Gregory D Scholes

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Lessons from nature about solar light harvesting. Nature Chemistry, 2011, 3, 763-774.	6.6	1,556
2	Coherently wired light-harvesting in photosynthetic marine algae at ambient temperature. Nature, 2010, 463, 644-647.	13.7	1,392
3	Efficient perovskite light-emitting diodes featuring nanometre-sized crystallites. Nature Photonics, 2017, 11, 108-115.	15.6	1,175
4	Excitons in nanoscale systems. Nature Materials, 2006, 5, 683-696.	13.3	1,096
5	LONG-RANGERESONANCEENERGYTRANSFER INMOLECULARSYSTEMS. Annual Review of Physical Chemistry, 2003, 54, 57-87.	4.8	1,063
6	Light Absorption and Energy Transfer in the Antenna Complexes of Photosynthetic Organisms. Chemical Reviews, 2017, 117, 249-293.	23.0	802
7	Coherent Intrachain Energy Migration in a Conjugated Polymer at Room Temperature. Science, 2009, 323, 369-373.	6.0	705
8	Calculation of Couplings and Energy-Transfer Pathways between the Pigments of LH2 by the ab Initio Transition Density Cube Method. Journal of Physical Chemistry B, 1998, 102, 5378-5386.	1.2	653
9	Using coherence to enhance function in chemical and biophysical systems. Nature, 2017, 543, 647-656.	13.7	477
10	On the Mechanism of Light Harvesting in Photosynthetic Purple Bacteria:â€‰ B800 to B850 Energy Transfer. Journal of Physical Chemistry B, 2000, 104, 1854-1868.	1.2	427
11	Beyond FÃ¶rster Resonance Energy Transfer in Biological and Nanoscale Systems. Journal of Physical Chemistry B, 2009, 113, 6583-6599.	1.2	404
12	Coherence in Energy Transfer and Photosynthesis. Annual Review of Physical Chemistry, 2015, 66, 69-96.	4.8	327
13	Electronic Energy Transfer in Condensed Phase Studied by a Polarizable QM/MM Model. Journal of Chemical Theory and Computation, 2009, 5, 1838-1848.	2.3	259
14	Photoexcitation of flavoenzymes enables a stereoselective radical cyclization. Science, 2019, 364, 1166-1169.	6.0	256
15	Exploiting chemistry and molecular systems for quantum information science. Nature Reviews Chemistry, 2020, 4, 490-504.	13.8	247
16	Photovoltaic concepts inspired by coherence effects in photosynthetic systems. Nature Materials, 2017, 16, 35-44.	13.3	243
17	Electronic Energy Transfer and Quantum-Coherence in Ï€-Conjugated Polymers. Chemistry of Materials, 2011, 23, 610-620.	3.2	225
18	Photosynthetic light harvesting: excitons and coherence. Journal of the Royal Society Interface, 2014, 11, 20130901.	1.5	225

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19	Adapting the FÃ¶rster Theory of Energy Transfer for Modeling Dynamics in Aggregated Molecular Assemblies. Journal of Physical Chemistry B, 2001, 105, 1640-1651.	1.2	222
20	Controlling the Optical Properties of Inorganic Nanoparticles. Advanced Functional Materials, 2008, 18, 1157-1172.	7.8	221
21	Long-Lived Charge-Transfer States of Nickel(II) Aryl Halide Complexes Facilitate Bimolecular Photoinduced Electron Transfer. Journal of the American Chemical Society, 2018, 140, 3035-3039.	6.6	219
22	Quantum-Coherent Electronic Energy Transfer: Did Nature Think of It First?. Journal of Physical Chemistry Letters, 2010, 1, 2-8.	2.1	215
23	Structureâ€Tuned Lead Halide Perovskite Nanocrystals. Advanced Materials, 2016, 28, 566-573.	11.1	215
24	Rate expressions for excitation transfer. II. Electronic considerations of direct and throughâ€“configuration exciton resonance interactions. Journal of Chemical Physics, 1994, 101, 10521-10525.	1.2	208
25	Exciton Delocalization Drives Rapid Singlet Fission in Nanoparticles of Acene Derivatives. Journal of the American Chemical Society, 2015, 137, 6790-6803.	6.6	195
26	Energy transfer from FÃ¶rsterâ€“Dexter theory to quantum coherent light-harvesting. International Reviews in Physical Chemistry, 2011, 30, 49-77.	0.9	188
