charge Transfer and Enhance Triplet Transfer. *Angewandte Chemie - International Edition*, **2017**, 56, 16583-16587 16.4 56
- 153 Effect of Insulating Oxide Overlayers on Electron Injection Dynamics in Dye-Sensitized Nanocrystalline Thin Films. *Journal of Physical Chemistry C*, **2007**, 111, 8979-8987 3.8 56
- 152 Size-Independent Exciton Localization Efficiency in Colloidal CdSe/CdS Core/Crown Nanosheet Type-I Heterostructures. *ACS Nano*, **2016**, 10, 3843-51 16.7 54

151	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
150	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
149	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
148	Ultrafast Charge Separation in Two-Dimensional CsPbBr Perovskite Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 566-573	6.4	51
147	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
146	Hole transfer from single quantum dots. <i>ACS Nano</i> , 2011 , 5, 8750-9	16.7	50
145	Insights into photoinduced electron transfer between [Ru(bpy)(3)](2+) and [S(2)O(8)](2-) in water: computational and experimental studies. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 73-80	2.8	47
144	Ultrafast photoinduced charge separation dynamics in polythiophene/SnO2 nanocomposites. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25496-503	3.4	47
143	Synthesis, structures, and photochemistry of tricarbonyl metal polyoxoanion complexes, [X2W20O70{M(CO)3}2]12[X = Sb, Bi and M = Re, Mn]. <i>Inorganic Chemistry</i> , 2013 , 52, 671-8	5.1	46
142	Comparison of electron injection dynamics from re-bipyridyl complexes to TiO2 nanocrystalline thin films in different solvent environments. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6903-12	3.4	46
141	Light-Driven, Quantum Dot-Mediated Regeneration of FMN To Drive Reduction of Ketoisophorone by Old Yellow Enzyme. <i>ACS Catalysis</i> , 2012 , 2, 667-670	13.1	43
140	. <i>IEEE Journal of Quantum Electronics</i> , 1989 , 25, 144-146	2	43
139	Efficient Hot Electron Transfer from Small Au Nanoparticles. <i>Nano Letters</i> , 2020 , 20, 4322-4329	11.5	42
138	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
137	Comparison of Electron Injection Dynamics from Rhodamine B to In2O3, SnO2, and ZnO Nanocrystalline Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5203-5212	3.8	42
136	Sub-Picosecond IR Study of the Reactive Intermediate in an Alkane C-H Bond Activation Reaction by CpRh(CO)2. <i>Organometallics</i> , 1998 , 17, 3417-3419	3.8	42
135	Femtosecond infrared spectroscopy: ultrafast photochemistry of iron carbonyls in solution. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 574-578		42
134	Quasi-type II CuInS/CdS core/shell quantum dots. <i>Chemical Science</i> , 2016 , 7, 1238-1244	9.4	40

133	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
132	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
131	Correlated Single Quantum Dot Blinking and Interfacial Electron Transfer Dynamics. <i>Chemical Science</i> , 2010 , 1, 519-526	9.4	39
130	Ultrafast Dynamics of Cp*M(CO) ₂ (M = Ir, Rh) in Solution: The Origin of the Low Quantum Yields for C≡C Bond Activation. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2069-2072	16.4	39
129	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
128	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
127	Hot-Electron-Assisted Femtosecond All-Optical Modulation in Plasmonics. <i>Advanced Materials</i> , 2018 , 30, 1704915	24	37
126	Self-Assembly of an Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16274-16282	16.4	37
125	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13067-13071	16.4	37
124	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. <i>Nano Letters</i> , 2018 , 18, 5544-5551	11.5	37
123	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
122	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
121	[[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
120	Spectroscopic Studies of Light-driven Water Oxidation Catalyzed by Polyoxometalates. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11850-11859	3.9	36
119	Polyoxometalates in the Design of Effective and Tunable Water Oxidation Catalysts. <i>Israel Journal of Chemistry</i> , 2011 , 51, 238-246	3.4	36
118	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
117	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
116	Heterogenized Molecular Catalysts: Vibrational Sum-Frequency Spectroscopic, Electrochemical, and Theoretical Investigations. <i>Accounts of Chemical Research</i> , 2019 , 52, 1289-1300	24.3	34

115	Anthracene Diphosphate Ligands for CdSe Quantum Dots; Molecular Design for Efficient Upconversion. <i>Chemistry of Materials</i> , 2020 , 32, 1461-1466	9.6	34
114	Ultrafast Electron Transfer from Ru Polypyridyl Complexes to Nb ₂ O ₅ Nanoporous Thin Films. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12795-12803	3.4	34
113	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
112	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
111	Synthesis and photoelectrochemical properties of ruthenium bisterpyridine sensitizers functionalized with a thienyl phosphonic acid moiety. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 192, 56-65	4.7	32
110	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
109	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
108	Synthesis, structure, and characterization of two polyoxometalate-photosensitizer hybrid materials. <i>Inorganica Chimica Acta</i> , 2010 , 363, 4381-4386	2.7	31
107	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
106	Ultrafast electron transfer between molecule adsorbate and antimony doped tin oxide (ATO) nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7095-102	3.4	30
105	Direct Observation of a Picosecond Alkane C-H Bond Activation Reaction at Iridium. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12870-12871	16.4	30
104	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
103	Enhancing photo-reduction quantum efficiency using quasi-type II core/shell quantum dots. <i>Chemical Science</i> , 2016 , 7, 4125-4133	9.4	29
102	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
101	Insights into photoinduced electron transfer between [Ru(mptpy) ₂] ⁴⁺ (mptpy = 4-(4-methylpyridinio)-2,2',6',2''-terpyridine) and [S ₂ O ₈] ²⁻ : computational and experimental studies. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6284-97	2.8	27
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