

Juergen Hauer

List of Publications by Year in descending order

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83
papers

2,483
citations

147801

31
h-index

197818

49
g-index

85
all docs

85
docs citations

85
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum biology revisited. <i>Science Advances</i> , 2020, 6, eaaz4888.	10.3	266
2	Vibronic origin of long-lived coherence in an artificial molecular light harvester. <i>Nature Communications</i> , 2015, 6, 7755.	12.8	129
3	High Frequency Vibrational Modulations in Two-Dimensional Electronic Spectra and Their Resemblance to Electronic Coherence Signatures. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5383-5391.	2.6	97
4	Vibronic and Vibrational Coherences in Two-Dimensional Electronic Spectra of Supramolecular J-Aggregates. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6007-6014.	2.5	88
5	Two-dimensional Fourier transform spectroscopy in the ultraviolet with sub-20 fs pump pulses and 250-720 nm supercontinuum probe. <i>New Journal of Physics</i> , 2013, 15, 085016.	2.9	82
6	System-Dependent Signatures of Electronic and Vibrational Coherences in Electronic Two-Dimensional Spectra. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1497-1502.	4.6	80
7	Pump-Degenerate Four Wave Mixing as a Technique for Analyzing Structural and Electronic Evolution: A Multidimensional Time-Resolved Dynamics near a Conical Intersection. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10517-10529.	2.5	75
8	Challenges facing an understanding of the nature of low-energy excited states in photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1627-1640.	1.0	74
9	Two-Dimensional Electronic Spectroscopy of $\hat{1}^2$ -Carotene. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16409-16419.	2.6	73
10	Hole-mediated photoredox catalysis: tris(<i>p</i> -substituted)biarylammonium radical cations as tunable, precomplexing and potent photooxidants. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1132-1142.	4.5	72
11	Controlling the efficiency of an artificial light-harvesting complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7641-7646.	7.1	67
12	Entrapped Molecular Photocatalyst and Photosensitizer in Metal-Organic Framework Nanoreactors for Enhanced Solar CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 871-882.	11.2	65
13	Double-quantum two-dimensional electronic spectroscopy of a three-level system: Experiments and simulations. <i>Journal of Chemical Physics</i> , 2010, 133, 094505.	3.0	61
14	A Unified Picture of S* in Carotenoids. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3347-3352.	4.6	59
15	Enhancement of Raman modes by coherent control in $\hat{1}^2$ -carotene. <i>Chemical Physics Letters</i> , 2006, 421, 523-528.	2.6	58
16	Vibrational wave packet induced oscillations in two-dimensional electronic spectra. I. Experiments. <i>Journal of Chemical Physics</i> , 2010, 132, .	3.0	55
17	Center Line Slope Analysis in Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10893-10909.	2.5	51
18	Excitons and Disorder in Molecular Nanotubes: A 2D Electronic Spectroscopy Study and First Comparison to a Microscopic Model. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8179-8189.	2.5	49

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19	Electronic Double-Quantum Coherences and Their Impact on Ultrafast Spectroscopy: The Example of β -Carotene. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3366-3370.	4.6	49
20	Ultrafast photo-induced charge transfer unveiled by two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 204503.	3.0	49
21	Vibronic coupling explains the ultrafast carotenoid-to-bacteriochlorophyll energy transfer in natural and artificial light harvesters. <i>Journal of Chemical Physics</i> , 2015, 142, 212434.	3.0	48
22	Multidimensional spectroscopy of β -carotene: Vibrational cooling in the excited state. <i>Archives of Biochemistry and Biophysics</i> , 2009, 483, 219-223.	3.0	45
23	Terahertz radiation from bacteriorhodopsin reveals correlated primary electron and proton transfer processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6888-6893.	7.1	41
24	Compact phase-stable design for single- and double-quantum two-dimensional electronic spectroscopy. <i>Optics Letters</i> , 2009, 34, 3301.	3.3	41
25	Electronic ground state conformers of β -carotene and their role in ultrafast spectroscopy. <i>Chemical Physics Letters</i> , 2011, 506, 122-127.	2.6	40
26	The full dynamics of energy relaxation in large organic molecules: from photo-excitation to solvent heating. <i>Chemical Science</i> , 2019, 10, 4792-4804.	7.4	40
27	Enhancement of molecular modes by electronically resonant multipulse excitation: Further progress towards mode selective chemistry. <i>Journal of Chemical Physics</i> , 2006, 125, 061101.	3.0	38
28	Quantum control spectroscopy of vibrational modes: Comparison of control scenarios for ground and excited states in β -carotene. <i>Chemical Physics</i> , 2008, 350, 220-229.	1.9	35
29	Distinguishing Electronic and Vibronic Coherence in 2D Spectra by Their Temperature Dependence. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 404-407.	4.6	35
30	Vibronic energy relaxation approach highlighting deactivation pathways in carotenoids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19491-19499.	2.8	34
31	Finite pulse effects in single and double quantum spectroscopies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 430.	2.1	33
32	Control of excited-state population and vibrational coherence with shaped-resonant and near-resonant excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 074024.	1.5	31
33	Excitation-emission Fourier-transform spectroscopy based on a birefringent interferometer. <i>Optics Express</i> , 2017, 25, A483.	3.4	31
34	Carotenoid deactivation in an artificial light-harvesting complex via a vibrationally hot ground state. <i>Chemical Physics</i> , 2009, 357, 181-187.	1.9	28
35	Precise phasing of 2D-electronic spectra in a fully non-collinear phase-matching geometry. <i>Optics Express</i> , 2013, 21, 15904.	3.4	25
36	Anharmonic vibrational effects in linear and two-dimensional electronic spectra. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24752-24760.	2.8	25

