

Gregory D Scholes

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260
papers

19,380
citations

67
h-index

135
g-index

415
ext. papers

21,833
ext. citations

9.1
avg, IF

7.41
L-index

#	Paper	IF	Citations
260	Lessons from nature about solar light harvesting. <i>Nature Chemistry</i> , 2011 , 3, 763-74	17.6	1293
259	Coherently wired light-harvesting in photosynthetic marine algae at ambient temperature. <i>Nature</i> , 2010 , 463, 644-7	50.4	1233
258	Excitons in nanoscale systems. <i>Nature Materials</i> , 2006 , 5, 683-96	27	981
257	Long-range resonance energy transfer in molecular systems. <i>Annual Review of Physical Chemistry</i> , 2003 , 54, 57-87	15.7	957
256	Efficient perovskite light-emitting diodes featuring nanometre-sized crystallites. <i>Nature Photonics</i> , 2017 , 11, 108-115	33.9	949
255	Coherent intrachain energy migration in a conjugated polymer at room temperature. <i>Science</i> , 2009 , 323, 369-73	33.3	657
254	Calculation of Couplings and Energy-Transfer Pathways between the Pigments of LH2 by the ab Initio Transition Density Cube Method. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5378-5386	3.4	584
253	Light Absorption and Energy Transfer in the Antenna Complexes of Photosynthetic Organisms. <i>Chemical Reviews</i> , 2017 , 117, 249-293	68.1	549
252	On the Mechanism of Light Harvesting in Photosynthetic Purple Bacteria: B800 to B850 Energy Transfer. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1854-1868	3.4	385
251	Beyond Förster resonance energy transfer in biological and nanoscale systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6583-99	3.4	370
250	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017 , 543, 647-656	50.4	367
249	Coherence in energy transfer and photosynthesis. <i>Annual Review of Physical Chemistry</i> , 2015 , 66, 69-96	15.7	271
248	Electronic Energy Transfer in Condensed Phase Studied by a Polarizable QM/MM Model. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 1838-48	6.4	223
247	Electronic Energy Transfer and Quantum-Coherence in π -Conjugated Polymers. <i>Chemistry of Materials</i> , 2011 , 23, 610-620	9.6	212
246	Adapting the Förster Theory of Energy Transfer for Modeling Dynamics in Aggregated Molecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1640-1651	3.4	208
245	Controlling the Optical Properties of Inorganic Nanoparticles. <i>Advanced Functional Materials</i> , 2008 , 18, 1157-1172	15.6	204
244	Structure-Tuned Lead Halide Perovskite Nanocrystals. <i>Advanced Materials</i> , 2016 , 28, 566-73	24	196