27	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. Journal of Physical Chemistry Letters, 2016, 7, 2370-2375.	2.1	186
28	The fundamental role of quantized vibrations in coherent light harvesting by cryptophyte algae. Journal of Chemical Physics, 2012, 137, 174109.	1.2	184
29	Comparison of Electronic and Vibrational Coherence Measured by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2011, 2, 1904-1911.	2.1	181
30	Highly Efficient Warm White Organic Lightâ€Emitting Diodes by Triplet Exciton Conversion. Advanced Functional Materials, 2013, 23, 705-712.	7.8	168
31	³d-d Excited States of Ni(II) Complexes Relevant to Photoredox Catalysis: Spectroscopic Identification and Mechanistic Implications. Journal of the American Chemical Society, 2020, 142, 5800-5810.	6.6	168
32	How Solvent Controls Electronic Energy Transfer and Light Harvesting. Journal of Physical Chemistry B, 2007, 111, 6978-6982.	1.2	167
33	Mixed-Halide Perovskites with Stabilized Bandgaps. Nano Letters, 2017, 17, 6863-6869.	4.5	165
34	Mechanistic Analysis of Metallaphotoredox Câ€“N Coupling: Photocatalysis Initiates and Perpetuates Ni(I)/Ni(III) Coupling Activity. Journal of the American Chemical Society, 2020, 142, 15830-15841.	6.6	162
35	Quantitative investigations of quantum coherence for a light-harvesting protein at conditions simulating photosynthesis. Physical Chemistry Chemical Physics, 2012, 14, 4857.	1.3	158
36	<i>In Situ</i> Preparation of Metal Halide Perovskite Nanocrystal Thin Films for Improved Light-Emitting Devices. ACS Nano, 2017, 11, 3957-3964.	7.3	151

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37	Tuning Singlet Fission in Ï€-Bridge-Ï€ Chromophores. Journal of the American Chemical Society, 2017, 139, 12488-12494.	6.6	147
38	Delayed fluorescence from a zirconium(iv) photosensitizer with ligand-to-metal charge-transfer excited states. Nature Chemistry, 2020, 12, 345-352.	6.6	144
39	Conformational Disorder and Ultrafast Exciton Relaxation in PPV-family Conjugated Polymers. Journal of Physical Chemistry B, 2009, 113, 656-667.	1.2	143
40	Broadband 2D Electronic Spectroscopy Reveals a Carotenoid Dark State in Purple Bacteria. Science, 2013, 340, 52-56.	6.0	143
41	Pitfalls and limitations in the practical use of FÃ¶rsterâ€™s theory of resonance energy transfer. Photochemical and Photobiological Sciences, 2008, 7, 1444-1448.	1.6	141
42	A Water-Soluble pH-Responsive Molecular Brush of Poly(<i>N</i>,<i>N</i>-dimethylaminoethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.2	138
43	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	23.3	136
44	Rate expressions for excitation transfer. III. Anab initiostudy of electronic factors in excitation transfer and exciton resonance interactions. Journal of Chemical Physics, 1995, 102, 9574-9581.	1.2	131
45	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymerâ€“fullerene blends. Nature Communications, 2014, 5, 4933.	5.8	131
46	Photosynthetic Light-Harvesting Is Tuned by the Heterogeneous Polarizable Environment of the Protein. Journal of the American Chemical Society, 2011, 133, 3078-3084.	6.6	123
47	Asymmetric redox-neutral radical cyclization catalysed by flavin-dependent â€˜eneâ€™-reductases. Nature Chemistry, 2020, 12, 71-75.	6.6	123
48	Insights into Excitons Confined to Nanoscale Systems: Electronâ€“Hole Interaction, Binding Energy, and Photodissociation. ACS Nano, 2008, 2, 523-537.	7.3	121
49	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. Journal of Physical Chemistry Letters, 2010, 1, 2530-2535.	2.1	121
50	Charge Photogeneration in Neat Conjugated Polymers. Chemistry of Materials, 2014, 26, 561-575.	3.2	118
51	Developing a Structureâ€“Function Model for the Cryptophyte Phycoerythrin 545 Using Ultrahigh Resolution Crystallography and Ultrafast Laser Spectroscopy. Journal of Molecular Biology, 2004, 344, 135-153.	2.0	117
