

# Daniel B Turner

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,413  
citations

257450

24  
h-index

197818

49  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2033  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Quantum 2D FT Electronic Spectroscopy of Biexcitons in GaAs Quantum Wells. <i>Science</i> , 2009, 324, 1169-1173.	12.6	262
2	Comparison of Electronic and Vibrational Coherence Measured by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1904-1911.	4.6	181
3	Coherent measurements of high-order electronic correlations in quantum wells. <i>Nature</i> , 2010, 466, 1089-1092.	27.8	161
4	Quantitative investigations of quantum coherence for a light-harvesting protein at conditions simulating photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4857.	2.8	158
5	Solar light harvesting by energy transfer: from ecology to coherence. <i>Energy and Environmental Science</i> , 2012, 5, 9374.	30.8	113
6	Electronic coherence lineshapes reveal hidden excitonic correlations in photosynthetic light harvesting. <i>Nature Chemistry</i> , 2012, 4, 396-404.	13.6	110
7	Triplet Separation Drives Singlet Fission after Femtosecond Correlated Triplet Pair Production in Rubrene. <i>Journal of the American Chemical Society</i> , 2017, 139, 11745-11751.	13.7	107
8	Exciton Superposition States in CdSe Nanocrystals Measured Using Broadband Two-Dimensional Electronic Spectroscopy. <i>Nano Letters</i> , 2012, 12, 880-886.	9.1	102
9	Coherent Oscillations in the PC577 Cryptophyte Antenna Occur in the Excited Electronic State. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1296-1308.	2.6	83
10	Exciton-Exciton Correlations Revealed by Two-Quantum, Two-Dimensional Fourier Transform Optical Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1452-1461.	15.6	77
11	Crossing disciplines – A view on two-dimensional optical spectroscopy. <i>Annalen Der Physik</i> , 2014, 526, 31-49.	2.4	77
12	Invited Article: The coherent optical laser beam recombination technique (COLBERT) spectrometer: Coherent multidimensional spectroscopy made easier. <i>Review of Scientific Instruments</i> , 2011, 82, 081301.	1.3	76
13	Three-dimensional electronic spectroscopy of excitons in GaAs quantum wells. <i>Journal of Chemical Physics</i> , 2009, 131, 144510.	3.0	73
14	Probing Homogeneous Line Broadening in CdSe Nanocrystals Using Multidimensional Electronic Spectroscopy. <i>Nano Letters</i> , 2017, 17, 2809-2815.	9.1	72
15	Multidimensional coherent spectroscopy made easy. <i>Chemical Physics</i> , 2007, 341, 89-94.	1.9	63
16	Experimental Detection of Branching at a Conical Intersection in a Highly Fluorescent Molecule. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 14-19.	4.6	56
17	Resolving molecular vibronic structure using high-sensitivity two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 164203.	3.0	50
18	Spectroscopic Studies of Cryptophyte Light Harvesting Proteins: Vibrations and Coherent Oscillations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10025-10034.	2.6	50

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19	Broad-Band Pump-Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4722-4731.	4.6	49
20	Persistent exciton-type many-body interactions in GaAs quantum wells measured using two-dimensional optical spectroscopy. <i>Physical Review B</i> , 2012, 85, .	3.2	44
21	Accurate convergence of transient-absorption spectra using pulsed lasers. <i>Review of Scientific Instruments</i> , 2015, 86, 053106.	1.3	41
22	Ultrabroadband two-quantum two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 145, .	3.0	34
23	Fluorescence Quenching Effects of Tetrazines and Their Diels-Alder Products: Mechanistic Insight Toward Fluorogenic Efficiency. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22140-22149.	13.8	31
24	Rotaxane rings promote oblique packing and extended lifetimes in DNA-templated molecular dye aggregates. <i>Communications Chemistry</i> , 2021, 4, .	4.5	26
25	Excited-State Lifetimes of DNA-Templated Cyanine Dimer, Trimer, and Tetramer Aggregates: The Role of Exciton Delocalization, Dye Separation, and DNA Heterogeneity. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10240-10259.	2.6	26
26	Coherent multidimensional optical spectra measured using incoherent light. <i>Nature Communications</i> , 2013, 4, 2298.	12.8	24
27	Conformational Homogeneity in the P <sub>r</sub> Isomer of Phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2622-2630.	2.6	20
28	Femtosecond pulse compression using a neural-network algorithm. <i>Optics Letters</i> , 2018, 43, 5166.	3.3	19
29	A systematic model study quantifying how conical intersection topography modulates photochemical reactions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20265-20283.	2.8	17
30	Two-Dimensional Electronic Spectroscopy Using Incoherent Light: Theoretical Analysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5926-5954.	2.5	16
31	Two-Dimensional Electronic Spectroscopy Reveals the Spectral Dynamics of Förster Resonance Energy Transfer. <i>CheM</i> , 2019, 5, 2111-2125.	11.7	15
32	Tuning between Quenching and Energy Transfer in DNA-Templated Heterodimer Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2782-2791.	4.6	15
33	Coherent two-exciton dynamics measured using two-quantum rephasing two-dimensional electronic spectroscopy. <i>Physical Review B</i> , 2011, 84, .	3.2	14
34	Spin-Orbit Coupling Drives Femtosecond Nonadiabatic Dynamics in a Transition Metal Compound. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1315-1322.	4.6	12
35	Signatures of Herzberg-Teller coupling in three-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, 084311.	3.0	12
36	Signatures of Vibrational and Electronic Quantum Beats in Femtosecond Coherence Spectra. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2425-2435.	2.5	12