243	Photovoltaic concepts inspired by coherence effects in photosynthetic systems. <i>Nature Materials</i> , 2016 , 16, 35-44	27	191
242	Rate expressions for excitation transfer. II. Electronic considerations of direct and through-configuration exciton resonance interactions. <i>Journal of Chemical Physics</i> , 1994 , 101, 10521-10525	3.9	191
241	Quantum-Coherent Electronic Energy Transfer: Did Nature Think of It First?. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2-8	6.4	188
240	Photosynthetic light harvesting: excitons and coherence. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130901	4.1	180
239	Comparison of Electronic and Vibrational Coherence Measured by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1904-1911	6.4	170
238	The Fundamental role of quantized vibrations in coherent light harvesting by cryptophyte algae. <i>Journal of Chemical Physics</i> , 2012 , 137, 174109	3.9	166
237	Energy transfer from Förster-Dexter theory to quantum coherent light-harvesting. <i>International Reviews in Physical Chemistry</i> , 2011 , 30, 49-77	7	165
236	Exciton delocalization drives rapid singlet fission in nanoparticles of acene derivatives. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6790-803	16.4	163
235	Highly Efficient Warm White Organic Light-Emitting Diodes by Triplet Exciton Conversion. <i>Advanced Functional Materials</i> , 2013 , 23, 705-712	15.6	154
234	How solvent controls electronic energy transfer and light harvesting. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6978-82	3.4	150
233	Quantitative investigations of quantum coherence for a light-harvesting protein at conditions simulating photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4857-74	3.6	149
232	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2370-5	6.4	145
231	Long-Lived Charge-Transfer States of Nickel(II) Aryl Halide Complexes Facilitate Bimolecular Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3035-3039	16.4	134
230	Photoexcitation of flavoenzymes enables a stereoselective radical cyclization. <i>Science</i> , 2019 , 364, 1166-1169	11.69	131
229	Conformational disorder and ultrafast exciton relaxation in PPV-family conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 656-67	3.4	130
228	In Situ Preparation of Metal Halide Perovskite Nanocrystal Thin Films for Improved Light-Emitting Devices. <i>ACS Nano</i> , 2017 , 11, 3957-3964	16.7	128
227	A Water-Soluble pH-Responsive Molecular Brush of Poly(N,N-dimethylaminoethyl methacrylate) Grafted Polythiophene. <i>Macromolecules</i> , 2008 , 41, 6993-7002	5.5	127
226	Rate expressions for excitation transfer. III. An ab initio study of electronic factors in excitation transfer and exciton resonance interactions. <i>Journal of Chemical Physics</i> , 1995 , 102, 9574-9581	3.9	126

225	Broadband 2D electronic spectroscopy reveals a carotenoid dark state in purple bacteria. <i>Science</i> , 2013 , 340, 52-6	33.3	124
224	Pitfalls and limitations in the practical use of Förster's theory of resonance energy transfer. <i>Photochemical and Photobiological Sciences</i> , 2008 , 7, 1444-8	4.2	124
223	Mixed-Halide Perovskites with Stabilized Bandgaps. <i>Nano Letters</i> , 2017 , 17, 6863-6869	11.5	121
222	Tuning Singlet Fission in Bridge-Chromophores. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12488-12494	16.4	115
221	Insights into excitons confined to nanoscale systems: electron-hole interaction, binding energy, and photodissociation. <i>ACS Nano</i> , 2008 , 2, 523-37	16.7	114
220	Charge Separation and Recombination in CdTe/CdSe Core/Shell Nanocrystals as a Function of Shell Coverage: Probing the Onset of the Quasi Type-II Regime. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2530-2535	6.4	113
219	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymer-fullerene blends. <i>Nature Communications</i> , 2014 , 5, 4933	17.4	110
218	Photosynthetic light-harvesting is tuned by the heterogeneous polarizable environment of the protein. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3078-84	16.4	110
217	Electronic and vibrational coherences in resonance energy transfer along MEH-PPV chains at room temperature. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4223-41	2.8	104
216	Charge Photogeneration in Neat Conjugated Polymers. <i>Chemistry of Materials</i> , 2014 , 26, 561-575	9.6	103
215	How solvent controls electronic energy transfer and light harvesting: toward a quantum-mechanical description of reaction field and screening effects. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13253-65	3.4	102
214	Solar light harvesting by energy transfer: from ecology to coherence. <i>Energy and Environmental Science</i> , 2012 , 5, 9374	35.4	99
213	Developing a structure-function model for the cryptophyte phycoerythrin 545 using ultrahigh resolution crystallography and ultrafast laser spectroscopy. <i>Journal of Molecular Biology</i> , 2004 , 344, 135-53	6.5	98
212	Examining Förster Energy Transfer for Semiconductor Nanocrystalline Quantum Dot Donors and Acceptors. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13336-13341	3.8	97
211	Electronic coherence lineshapes reveal hidden excitonic correlations in photosynthetic light harvesting. <i>Nature Chemistry</i> , 2012 , 4, 396-404	17.6	94
210	Two-dimensional electronic double-quantum coherence spectroscopy. <i>Accounts of Chemical Research</i> , 2009 , 42, 1375-84	24.3	93
209	Vibronic Enhancement of Algae Light Harvesting. <i>CheM</i> , 2016 , 1, 858-872	16.2	93
208	On the use of time-resolved photoluminescence as a probe of nanocrystal photoexcitation dynamics. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3533		91

