

Gregory D Scholes

List of Publications by Year in descending order

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406
papers

24,215
citations

10070

75
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9118

149
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415
all docs

415
docs citations

415
times ranked

21293
citing authors

#	ARTICLE	IF	CITATIONS
1	Lessons from nature about solar light harvesting. <i>Nature Chemistry</i> , 2011, 3, 763-774.	6.6	1,556
2	Coherently wired light-harvesting in photosynthetic marine algae at ambient temperature. <i>Nature</i> , 2010, 463, 644-647.	13.7	1,392
3	Efficient perovskite light-emitting diodes featuring nanometre-sized crystallites. <i>Nature Photonics</i> , 2017, 11, 108-115.	15.6	1,175
4	Excitons in nanoscale systems. <i>Nature Materials</i> , 2006, 5, 683-696.	13.3	1,096
5	LONG-RANGE RESONANCE ENERGY TRANSFER IN MOLECULAR SYSTEMS. <i>Annual Review of Physical Chemistry</i> , 2003, 54, 57-87.	4.8	1,063
6	Light Absorption and Energy Transfer in the Antenna Complexes of Photosynthetic Organisms. <i>Chemical Reviews</i> , 2017, 117, 249-293.	23.0	802
7	Coherent Intrachain Energy Migration in a Conjugated Polymer at Room Temperature. <i>Science</i> , 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. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5378-5386.	1.2	653
9	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017, 543, 647-656.	13.7	477
10	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.	1.2	427
11	Beyond Förster Resonance Energy Transfer in Biological and Nanoscale Systems. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6583-6599.	1.2	404
12	Coherence in Energy Transfer and Photosynthesis. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 69-96.	4.8	327
13	Electronic Energy Transfer in Condensed Phase Studied by a Polarizable QM/MM Model. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1838-1848.	2.3	259
14	Photoexcitation of flavoenzymes enables a stereoselective radical cyclization. <i>Science</i> , 2019, 364, 1166-1169.	6.0	256
15	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , 2020, 4, 490-504.	13.8	247
16	Photovoltaic concepts inspired by coherence effects in photosynthetic systems. <i>Nature Materials</i> , 2017, 16, 35-44.	13.3	243
17	Electronic Energy Transfer and Quantum-Coherence in π -Conjugated Polymers. <i>Chemistry of Materials</i> , 2011, 23, 610-620.	3.2	225
18	Photosynthetic light harvesting: excitons and coherence. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130901.	1.5	225

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19	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.	1.2	222
20	Controlling the Optical Properties of Inorganic Nanoparticles. <i>Advanced Functional Materials</i> , 2008, 18, 1157-1172.	7.8	221
21	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.	6.6	219
22	Quantum-Coherent Electronic Energy Transfer: Did Nature Think of It First?. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2-8.	2.1	215
23	Structure-Tuned Lead Halide Perovskite Nanocrystals. <i>Advanced Materials</i> , 2016, 28, 566-573.	11.1	215
24	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.	1.2	208
25	Exciton Delocalization Drives Rapid Singlet Fission in Nanoparticles of Acene Derivatives. <i>Journal of the American Chemical Society</i> , 2015, 137, 6790-6803.	6.6	195
26	Energy transfer from Förster-Dexter theory to quantum coherent light-harvesting. <i>International Reviews in Physical Chemistry</i> , 2011, 30, 49-77.	0.9	188
27	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2370-2375.	2.1	186
28	The fundamental role of quantized vibrations in coherent light harvesting by cryptophyte algae. <i>Journal of Chemical Physics</i> , 2012, 137, 174109.	1.2	184
29	Comparison of Electronic and Vibrational Coherence Measured by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1904-1911.	2.1	181
30	Highly Efficient Warm White Organic Light-Emitting Diodes by Triplet Exciton Conversion. <i>Advanced Functional Materials</i> , 2013, 23, 705-712.	7.8	168
31	³ 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.	6.6	168
32	How Solvent Controls Electronic Energy Transfer and Light Harvesting. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6978-6982.	1.2	167
33	Mixed-Halide Perovskites with Stabilized Bandgaps. <i>Nano Letters</i> , 2017, 17, 6863-6869.	4.5	165
34	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.	6.6	162
35	Quantitative investigations of quantum coherence for a light-harvesting protein at conditions simulating photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4857.	1.3	158
36	<i>In Situ</i> Preparation of Metal Halide Perovskite Nanocrystal Thin Films for Improved Light-Emitting Devices. <i>ACS Nano</i> , 2017, 11, 3957-3964.	7.3	151