52	How Solvent Controls Electronic Energy Transfer and Light Harvesting:â€‰ Toward a Quantum-Mechanical Description of Reaction Field and Screening Effects. Journal of Physical Chemistry B, 2007, 111, 13253-13265.	1.2	117
53	Correlated Pair States Formed by Singlet Fission and Excitonâ€“Exciton Annihilation. Journal of Physical Chemistry A, 2015, 119, 12699-12705.	1.1	116
54	Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. Accounts of Chemical Research, 2009, 42, 1375-1384.	7.6	113

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55	Solar light harvesting by energy transfer: from ecology to coherence. Energy and Environmental Science, 2012, 5, 9374.	15.6	113
56	Electronic and Vibrational Coherences in Resonance Energy Transfer along MEH-PPV Chains at Room Temperature. Journal of Physical Chemistry A, 2009, 113, 4223-4241.	1.1	111
57	Electronic coherence lineshapes reveal hidden excitonic correlations in photosynthetic light harvesting. Nature Chemistry, 2012, 4, 396-404.	6.6	110
58	Transient Absorption Spectroscopy Offers Mechanistic Insights for an Iridium/Nickel-Catalyzed Câ€“O Coupling. Journal of the American Chemical Society, 2020, 142, 4555-4559.	6.6	110
59	Vibronic Enhancement of Algae Light Harvesting. CheM, 2016, 1, 858-872.	5.8	109
60	Examining FÃ¶rster Energy Transfer for Semiconductor Nanocrystalline Quantum Dot Donors and Acceptors. Journal of Physical Chemistry C, 2008, 112, 13336-13341.	1.5	104
61	On the use of time-resolved photoluminescence as a probe of nanocrystal photoexcitation dynamics. Journal of Materials Chemistry, 2010, 20, 3533.	6.7	103
62	Exciton Superposition States in CdSe Nanocrystals Measured Using Broadband Two-Dimensional Electronic Spectroscopy. Nano Letters, 2012, 12, 880-886.	4.5	102
63	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. Chemical Science, 2018, 9, 6240-6259.	3.7	97
64	Water-Soluble CdSe Quantum Dots Passivated by a Multidentate Diblock Copolymer. Macromolecules, 2007, 40, 6377-6384.	2.2	95
65	Room-temperature exciton coherence and dephasing in two-dimensional nanostructures. Nature Communications, 2015, 6, 6086.	5.8	94
66	Coherent wavepackets in the Fennaâ€“Matthewsâ€“Olson complex are robust to excitonic-structure perturbations caused by mutagenesis. Nature Chemistry, 2018, 10, 177-183.	6.6	93
67	The photophysics of cryptophyte light-harvesting. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 184, 1-17.	2.0	88
68	From Fundamental Theories to Quantum Coherences in Electron Transfer. Journal of the American Chemical Society, 2019, 141, 708-722.	6.6	85
69	Dynamic Exchange During Triplet Transport in Nanocrystalline TIPS-Pentacene Films. Journal of the American Chemical Society, 2016, 138, 16069-16080.	6.6	84
70	Quaternary Charge-Transfer Complex Enables Photoenzymatic Intermolecular Hydroalkylation of Olefins. Journal of the American Chemical Society, 2021, 143, 97-102.	6.6	84
71	Exciton Trapping and Recombination in Type II CdSe/CdTe Nanorod Heterostructures. Journal of Physical Chemistry C, 2008, 112, 5423-5431.	1.5	83
72	Coherent Oscillations in the PC577 Cryptophyte Antenna Occur in the Excited Electronic State. Journal of Physical Chemistry B, 2014, 118, 1296-1308.	1.2	83

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73	Probing Solvation and Reaction Coordinates of Ultrafast Photoinduced Electron-Transfer Reactions Using Nonlinear Spectroscopies:Â Rhodamine 6G in Electron-Donating Solventsâ€. Journal of Physical Chemistry A, 1999, 103, 10348-10358.	1.1	82
74	Exciton Fine Structure and Spin Relaxation in Semiconductor Colloidal Quantum Dots. Accounts of Chemical Research, 2009, 42, 1037-1046.	7.6	81
75	Engineering Perovskite Nanocrystal Surface Termination for Lightâ€Emitting Diodes with External Quantum Efficiency Exceeding 15%. Advanced Functional Materials, 2019, 29, 1807284.	7.8	80