207	Water-Soluble CdSe Quantum Dots Passivated by a Multidentate Diblock Copolymer. <i>Macromolecules</i> , 2007 , 40, 6377-6384	5.5	90
206	Correlated Pair States Formed by Singlet Fission and Exciton-Exciton Annihilation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12699-705	2.8	89
205	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , 2020 , 4, 490-504	34.6	87
204	Exciton superposition states in CdSe nanocrystals measured using broadband two-dimensional electronic spectroscopy. <i>Nano Letters</i> , 2012 , 12, 880-6	11.5	84
203	d-d Excited States of Ni(II) Complexes Relevant to Photoredox Catalysis: Spectroscopic Identification and Mechanistic Implications. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5800-5810	16.4	79
202	Room-temperature exciton coherence and dephasing in two-dimensional nanostructures. <i>Nature Communications</i> , 2015 , 6, 6086	17.4	76
201	Exciton Trapping and Recombination in Type II CdSe/CdTe Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5423-5431	3.8	75
200	The photophysics of cryptophyte light-harvesting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 184, 1-17	4.7	75
199	Exciton Bath coupling and inhomogeneous broadening in the optical spectroscopy of semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2003 , 118, 9380-9388	3.9	75
198	Delayed fluorescence from a zirconium(IV) photosensitizer with ligand-to-metal charge-transfer excited states. <i>Nature Chemistry</i> , 2020 , 12, 345-352	17.6	72
197	Exciton fine structure and spin relaxation in semiconductor colloidal quantum dots. <i>Accounts of Chemical Research</i> , 2009 , 42, 1037-46	24.3	72
196	Probing Solvation and Reaction Coordinates of Ultrafast Photoinduced Electron-Transfer Reactions Using Nonlinear Spectroscopies: Rhodamine 6G in Electron-Donating Solvents. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 10348-10358	2.8	70
195	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. <i>Chemical Science</i> , 2018 , 9, 6240-6259	9.4	70
194	Through-Bond and Through-Space Coupling in Photoinduced Electron and Energy Transfer: An ab Initio and Semiempirical Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10912-10918		69
193	Coherent wavepackets in the Fenna-Matthews-Olson complex are robust to excitonic-structure perturbations caused by mutagenesis. <i>Nature Chemistry</i> , 2018 , 10, 177-183	17.6	67
192	Asymmetric redox-neutral radical cyclization catalysed by flavin-dependent 'ene'-reductases. <i>Nature Chemistry</i> , 2020 , 12, 71-75	17.6	67
191	Coherent oscillations in the PC577 cryptophyte antenna occur in the excited electronic state. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1296-308	3.4	65
190	Dynamic Exchange During Triplet Transport in Nanocrystalline TIPS-Pentacene Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16069-16080	16.4	63