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37	Explaining the Temperature Dependence of Spirilloxanthin TM s S* Signal by an Inhomogeneous Ground State Model. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6303-6310.	2.5	22
38	Time- and frequency-resolved fluorescence with a single TCSPC detector via a Fourier-transform approach. <i>Optics Express</i> , 2018, 26, 2270.	3.4	22
39	Ultrafast Energy Transfer Dynamics of a Bioinspired Dyad Molecule. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2678-2685.	2.6	21
40	Carotenoid-to-bacteriochlorophyll energy transfer through vibronic coupling in LH2 from <i>Phaeosprillum molischianum</i> . <i>Photosynthesis Research</i> , 2018, 135, 45-54.	2.9	20
41	Annihilation Dynamics of Molecular Excitons Measured at a Single Perturbative Excitation Energy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7776-7781.	4.6	17
42	Single-molecule excitation TM emission spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4064-4069.	7.1	16
43	Reduced Molecular Flavins as Single-Electron Reductants after Photoexcitation. <i>Journal of the American Chemical Society</i> , 2022, 144, 4721-4726.	13.7	16
44	The photoinduced cleavage of coumarin dimers studied with femtosecond and nanosecond two-photon excitation. <i>Chemical Physics Letters</i> , 2007, 439, 308-312.	2.6	15
45	Ultrafast multiphoton transient absorption of β^2 -carotene. <i>Chemical Physics</i> , 2010, 373, 38-44.	1.9	15
46	Activation of 2 TM Cyclohexenone by BF ₃ Coordination: Mechanistic Insights from Theory and Experiment. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10155-10163.	13.8	15
47	A General control mechanism of energy flow in the excited state of polyenic biochromophores. <i>Faraday Discussions</i> , 2011, 153, 213.	3.2	13
48	Interplay of exciton annihilation and transport in fifth order electronic spectroscopy. <i>Chemical Physics</i> , 2020, 528, 110433.	1.9	13
49	Recent advances of multiphoton absorption in metal TM organic frameworks. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6912-6934.	5.5	12
50	On the paradigm of coherent control: the phase-dependent light TM matter interaction in the shaping window. <i>New Journal of Physics</i> , 2009, 11, 105049.	2.9	11
51	The central role of the metal ion for photoactivity: Zn TM vs. Ni TM Mabiq. <i>Chemical Science</i> , 2021, 12, 7521-7532.	7.4	11
52	A quantitative study of coherent vibrational dynamics probed by heterodyned transient grating spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 85, 167-174.	2.2	10
53	Intraband dynamics and exciton trapping in the LH2 complex of <i>Rhodospseudomonas acidophila</i> . <i>Journal of Chemical Physics</i> , 2021, 154, 045102.	3.0	9
54	Effects of tunable excitation in carotenoids explained by the vibrational energy relaxation approach. <i>Photosynthesis Research</i> , 2018, 135, 55-64.	2.9	8