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37	Tuning Singlet Fission in π -Bridge- π Chromophores. <i>Journal of the American Chemical Society</i> , 2017, 139, 12488-12494.	6.6	147
38	Delayed fluorescence from a zirconium(IV) photosensitizer with ligand-to-metal charge-transfer excited states. <i>Nature Chemistry</i> , 2020, 12, 345-352.	6.6	144
39	Conformational Disorder and Ultrafast Exciton Relaxation in PPV-family Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2009, 113, 656-667.	1.2	143
40	Broadband 2D Electronic Spectroscopy Reveals a Carotenoid Dark State in Purple Bacteria. <i>Science</i> , 2013, 340, 52-56.	6.0	143
41	Pitfalls and limitations in the practical use of Förster's theory of resonance energy transfer. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1444-1448.	1.6	141
42	A Water-Soluble pH-Responsive Molecular Brush of Poly(<i>N,N</i> -dimethylaminoethyl) Methacrylate. <i>Macromolecules</i> , 2010, 43, 5050-5054.	2.2	138
43	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 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. <i>Journal of Chemical Physics</i> , 1995, 102, 9574-9581.	1.2	131
45	Vibrational coherence probes the mechanism of ultrafast electron transfer in polymer-fullerene blends. <i>Nature Communications</i> , 2014, 5, 4933.	5.8	131
46	Photosynthetic Light-Harvesting Is Tuned by the Heterogeneous Polarizable Environment of the Protein. <i>Journal of the American Chemical Society</i> , 2011, 133, 3078-3084.	6.6	123
47	Asymmetric redox-neutral radical cyclization catalysed by flavin-dependent α -ketoacid reductases. <i>Nature Chemistry</i> , 2020, 12, 71-75.	6.6	123
48	Insights into Excitons Confined to Nanoscale Systems: Electron-Hole Interaction, Binding Energy, and Photodissociation. <i>ACS Nano</i> , 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. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2530-2535.	2.1	121
50	Charge Photogeneration in Neat Conjugated Polymers. <i>Chemistry of Materials</i> , 2014, 26, 561-575.	3.2	118
51	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, 135-153.	2.0	117
52	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, 13253-13265.	1.2	117
53	Correlated Pair States Formed by Singlet Fission and Exciton-Exciton Annihilation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12699-12705.	1.1	116
54	Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1375-1384.	7.6	113