189	Dark States in the Light-Harvesting complex 2 Revealed by Two-dimensional Electronic Spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 20834	4.9	62
188	Crossing disciplines - A view on two-dimensional optical spectroscopy. <i>Annalen Der Physik</i> , 2014 , 526, 31-49	2.6	62
187	Rate expressions for excitation transfer I. Radiationless transition theory perspective. <i>Journal of Chemical Physics</i> , 1994 , 101, 1251-1261	3.9	62
186	Transient Absorption Spectroscopy Offers Mechanistic Insights for an Iridium/Nickel-Catalyzed C-O Coupling. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4555-4559	16.4	60
185	Exciton spin relaxation in quantum dots measured using ultrafast transient polarization grating spectroscopy. <i>Physical Review B</i> , 2006 , 73,	3.3	60
184	Mechanistic Analysis of Metallaphotoredox C-N Coupling: Photocatalysis Initiates and Perpetuates Ni(I)/Ni(III) Coupling Activity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15830-15841	16.4	59
183	Coherent Energy Transfer under Incoherent Light Conditions. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3136-42	6.4	57
182	Configuration interaction and the theory of electronic factors in energy transfer and molecular exciton interactions. <i>Journal of Chemical Physics</i> , 1996 , 104, 5054-5061	3.9	57
181	Engineering Perovskite Nanocrystal Surface Termination for Light-Emitting Diodes with External Quantum Efficiency Exceeding 15%. <i>Advanced Functional Materials</i> , 2019 , 29, 1807284	15.6	55
180	Excitation dynamics in Phycoerythrin 545: modeling of steady-state spectra and transient absorption with modified Redfield theory. <i>Biophysical Journal</i> , 2010 , 99, 344-52	2.9	55
179	From Fundamental Theories to Quantum Coherences in Electron Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 708-722	16.4	55
178	Direct Observation of Correlated Triplet Pair Dynamics during Singlet Fission Using Ultrafast Mid-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2012-2022	3.8	54
177	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020 , 5, 828-846	73.3	54
176	Influence of Bulky Organo-Ammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2018 , 28, 1802060	15.6	53
175	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 419-426	6.4	53
174	Ultrafast light harvesting dynamics in the cryptophyte phycocyanin 645. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 964-75	4.2	51
173	Loading quantum dots into thermo-responsive microgels by reversible transfer from organic solvents to water. <i>Journal of Materials Chemistry</i> , 2008 , 18, 763		50
172	Single-residue insertion switches the quaternary structure and exciton states of cryptophyte light-harvesting proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2666-75	11.5	49

171	Relaxation in the Exciton Fine Structure of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 795-811	3.8	48
170	Local protein solvation drives direct down-conversion in phycobiliprotein PC645 via incoherent vibronic transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3342-E3350	11.5	47
169	Triplet Energy Transfer Governs the Dissociation of the Correlated Triplet Pair in Exothermic Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4087-4095	6.4	47
168	Selection rules for probing biexcitons and electron spin transitions in isotropic quantum dot ensembles. <i>Journal of Chemical Physics</i> , 2004 , 121, 10104-10	3.9	47
167	Enhanced sub-bandgap efficiency of a solid-state organic intermediate band solar cell using triplet-triplet annihilation. <i>Energy and Environmental Science</i> , 2017 , 10, 1465-1475	35.4	46
166	The separation of vibrational coherence from ground- and excited-electronic states in P3HT film. <i>Journal of Chemical Physics</i> , 2015 , 142, 212410	3.9	46
165	Carbene-Metal-Amide Bond Deformation, Rather Than Ligand Rotation, Drives Delayed Fluorescence. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1620-1626	6.4	46
164	How energy funnels from the phycoerythrin antenna complex to photosystem I and photosystem II in cryptophyte <i>Rhodomonas CS24</i> cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25066-73	3.4	45
163	Solution-processable, crystalline material for quantitative singlet fission. <i>Materials Horizons</i> , 2017 , 4, 915-923	14.4	44
162	Measures and implications of electronic coherence in photosynthetic light-harvesting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 3728-49	3	44
161	Energy flow in the cryptophyte PE545 antenna is directed by bilin pigment conformation. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4263-73	3.4	43
160	Nanocrystal shape and the mechanism of exciton spin relaxation. <i>Nano Letters</i> , 2006 , 6, 1765-71	11.5	43
159	Broadband Transient Absorption and Two-Dimensional Electronic Spectroscopy of Methylene Blue. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9098-108	2.8	42
158	Methylene Blue Exciton States Steer Nonradiative Relaxation: Ultrafast Spectroscopy of Methylene Blue Dimer. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 440-54	3.4	42
157	Spectroscopic Studies of Cryptophyte Light Harvesting Proteins: Vibrations and Coherent Oscillations. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10025-34	3.4	41
156	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. <i>Journal of Chemical Physics</i> , 2016 , 144, 175102	3.9	40
155	Coherence Spectroscopy in the Condensed Phase: Insights into Molecular Structure, Environment, and Interactions. <i>Accounts of Chemical Research</i> , 2017 , 50, 2746-2755	24.3	39
154	Ultrafast relaxation of charge-transfer excitons in low-bandgap conjugated copolymers. <i>Chemical Science</i> , 2012 , 3, 2270	9.4	39