76	Excitonâ€“bath coupling and inhomogeneous broadening in the optical spectroscopy of semiconductor quantum dots. Journal of Chemical Physics, 2003, 118, 9380-9388.	1.2	79
77	Through-Bond and Through-Space Coupling in Photoinduced Electron and Energy Transfer:Â AnAbInitioand Semiempirical Study. The Journal of Physical Chemistry, 1996, 100, 10912-10918.	2.9	77
78	Crossing disciplines â€• A view on twoâ€dimensional optical spectroscopy. Annalen Der Physik, 2014, 526, 31-49.	0.9	77
79	Influence of Bulky Organoâ€Ammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Lightâ€Emitting Devices. Advanced Functional Materials, 2018, 28, 1802060.	7.8	76
80	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 419-426.	2.1	74
81	Site-selective tyrosine bioconjugation via photoredox catalysis for native-to-bioorthogonal protein transformation. Nature Chemistry, 2021, 13, 902-908.	6.6	74
82	The Nature of Excimer Formation in Crystalline Pyrene Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 21004-21017.	1.5	71
83	Dark States in the Light-Harvesting complex 2 Revealed by Two-dimensional Electronic Spectroscopy. Scientific Reports, 2016, 6, 20834.	1.6	69
84	Excitation Dynamics in Phycoerythrin 545: Modeling of Steady-State Spectra and Transient Absorption with Modified Redfield Theory. Biophysical Journal, 2010, 99, 344-352.	0.2	67
85	Coherent Energy Transfer under Incoherent Light Conditions. Journal of Physical Chemistry Letters, 2012, 3, 3136-3142.	2.1	66
86	Rate expressions for excitation transfer I. Radiationless transition theory perspective. Journal of Chemical Physics, 1994, 101, 1251-1261.	1.2	65
87	Single-residue insertion switches the quaternary structure and exciton states of cryptophyte light-harvesting proteins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2666-75.	3.3	65
88	Solution-processed inorganic perovskite crystals as achromatic quarter-wave plates. Nature Photonics, 2021, 15, 813-816.	15.6	64
89	Exciton spin relaxation in quantum dots measured using ultrafast transient polarization grating spectroscopy. Physical Review B, 2006, 73, .	1.1	62
90	Ultrafast light harvesting dynamics in the cryptophyte phycocyanin 645. Photochemical and Photobiological Sciences, 2007, 6, 964-975.	1.6	62

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91	Direct Observation of Correlated Triplet Pair Dynamics during Singlet Fission Using Ultrafast Mid-IR Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 2012-2022.	1.5	62
92	Local protein solvation drives direct down-conversion in phycobiliprotein PC645 via incoherent vibronic transport. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3342-E3350.	3.3	61
93	Polariton Transitions in Femtosecond Transient Absorption Studies of Ultrastrong Lightâ€“Molecule Coupling. Journal of Physical Chemistry Letters, 2020, 11, 2667-2674.	2.1	60
94	Configuration interaction and the theory of electronic factors in energy transfer and molecular exciton interactions. Journal of Chemical Physics, 1996, 104, 5054-5061.	1.2	59
95	Methylene Blue Exciton States Steer Nonradiative Relaxation: Ultrafast Spectroscopy of Methylene Blue Dimer. Journal of Physical Chemistry B, 2016, 120, 440-454.	1.2	59
96	Slow Intramolecular Vibrational Relaxation Leads to Long-Lived Excited-State Wavepackets. Journal of Physical Chemistry A, 2016, 120, 6792-6799.	1.1	58
97	Triplet Energy Transfer Governs the Dissociation of the Correlated Triplet Pair in Exothermic Singlet Fission. Journal of Physical Chemistry Letters, 2018, 9, 4087-4095.	2.1	58
98	Carbeneâ€“Metalâ€“Amide Bond Deformation, Rather Than Ligand Rotation, Drives Delayed Fluorescence. Journal of Physical Chemistry Letters, 2018, 9, 1620-1626.	2.1	57