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55	A nitrophenyl-carbazole based push-pull linker as a building block for non-linear optical active coordination polymers: A structural and photophysical study. <i>Dyes and Pigments</i> , 2021, 186, 109012.	3.7	8
56	Dynamics of quantum wave packets in complex molecules traced by 2D coherent electronic correlation spectroscopy. <i>Procedia Chemistry</i> , 2011, 3, 105-117.	0.7	5
57	Anharmonic Molecular Motion Drives Resonance Energy Transfer in peri-Arylene Dyads. <i>Frontiers in Chemistry</i> , 2020, 8, 579166.	3.6	5
58	Activation of 2-oxocyclohexenone by BF ₃ Coordination: Mechanistic Insights from Theory and Experiment. <i>Angewandte Chemie</i> , 2021, 133, 10243-10251.	2.0	5
59	Understanding Carotenoid Dynamics via the Vibronic Energy Relaxation Approach. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3985-3994.	2.6	5
60	Time-domain photocurrent spectroscopy based on a common-path birefringent interferometer. <i>Review of Scientific Instruments</i> , 2020, 91, 123101.	1.3	4
61	Operando Study of Structure Degradation in Solid-State Dye-Sensitized Solar Cells with a TiO ₂ Photoanode Having Ordered Mesopore Arrays. <i>Solar Rrl</i> , 2022, 6, .	5.8	4
62	Achromatic frequency doubling of supercontinuum pulses for transient absorption spectroscopy. <i>Optics Express</i> , 2021, 29, 39042.	3.4	3
63	Correlated spectral fluctuations quantified by line shape analysis of fifth-order two-dimensional electronic spectra. <i>Journal of Chemical Physics</i> , 2022, 156, 084114.	3.0	3
64	Simulations of pump probe spectra of a molecular complex at high excitation intensity. <i>Chemical Physics</i> , 2019, 527, 110458.	1.9	2
65	Ultrafast bi-excitonic dynamics and annihilation in molecular and mesoscopic systems. <i>EPJ Web of Conferences</i> , 2019, 205, 06013.	0.3	2
66	Enhancement of Raman Modes in Complex Molecules by Coherent Control. <i>Springer Series in Chemical Physics</i> , 2007, , 303-305.	0.2	1
67	Visible Two-Dimensional Spectroscopy with sub-7 fs Pulses Uncovers Ultrafast Electron-Phonon Coupling Dynamics. , 2010, , .		0
68	Two-Dimensional Electronic Spectroscopy for Vibrational Wavepacket Analysis and Electronic Structure Determination. , 2012, , .		0
69	Ultrafast Charge Transfer Visualized by Two-Dimensional Electronic Spectroscopy. <i>EPJ Web of Conferences</i> , 2013, 41, 08019.	0.3	0
70	Simulating exciton migration and annihilation dynamics in higher order spectroscopies of a molecular trimer. <i>EPJ Web of Conferences</i> , 2019, 205, 06016.	0.3	0
71	Exciton-Exciton Annihilation as a Mechanism for Uphill Transfer in a Molecular Excitonic System. <i>EPJ Web of Conferences</i> , 2019, 205, 06017.	0.3	0
72	Single-Molecule Excitation-Emission Spectroscopy at Room Temperature Based on a Common-Path Interferometer. , 2019, , .		0

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73	Magnetic pulses enable multidimensional optical spectroscopy of dark states. <i>Journal of Chemical Physics</i> , 2020, 152, 084201.	3.0	0
74	Enhancement of Raman Modes in Complex Molecules by Coherent Control. , 2006, , .		0
75	Coherent control of the efficiency of an artificial light-harvesting complex. <i>Springer Series in Chemical Physics</i> , 2009, , 454-456.	0.2	0
76	Early Time Vibrationally Hot Ground-State Dynamics in \hat{I}^2 -Carotene Investigated with Pump-Degenerate Four-Wave Mixing (Pump-DFWM). <i>Springer Series in Chemical Physics</i> , 2009, , 442-444.	0.2	0
77	Coherent control of matter waves passing through a conical intersection in \hat{I}^2 -carotene. <i>Springer Series in Chemical Physics</i> , 2009, , 436-438.	0.2	0
78	Control of Excited-State Population and Vibrational Coherence with Shaped-Resonant and Near-Resonant Excitation. <i>Springer Series in Chemical Physics</i> , 2009, , 460-462.	0.2	0
79	Coherent Multidimensional Spectroscopies Refine the Energy Level Scheme of \hat{I}^2 -carotene. , 2010, , .		0
80	Coherent Control for Molecular Ultrafast Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 37-55.	0.3	0
81	The Role of Nuclear Modes in Coupled Electronic Systems: Quantum Coating, Vibronic Modulation, or Quantum-Dissipative Energy Flow?. , 2011, , .		0
82	Excitation-Emission Fluorescence Spectroscopy with Single Molecule Sensitivity Using a Common-Path Interferometer. , 2018, , .		0
83	Molecular annihilation dynamics measured in the perturbative regime of excitation. , 2020, , .		0