153	Biexcitonic fine structure of CdSe nanocrystals probed by polarization-dependent two-dimensional photon echo spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3797-806	2.8	39
152	Broad-Band Pump-Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4722-4731	6.4	38
151	Slow Intramolecular Vibrational Relaxation Leads to Long-Lived Excited-State Wavepackets. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6792-9	2.8	38
150	Two-Dimensional Electronic Spectroscopy Reveals Ultrafast Downhill Energy Transfer in Photosystem I Trimers of the Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3677-84	6.4	37
149	Intramolecular radiationless transitions dominate exciton relaxation dynamics. <i>Chemical Physics Letters</i> , 2014 , 599, 23-33	2.5	36
148	Flow of excitation energy in the cryptophyte light-harvesting antenna phycocyanin 645. <i>Biophysical Journal</i> , 2011 , 101, 1004-13	2.9	36
147	On the rate of radiationless intermolecular energy transfer. <i>Journal of Chemical Physics</i> , 1992 , 97, 7405-7413	3.1	36
146	From coherent to vibronic light harvesting in photosynthesis. <i>Current Opinion in Chemical Biology</i> , 2018 , 47, 39-46	9.7	33
145	Two-Dimensional Visible Spectroscopy For Studying Colloidal Semiconductor Nanocrystals. <i>Small</i> , 2016 , 12, 2234-44	11	33
144	Polariton Transitions in Femtosecond Transient Absorption Studies of Ultrastrong Light-Molecule Coupling. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2667-2674	6.4	31
143	A Little Coherence in Photosynthetic Light Harvesting. <i>BioScience</i> , 2014 , 64, 14-25	5.7	31
142	Mechanism and origin of exciton spin relaxation in CdSe nanorods. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25371-82	3.4	31
141	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3895-3901	6.4	30
140	Perspective: Detecting and measuring exciton delocalization in photosynthetic light harvesting. <i>Journal of Chemical Physics</i> , 2014 , 140, 110901	3.9	30
139	Rate expressions for excitation transfer. IV. Energy migration and superexchange phenomena. <i>Journal of Chemical Physics</i> , 1995 , 103, 8873-8883	3.9	30
138	Manganese-Based Catalysts with Varying Ligand Substituents for the Electrochemical Reduction of CO ₂ to CO. <i>Organometallics</i> , 2019 , 38, 1292-1299	3.8	30
137	The Nature of Excimer Formation in Crystalline Pyrene Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21004-21017	3.8	30
136	DNA-Templated Aggregates of Strongly Coupled Cyanine Dyes: Nonradiative Decay Governs Exciton Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2386-2392	6.4	28