99	Solution-processable, crystalline material for quantitative singlet fission. Materials Horizons, 2017, 4, 915-923.	6.4	56
100	Broadband Transient Absorption and Two-Dimensional Electronic Spectroscopy of Methylene Blue. Journal of Physical Chemistry A, 2015, 119, 9098-9108.	1.1	55
101	Relaxation in the Exciton Fine Structure of Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 795-811.	1.5	54
102	Enhanced sub-bandgap efficiency of a solid-state organic intermediate band solar cell using tripletâ€“triplet annihilation. Energy and Environmental Science, 2017, 10, 1465-1475.	15.6	54
103	Selection rules for probing biexcitons and electron spin transitions in isotropic quantum dot ensembles. Journal of Chemical Physics, 2004, 121, 10104-10110.	1.2	52
104	How Energy Funnels from the Phycoerythrin Antenna Complex to Photosystem I and Photosystem II in CryptophyteRhodomonasCS24 Cells. Journal of Physical Chemistry B, 2006, 110, 25066-25073.	1.2	52
105	Loading quantum dots into thermo-responsive microgels by reversible transfer from organic solvents to water. Journal of Materials Chemistry, 2008, 18, 763.	6.7	52
106	Coherence Spectroscopy in the Condensed Phase: Insights into Molecular Structure, Environment, and Interactions. Accounts of Chemical Research, 2017, 50, 2746-2755.	7.6	52
107	The separation of vibrational coherence from ground- and excited-electronic states in P3HT film. Journal of Chemical Physics, 2015, 142, 212410.	1.2	51
108	Interplay of vibrational wavepackets during an ultrafast electron transfer reaction. Nature Chemistry, 2021, 13, 70-76.	6.6	51

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109	Spectroscopic Studies of Cryptophyte Light Harvesting Proteins: Vibrations and Coherent Oscillations. Journal of Physical Chemistry B, 2015, 119, 10025-10034.	1.2	50
110	Energy Flow in the Cryptophyte PE545 Antenna Is Directed by Bilin Pigment Conformation. Journal of Physical Chemistry B, 2013, 117, 4263-4273.	1.2	49
111	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. Journal of Chemical Physics, 2016, 144, 175102.	1.2	49
112	Broad-Band Pumpâ€"Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. Journal of Physical Chemistry Letters, 2016, 7, 4722-4731.	2.1	49
113	DNA-Templated Aggregates of Strongly Coupled Cyanine Dyes: Nonradiative Decay Governs Exciton Lifetimes. Journal of Physical Chemistry Letters, 2019, 10, 2386-2392.	2.1	49
114	Coherent Two-Dimensional and Broadband Electronic Spectroscopies. Chemical Reviews, 2022, 122, 4257-4321.	23.0	47
115	Biexcitonic Fine Structure of CdSe Nanocrystals Probed by Polarization-Dependent Two-Dimensional Photon Echo Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 3797-3806.	1.1	46
116	Measures and implications of electronic coherence in photosynthetic light-harvesting. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3728-3749.	1.6	46
117	Twoâ€Dimensional Visible Spectroscopy For Studying Colloidal Semiconductor Nanocrystals. Small, 2016, 12, 2234-2244.	5.2	46
118	Photoenzymatic Reductions Enabled by Direct Excitation of Flavin-Dependent â€œEneâ€•Reductases. Journal of the American Chemical Society, 2021, 143, 1735-1739.	6.6	46
119	Nanocrystal Shape and the Mechanism of Exciton Spin Relaxation. Nano Letters, 2006, 6, 1765-1771.	4.5	45
120	Ultrafast relaxation of charge-transfer excitons in low-bandgap conjugated copolymers. Chemical Science, 2012, 3, 2270.	3.7	44
121	Manganese-Based Catalysts with Varying Ligand Substituents for the Electrochemical Reduction of CO₂ to CO. Organometallics, 2019, 38, 1292-1299.	1.1	44
122	Entropy Reorders Polariton States. Journal of Physical Chemistry Letters, 2020, 11, 6389-6395.	2.1	42
123	Î¼Map-Red: Proximity Labeling by Red Light Photocatalysis. Journal of the American Chemical Society, 2022, 144, 6154-6162.	6.6	42