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55	Solar light harvesting by energy transfer: from ecology to coherence. <i>Energy and Environmental Science</i> , 2012, 5, 9374.	15.6	113
56	Electronic and Vibrational Coherences in Resonance Energy Transfer along MEH-PPV Chains at Room Temperature. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4223-4241.	1.1	111
57	Electronic coherence lineshapes reveal hidden excitonic correlations in photosynthetic light harvesting. <i>Nature Chemistry</i> , 2012, 4, 396-404.	6.6	110
58	Transient Absorption Spectroscopy Offers Mechanistic Insights for an Iridium/Nickel-Catalyzed C=C O Coupling. <i>Journal of the American Chemical Society</i> , 2020, 142, 4555-4559.	6.6	110
59	Vibronic Enhancement of Algae Light Harvesting. <i>CheM</i> , 2016, 1, 858-872.	5.8	109
60	Examining Förster Energy Transfer for Semiconductor Nanocrystalline Quantum Dot Donors and Acceptors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13336-13341.	1.5	104
61	On the use of time-resolved photoluminescence as a probe of nanocrystal photoexcitation dynamics. <i>Journal of Materials Chemistry</i> , 2010, 20, 3533.	6.7	103
62	Exciton Superposition States in CdSe Nanocrystals Measured Using Broadband Two-Dimensional Electronic Spectroscopy. <i>Nano Letters</i> , 2012, 12, 880-886.	4.5	102
63	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. <i>Chemical Science</i> , 2018, 9, 6240-6259.	3.7	97
64	Water-Soluble CdSe Quantum Dots Passivated by a Multidentate Diblock Copolymer. <i>Macromolecules</i> , 2007, 40, 6377-6384.	2.2	95
65	Room-temperature exciton coherence and dephasing in two-dimensional nanostructures. <i>Nature Communications</i> , 2015, 6, 6086.	5.8	94
66	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.	6.6	93
67	The photophysics of cryptophyte light-harvesting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 184, 1-17.	2.0	88
68	From Fundamental Theories to Quantum Coherences in Electron Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 708-722.	6.6	85
69	Dynamic Exchange During Triplet Transport in Nanocrystalline TIPS-Pentacene Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 16069-16080.	6.6	84
70	Quaternary Charge-Transfer Complex Enables Photoenzymatic Intermolecular Hydroalkylation of Olefins. <i>Journal of the American Chemical Society</i> , 2021, 143, 97-102.	6.6	84
71	Exciton Trapping and Recombination in Type II CdSe/CdTe Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5423-5431.	1.5	83
72	Coherent Oscillations in the PC577 Cryptophyte Antenna Occur in the Excited Electronic State. <i>Journal of Physical Chemistry B</i> , 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: Rhodamine 6G in Electron-Donating Solvents. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10348-10358.	1.1	82
74	Exciton Fine Structure and Spin Relaxation in Semiconductor Colloidal Quantum Dots. <i>Accounts of Chemical Research</i> , 2009, 42, 1037-1046.	7.6	81
75	Engineering Perovskite Nanocrystal Surface Termination for Light-Emitting Diodes with External Quantum Efficiency Exceeding 15%. <i>Advanced Functional Materials</i> , 2019, 29, 1807284.	7.8	80
76	Exciton-bath coupling and inhomogeneous broadening in the optical spectroscopy of semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2003, 118, 9380-9388.	1.2	79
77	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.	2.9	77
78	Crossing disciplines – A view on two-dimensional optical spectroscopy. <i>Annalen Der Physik</i> , 2014, 526, 31-49.	0.9	77
79	Influence of Bulky Organoammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2018, 28, 1802060.	7.8	76
80	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 419-426.	2.1	74
81	Site-selective tyrosine bioconjugation via photoredox catalysis for native-to-bioorthogonal protein transformation. <i>Nature Chemistry</i> , 2021, 13, 902-908.	6.6	74
82	The Nature of Excimer Formation in Crystalline Pyrene Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21004-21017.	1.5	71
83	Dark States in the Light-Harvesting complex 2 Revealed by Two-dimensional Electronic Spectroscopy. <i>Scientific Reports</i> , 2016, 6, 20834.	1.6	69
84	Excitation Dynamics in Phycoerythrin 545: Modeling of Steady-State Spectra and Transient Absorption with Modified Redfield Theory. <i>Biophysical Journal</i> , 2010, 99, 344-352.	0.2	67
85	Coherent Energy Transfer under Incoherent Light Conditions. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3136-3142.	2.1	66
86	Rate expressions for excitation transfer I. Radiationless transition theory perspective. <i>Journal of Chemical Physics</i> , 1994, 101, 1251-1261.	1.2	65
87	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.	3.3	65
88	Solution-processed inorganic perovskite crystals as achromatic quarter-wave plates. <i>Nature Photonics</i> , 2021, 15, 813-816.	15.6	64
89	Exciton spin relaxation in quantum dots measured using ultrafast transient polarization grating spectroscopy. <i>Physical Review B</i> , 2006, 73, .	1.1	62
90	Ultrafast light harvesting dynamics in the cryptophyte phycocyanin 645. <i>Photochemical and Photobiological Sciences</i> , 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. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2012-2022.	1.5	62
92	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.	3.3	61
93	Polariton Transitions in Femtosecond Transient Absorption Studies of Ultrastrong Light-Molecule Coupling. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2667-2674.	2.1	60
94	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.	1.2	59
95	Methylene Blue Exciton States Steer Nonradiative Relaxation: Ultrafast Spectroscopy of Methylene Blue Dimer. <i>Journal of Physical Chemistry B</i> , 2016, 120, 440-454.	1.2	59
96	Slow Intramolecular Vibrational Relaxation Leads to Long-Lived Excited-State Wavepackets. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6792-6799.	1.1	58
97	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.	2.1	58
98	Carbene-Metal-Amide Bond Deformation, Rather Than Ligand Rotation, Drives Delayed Fluorescence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1620-1626.	2.1	57
99	Solution-processable, crystalline material for quantitative singlet fission. <i>Materials Horizons</i> , 2017, 4, 915-923.	6.4	56
100	Broadband Transient Absorption and Two-Dimensional Electronic Spectroscopy of Methylene Blue. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9098-9108.	1.1	55
101	Relaxation in the Exciton Fine Structure of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 795-811.	1.5	54
102	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.	15.6	54
103	Selection rules for probing biexcitons and electron spin transitions in isotropic quantum dot ensembles. <i>Journal of Chemical Physics</i> , 2004, 121, 10104-10110.	1.2	52
104	How Energy Funnel 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, 25066-25073.	1.2	52
105	Loading quantum dots into thermo-responsive microgels by reversible transfer from organic solvents to water. <i>Journal of Materials Chemistry</i> , 2008, 18, 763.	6.7	52
106	Coherence Spectroscopy in the Condensed Phase: Insights into Molecular Structure, Environment, and Interactions. <i>Accounts of Chemical Research</i> , 2017, 50, 2746-2755.	7.6	52
107	The separation of vibrational coherence from ground- and excited-electronic states in P3HT film. <i>Journal of Chemical Physics</i> , 2015, 142, 212410.	1.2	51
108	Interplay of vibrational wavepackets during an ultrafast electron transfer reaction. <i>Nature Chemistry</i> , 2021, 13, 70-76.	6.6	51