135	Adding Amorphous Content to Highly Crystalline Polymer Nanowire Solar Cells Increases Performance. <i>Advanced Materials</i> , 2015 , 27, 3484-91	24	28
134	Mediation of ultrafast light-harvesting by a central dimer in phycoerythrin 545 studied by transient absorption and global analysis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14219-26	3.4	28
133	Ultrafast exciton dynamics in 2D in-plane hetero-nanostructures: delocalization and charge transfer. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8373-8379	3.6	27
132	Observing Vibrational Wavepackets during an Ultrafast Electron Transfer Reaction. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11837-46	2.8	26
131	Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2213		26
130	Exploring Ultrafast Electronic Processes of Quasi-Type II Nanocrystals by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16255-16263	3.8	25
129	Photophysical characterization and time-resolved spectroscopy of a anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23162-23175	3.6	25
128	Acoustic phonon strain induced mixing of the fine structure levels in colloidal CdSe quantum dots observed by a polarization grating technique. <i>Journal of Chemical Physics</i> , 2010 , 132, 104506	3.9	25
127	Electronic interactions in rigidly linked naphthalene dimers. <i>Chemical Physics Letters</i> , 1998 , 292, 601-606	2.5	25
126	Delocalization-enhanced long-range energy transfer between cryptophyte algae PE545 antenna proteins. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5243-53	3.4	24
125	Measurement of electron-electron interactions and correlations using two-dimensional electronic double-quantum coherence spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12122-33	2.8	23
124	Quaternary Charge-Transfer Complex Enables Photoenzymatic Intermolecular Hydroalkylation of Olefins. <i>Journal of the American Chemical Society</i> , 2021 , 143, 97-102	16.4	23
123	Entropy Reorders Polariton States. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6389-6395	6.4	23
122	Coherence from Light Harvesting to Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1568-1572	6.4	22
121	Two-dimensional electronic spectroscopy for mapping molecular photophysics. <i>Pure and Applied Chemistry</i> , 2013 , 85, 1307-1319	2.1	22
120	Dinitrogen Coupling to a Terpyridine-Molybdenum Chromophore Is Switched on by Fermi Resonance. <i>CheM</i> , 2019 , 5, 402-416	16.2	22
119	Charge Localization after Ultrafast Photoexcitation of a Rigid Perylene Perylenediimide Dyad Visualized by Transient Stark Effect. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5530-5537	16.4	21
118	Site-selective tyrosine bioconjugation via photoredox catalysis for native-to-bioorthogonal protein transformation. <i>Nature Chemistry</i> , 2021 , 13, 902-908	17.6	21

117	Interplay of vibrational wavepackets during an ultrafast electron transfer reaction. <i>Nature Chemistry</i> , 2021 , 13, 70-76	17.6	19
116	Carotenoid Nuclear Reorganization and Interplay of Bright and Dark Excited States. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8628-8643	3.4	18
115	Reduced Recombination and Capacitor-like Charge Buildup in an Organic Heterojunction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2562-2571	16.4	18
114	Limits of exciton delocalization in molecular aggregates. <i>Faraday Discussions</i> , 2019 , 221, 265-280	3.6	18
113	Thermal light cannot be represented as a statistical mixture of single pulses. <i>Physical Review Letters</i> , 2015 , 114, 213601	7.4	17
112	Quantum dynamics of a molecular emitter strongly coupled with surface plasmon polaritons: A macroscopic quantum electrodynamics approach. <i>Journal of Chemical Physics</i> , 2019 , 151, 014105	3.9	17
111	Interaction between excitons determines the non-linear response of nanocrystals. <i>Chemical Physics</i> , 2008 , 350, 56-68	2.3	17
110	Surface passivation in CdSe nanocrystal/polymer films revealed by ultrafast excitation relaxation dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 1986-1993	1.3	17
109	Solution-processed inorganic perovskite crystals as achromatic quarter-wave plates. <i>Nature Photonics</i> , 2021 , 15, 813-816	33.9	17
108	Photoenzymatic Reductions Enabled by Direct Excitation of Flavin-Dependent "Ene"-Reductases. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1735-1739	16.4	16
107	Method of developing analytical multipartite delocalization measures for mixed W-like states. <i>Physical Review A</i> , 2014 , 90,	2.6	15
106	Preparation and photo/chemical-activation of wormlike network micelles of core-shell quantum dots and block copolymer hybrids. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9692		15
105	Generalization of the hierarchical equations of motion theory for efficient calculations with arbitrary correlation functions. <i>Journal of Chemical Physics</i> , 2020 , 152, 204101	3.9	15
104	Overlap-Driven Splitting of Triplet Pairs in Singlet Fission. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20040-20047	16.4	15
103	Polaritons and excitons: Hamiltonian design for enhanced coherence. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200278	2.4	15
102	Visible-Light-Enhanced Cobalt-Catalyzed Hydrogenation: Switchable Catalysis Enabled by Divergence between Thermal and Photochemical Pathways. <i>ACS Catalysis</i> , 2021 , 11, 1351-1360	13.1	15
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