124	Flow of Excitation Energy in the Cryptophyte Light-Harvesting Antenna Phycocyanin 645. Biophysical Journal, 2011, 101, 1004-1013.	0.2	41
125	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2017, 8, 3895-3901.	2.1	41
126	From coherent to vibronic light harvesting in photosynthesis. Current Opinion in Chemical Biology, 2018, 47, 39-46.	2.8	40

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127	On the rate of radiationless intermolecular energy transfer. Journal of Chemical Physics, 1992, 97, 7405-7413.	1.2	39
128	Polaritons and excitons: Hamiltonian design for enhanced coherence. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200278.	1.0	39
129	Intramolecular radiationless transitions dominate exciton relaxation dynamics. Chemical Physics Letters, 2014, 599, 23-33.	1.2	38
130	Two-Dimensional Electronic Spectroscopy Reveals Ultrafast Downhill Energy Transfer in Photosystem I Trimers of the Cyanobacterium <i>Thermosynechococcus elongatus</i>. Journal of Physical Chemistry Letters, 2012, 3, 3677-3684.	2.1	37
131	Perspective: Detecting and measuring exciton delocalization in photosynthetic light harvesting. Journal of Chemical Physics, 2014, 140, 110901.	1.2	37
132	Generalization of the hierarchical equations of motion theory for efficient calculations with arbitrary correlation functions. Journal of Chemical Physics, 2020, 152, 204101.	1.2	36
133	Mechanism and Origin of Exciton Spin Relaxation in CdSe Nanorodsâ€. Journal of Physical Chemistry B, 2006, 110, 25371-25382.	1.2	34
134	A Little Coherence in Photosynthetic Light Harvesting. BioScience, 2014, 64, 14-25.	2.2	34
135	Visible-Light-Enhanced Cobalt-Catalyzed Hydrogenation: Switchable Catalysis Enabled by Divergence between Thermal and Photochemical Pathways. ACS Catalysis, 2021, 11, 1351-1360.	5.5	34
136	Engineering a Nonâ€Natural Photoenzyme for Improved Photon Efficiency**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
137	Rate expressions for excitation transfer. IV. Energy migration and superexchange phenomena. Journal of Chemical Physics, 1995, 103, 8873-8883.	1.2	33
138	Observing Vibrational Wavepackets during an Ultrafast Electron Transfer Reaction. Journal of Physical Chemistry A, 2015, 119, 11837-11846.	1.1	33
139	Charge Localization after Ultrafast Photoexcitation of a Rigid Perylene Perylenediimide Dyad Visualized by Transient Stark Effect. Journal of the American Chemical Society, 2017, 139, 5530-5537.	6.6	33
140	Quantum dynamics of a molecular emitter strongly coupled with surface plasmon polaritons: A macroscopic quantum electrodynamics approach. Journal of Chemical Physics, 2019, 151, 014105.	1.2	33
141	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. Nature Communications, 2021, 12, 1532.	5.8	33
142	Mediation of Ultrafast Light-Harvesting by a Central Dimer in Phycoerythrin 545 Studied by Transient Absorption and Global Analysis. Journal of Physical Chemistry B, 2005, 109, 14219-14226.	1.2	31
143	Ultrafast exciton dynamics in 2D in-plane hetero-nanostructures: delocalization and charge transfer. Physical Chemistry Chemical Physics, 2017, 19, 8373-8379.	1.3	31
144	Photophysical characterization and time-resolved spectroscopy of a anthradithiophene dimer: exploring the role of conformation in singlet fission. Physical Chemistry Chemical Physics, 2017, 19, 23162-23175.	1.3	31

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145	Coherence in photosynthesis. Nature Physics, 2011, 7, 448-449.	6.5	30
146	Adding Amorphous Content to Highly Crystalline Polymer Nanowire Solar Cells Increases Performance. Advanced Materials, 2015, 27, 3484-3491.	11.1	29
147	Limits of exciton delocalization in molecular aggregates. Faraday Discussions, 2019, 221, 265-280.	1.6	29
148	Measurement of Electronâˆ’Electron Interactions and Correlations Using Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 12122-12133.	1.1	28