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109	Spectroscopic Studies of Cryptophyte Light Harvesting Proteins: Vibrations and Coherent Oscillations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10025-10034.	1.2	50
110	Energy Flow in the Cryptophyte PE545 Antenna Is Directed by Bilin Pigment Conformation. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4263-4273.	1.2	49
111	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. <i>Journal of Chemical Physics</i> , 2016, 144, 175102.	1.2	49
112	Broad-Band Pump-Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4722-4731.	2.1	49
113	DNA-Templated Aggregates of Strongly Coupled Cyanine Dyes: Nonradiative Decay Governs Exciton Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2386-2392.	2.1	49
114	Coherent Two-Dimensional and Broadband Electronic Spectroscopies. <i>Chemical Reviews</i> , 2022, 122, 4257-4321.	23.0	47
115	Biexcitonic Fine Structure of CdSe Nanocrystals Probed by Polarization-Dependent Two-Dimensional Photon Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3797-3806.	1.1	46
116	Measures and implications of electronic coherence in photosynthetic light-harvesting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 3728-3749.	1.6	46
117	Two-Dimensional Visible Spectroscopy For Studying Colloidal Semiconductor Nanocrystals. <i>Small</i> , 2016, 12, 2234-2244.	5.2	46
118	Photoenzymatic Reductions Enabled by Direct Excitation of Flavin-Dependent α -Reductases. <i>Journal of the American Chemical Society</i> , 2021, 143, 1735-1739.	6.6	46
119	Nanocrystal Shape and the Mechanism of Exciton Spin Relaxation. <i>Nano Letters</i> , 2006, 6, 1765-1771.	4.5	45
120	Ultrafast relaxation of charge-transfer excitons in low-bandgap conjugated copolymers. <i>Chemical Science</i> , 2012, 3, 2270.	3.7	44
121	Manganese-Based Catalysts with Varying Ligand Substituents for the Electrochemical Reduction of CO ₂ to CO. <i>Organometallics</i> , 2019, 38, 1292-1299.	1.1	44
122	Entropy Reorders Polariton States. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6389-6395.	2.1	42
123	$\frac{1}{4}$ Map-Red: Proximity Labeling by Red Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 6154-6162.	6.6	42
124	Flow of Excitation Energy in the Cryptophyte Light-Harvesting Antenna Phycocyanin 645. <i>Biophysical Journal</i> , 2011, 101, 1004-1013.	0.2	41
125	Biexciton Resonances Reveal Exciton Localization in Stacked Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3895-3901.	2.1	41
126	From coherent to vibronic light harvesting in photosynthesis. <i>Current Opinion in Chemical Biology</i> , 2018, 47, 39-46.	2.8	40