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37	Oblique Packing and Tunable Excitonic Coupling in DNA-Templated Squaraine Rotaxane Dimer Aggregates. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	12
38	Characterizing Mode Anharmonicity and Huang-Rhys Factors Using Models of Femtosecond Coherence Spectra. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5413-5423.	4.6	12
39	Resolving the Fluorescence Quenching Mechanism of an Oxazine Dye Using Ultrabroadband Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5072-5080.	2.5	11
40	Interference among Multiple Vibronic Modes in Two-Dimensional Electronic Spectroscopy. <i>Mathematics</i> , 2020, 8, 157.	2.2	11
41	<i>E</i> to <i>Z</i> Photoisomerization of Phytochrome Cph1 Exceeds the Born-Oppenheimer Adiabatic Limit. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3550-3556.	4.6	9
42	Basis set truncation further clarifies vibrational coherence spectra. <i>Chemical Physics</i> , 2020, 539, 110948.	1.9	9
43	Factorized time correlation diagram analysis of paired causal systems excited by twin stochastic driving functions. <i>Physical Review E</i> , 2002, 65, 026142.	2.1	7
44	Standardized specifications of 2D optical spectrometers. <i>Results in Chemistry</i> , 2019, 1, 100001.	2.0	7
45	Nonadiabatic Photochemistry Induced by Inaccessible Conical Intersections. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7768-7776.	2.5	6
46	Fluorescence Quenching Effects of Tetrazines and Their Diels-Alder Products: Mechanistic Insight Toward Fluorogenic Efficiency. <i>Angewandte Chemie</i> , 2020, 132, 22324-22333.	2.0	6
47	Factorized time correlation diagram analysis of Raman induced Kerr effect spectroscopy using noisy light. <i>Journal of Chemical Physics</i> , 2003, 119, 10745-10752.	3.0	5
48	Resonance is the key for coherence. <i>Nature Chemistry</i> , 2017, 9, 196-197.	13.6	5
49	A Tractable Numerical Model for Exploring Nonadiabatic Quantum Dynamics. <i>Journal of Chemical Education</i> , 2017, 94, 582-591.	2.3	4
50	Lineshape analysis of coherent multidimensional optical spectroscopy using incoherent light. <i>Journal of Chemical Physics</i> , 2015, 142, 212420.	3.0	3
51	Inertial water response dominates protein solvation dynamics. <i>Chemical Physics Letters</i> , 2019, 728, 1-5.	2.6	3
52	Electronic and Vibrational Coherences in Algal Light-Harvesting Proteins. <i>EPJ Web of Conferences</i> , 2013, 41, 08004.	0.3	1
53	Addition of a Carbonyl End Group Increases the Rate of Excited-State Decay in a Carotenoid via Conjugation Extension and Symmetry Breaking. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10872-10879.	2.6	1
54	Three-Dimensional Electronic Four Wave-Mixing Spectroscopy in GaAs Quantum Wells. <i>Springer Series in Chemical Physics</i> , 2009, , 286-288.	0.2	1

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55	Two-Dimensional Electronic Spectroscopy Reveals the Spectral Dynamics of Förster Resonance Energy Transfer. SSRN Electronic Journal, 0, , .	0.4	1
56	Coherent Measurements of High-Order Electronic Correlations in GaAs Quantum Wells. , 2010, , .		1
57	Multiple-quantum 2D spectroscopy of many-body correlations in GaAs quantum wells. , 2010, , .		0
58	Coherent Two-Quantum Two-Dimensional Electronic Spectroscopy Using Incoherent Light. Journal of Physical Chemistry A, 2017, 121, 9211-9220.	2.5	0
59	Selective Excitation of Resonances in 2D Fourier Transform Optical Spectroscopy with Tailored Pulse Shapes. , 2010, , .		0
60	Coherent Wavepacket Evolution Analysis Reveals a Conical Intersection in a Highly Fluorescent Molecule. , 2016, , .		0