149	Coherence from Light Harvesting to Chemistry. Journal of Physical Chemistry Letters, 2018, 9, 1568-1572.	2.1	28
150	A cyanide-bridged di-manganese carbonyl complex that photochemically reduces CO₂ to CO. Dalton Transactions, 2019, 48, 1226-1236.	1.6	28
151	Ion-pair reorganization regulates reactivity in photoredox catalysts. Nature Chemistry, 2022, 14, 746-753.	6.6	28
152	Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. Journal of Materials Chemistry, 2003, 13, 2213.	6.7	27
153	Exploring Ultrafast Electronic Processes of Quasi-Type II Nanocrystals by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 16255-16263.	1.5	27
154	Carotenoid Nuclear Reorganization and Interplay of Bright and Dark Excited States. Journal of Physical Chemistry B, 2019, 123, 8628-8643.	1.2	27
155	Dinitrogen Coupling to a Terpyridine-Molybdenum Chromophore Is Switched on by Fermi Resonance. CheM, 2019, 5, 402-416.	5.8	27
156	Reduced Recombination and Capacitor-like Charge Buildup in an Organic Heterojunction. Journal of the American Chemical Society, 2020, 142, 2562-2571.	6.6	27
157	Two-dimensional electronic spectroscopy for mapping molecular photophysics. Pure and Applied Chemistry, 2013, 85, 1307-1319.	0.9	26
158	Overlap-Driven Splitting of Triplet Pairs in Singlet Fission. Journal of the American Chemical Society, 2020, 142, 20040-20047.	6.6	26
159	Visible light enables catalytic formation of weak chemical bonds with molecular hydrogen. Nature Chemistry, 2021, 13, 969-976.	6.6	26
160	Electronic interactions in rigidly linked naphthalene dimers. Chemical Physics Letters, 1998, 292, 601-606.	1.2	25
161	Green quantum computers. Nature Physics, 2010, 6, 402-403.	6.5	25
162	Acoustic phonon strain induced mixing of the fine structure levels in colloidal CdSe quantum dots observed by a polarization grating technique. Journal of Chemical Physics, 2010, 132, 104506.	1.2	25

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163	Delocalization-Enhanced Long-Range Energy Transfer between Cryptophyte Algae PE545 Antenna Proteins. Journal of Physical Chemistry B, 2011, 115, 5243-5253.	1.2	25
164	Solar fuels and feedstocks: the quest for renewable black gold. Energy and Environmental Science, 2021, 14, 1402-1419.	15.6	25
165	Coherent-to-Incoherent Transition of Molecular Fluorescence Controlled by Surface Plasmon Polaritons. Journal of Physical Chemistry Letters, 2020, 11, 5948-5955.	2.1	24
166	Polariton Decay in Donorâ€"Acceptor Cavity Systems. Journal of Physical Chemistry Letters, 2021, 12, 9774-9782.	2.1	22
167	Thermal Light Cannot Be Represented as a Statistical Mixture of Single Pulses. Physical Review Letters, 2015, 114, 213601.	2.9	21
168	Can Nanocavities Significantly Enhance Resonance Energy Transfer in a Single Donorâ€"Acceptor Pair?. Journal of Physical Chemistry C, 2021, 125, 18119-18128.	1.5	21
169	PCET-Based Ligand Limits Charge Recombination with an Ir(III) Photoredox Catalyst. Journal of the American Chemical Society, 2021, 143, 13034-13043.	6.6	20
170	Boosting plant biology. Nature Materials, 2014, 13, 329-331.	13.3	19
171	Vibronic Wavepackets and Energy Transfer in Cryptophyte Light-Harvesting Complexes. Journal of Physical Chemistry B, 2018, 122, 6328-6340.	1.2	19
172	Surface passivation in CdSe nanocrystalâ€"polymer films revealed by ultrafast excitation relaxation dynamics. Physica Status Solidi (B): Basic Research, 2004, 241, 1986-1993.	0.7	18
173	Interaction between excitons determines the non-linear response of nanocrystals. Chemical Physics, 2008, 350, 56-68.	0.9	18
174	Estimation of damped oscillation associated spectra from ultrafast transient absorption spectra. Journal of Chemical Physics, 2016, 145, 174201.	1.2	18
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