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127	On the rate of radiationless intermolecular energy transfer. <i>Journal of Chemical Physics</i> , 1992, 97, 7405-7413.	1.2	39
128	Polaritons and excitons: Hamiltonian design for enhanced coherence. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200278.	1.0	39
129	Intramolecular radiationless transitions dominate exciton relaxation dynamics. <i>Chemical Physics Letters</i> , 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> . <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3677-3684.	2.1	37
131	Perspective: Detecting and measuring exciton delocalization in photosynthetic light harvesting. <i>Journal of Chemical Physics</i> , 2014, 140, 110901.	1.2	37
132	Generalization of the hierarchical equations of motion theory for efficient calculations with arbitrary correlation functions. <i>Journal of Chemical Physics</i> , 2020, 152, 204101.	1.2	36
133	Mechanism and Origin of Exciton Spin Relaxation in CdSe Nanorods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25371-25382.	1.2	34
134	A Little Coherence in Photosynthetic Light Harvesting. <i>BioScience</i> , 2014, 64, 14-25.	2.2	34
135	Visible-Light-Enhanced Cobalt-Catalyzed Hydrogenation: Switchable Catalysis Enabled by Divergence between Thermal and Photochemical Pathways. <i>ACS Catalysis</i> , 2021, 11, 1351-1360.	5.5	34
136	Engineering a Non-Natural Photoenzyme for Improved Photon Efficiency**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	34
137	Rate expressions for excitation transfer. IV. Energy migration and superexchange phenomena. <i>Journal of Chemical Physics</i> , 1995, 103, 8873-8883.	1.2	33
138	Observing Vibrational Wavepackets during an Ultrafast Electron Transfer Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11837-11846.	1.1	33
139	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.	6.6	33
140	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.	1.2	33
141	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. <i>Nature Communications</i> , 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. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14219-14226.	1.2	31
143	Ultrafast exciton dynamics in 2D in-plane hetero-nanostructures: delocalization and charge transfer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8373-8379.	1.3	31
144	Photophysical characterization and time-resolved spectroscopy of an anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23162-23175.	1.3	31

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145	Coherence in photosynthesis. <i>Nature Physics</i> , 2011, 7, 448-449.	6.5	30
146	Adding Amorphous Content to Highly Crystalline Polymer Nanowire Solar Cells Increases Performance. <i>Advanced Materials</i> , 2015, 27, 3484-3491.	11.1	29
147	Limits of exciton delocalization in molecular aggregates. <i>Faraday Discussions</i> , 2019, 221, 265-280.	1.6	29
148	Measurement of Electron-Electron Interactions and Correlations Using Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12122-12133.	1.1	28
149	Coherence from Light Harvesting to Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1568-1572.	2.1	28
150	A cyanide-bridged di-manganese carbonyl complex that photochemically reduces CO ₂ to CO. <i>Dalton Transactions</i> , 2019, 48, 1226-1236.	1.6	28
151	Ion-pair reorganization regulates reactivity in photoredox catalysts. <i>Nature Chemistry</i> , 2022, 14, 746-753.	6.6	28
152	Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. <i>Journal of Materials Chemistry</i> , 2003, 13, 2213.	6.7	27
153	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.	1.5	27
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339	Confronting Racism in Chemistry Journals. Journal of Chemical Education, 2020, 97, 1695-1697.	1.1	0
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