

Tessa R Calhoun

List of Publications by Year in descending order

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31
papers

4,580
citations

430754

18
h-index

552653

26
g-index

36
all docs

36
docs citations

36
times ranked

4167
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for wavelike energy transfer through quantum coherence in photosynthetic systems. <i>Nature</i> , 2007, 446, 782-786.	13.7	2,685
2	Quantum coherence and its interplay with protein environments in photosynthetic electronic energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7319.	1.3	307
3	Quantum Coherence Enabled Determination of the Energy Landscape in Light-Harvesting Complex II. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16291-16295.	1.2	266
4	Dynamic Solvation in Room-Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10245-10255.	1.2	206
5	Chemical nature of ferroelastic twin domains in CH ₃ NH ₃ PbI ₃ perovskite. <i>Nature Materials</i> , 2018, 17, 1013-1019.	13.3	183
6	Pathways of Energy Flow in LHCII from Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15352-15363.	1.2	175
7	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. <i>Nature Chemistry</i> , 2012, 4, 389-395.	6.6	156
8	Cross-peak-specific two-dimensional electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14203-14208.	3.3	137
9	Thieno[3,4-b]pyrazines: Synthesis, Structure, and Reactivity. <i>Journal of Organic Chemistry</i> , 2002, 67, 9073-9076.	1.7	129
10	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13276-13281.	3.3	62
11	Flexible approach to vibrational sum-frequency generation using shaped near-infrared light. <i>Optics Letters</i> , 2018, 43, 2038.	1.7	34
12	Two-Dimensional Electronic Spectroscopy Reveals the Dynamics of Phonon-Mediated Excitation Pathways in Semiconducting Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2012, 12, 813-819.	4.5	27
13	Elucidation of Perovskite Film Micro-Orientations Using Two-Photon Total Internal Reflectance Fluorescence Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3283-3288.	2.1	24
14	Energetics at the Surface: Direct Optical Mapping of Core and Surface Electronic Structure in CdSe Quantum Dots Using Broadband Electronic Sum Frequency Generation Microspectroscopy. <i>Nano Letters</i> , 2019, 19, 6157-6165.	4.5	23
15	The separation of overlapping transitions in β -carotene with broadband 2D electronic spectroscopy. <i>Chemical Physics Letters</i> , 2012, 523, 1-5.	1.2	21
16	Second Harmonic Generation Spectroscopy of Membrane Probe Dynamics in Gram-Positive Bacteria. <i>Biophysical Journal</i> , 2019, 117, 1419-1428.	0.2	21
17	Reply to: On the ferroelectricity of CH ₃ NH ₃ PbI ₃ perovskites. <i>Nature Materials</i> , 2019, 18, 1051-1053.	13.3	21
18	A new approach to vibrational sum frequency generation spectroscopy using near infrared pulse shaping. <i>Review of Scientific Instruments</i> , 2019, 90, 033106.	0.6	20

#	ARTICLE	IF	CITATIONS
19	Quantum coherence in photosynthetic complexes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 833-838.	0.7	19
20	Probing ligand removal and ordering at quantum dot surfaces using vibrational sum frequency generation spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 389-395.	5.0	15
21	Electronic coherence transfer in photosynthetic complexes and its signatures in optical spectroscopy. <i>Spectroscopy</i> , 2008, 22, 199-211.	0.8	15
22	Phosphate Ions Alter the Binding of Daptomycin to Living Bacterial Cell Surfaces. <i>ACS Infectious Diseases</i> , 2021, 7, 3088-3095.	1.8	10
23	Total Internal Reflection Transient Absorption Microscopy: An Online Detection Method for Microfluidics. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4160-4170.	1.1	7
24	Compressed supercontinuum probe for transient absorption microscopy. <i>Optics Letters</i> , 2018, 43, 1750.	1.7	6
25	Leaving the Limits of Linearity for Light Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24555-24565.	1.5	6
26	Shedding light on surface effects: nonlinear probes of complex materials. , 2018, , .		1
27	Two-dimensional Electronic Spectroscopy of Photosynthetic Light-Harvesting Complexes. , 2007, , .		0
28	Observation of Quantum Coherence in Light-Harvesting Complex II by Two-Dimensional Electronic Spectroscopy. <i>Springer Series in Chemical Physics</i> , 2009, , 406-408.	0.2	0
29	Raising the Bar in Freshman Science Education: Student Lectures, Scientific Papers, and Independent Experiments. <i>Journal of College Science Teaching</i> , 2014, 043, .	0.5	0
30	Label Free Imaging of the Amphotericin B " Live Cell Interaction using Transient Absorption Microscopy. , 2017, , .		0
31	Small Molecule Sorting: A Fluorescence Study of Microemulsions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4990-4998.	1.2	0