

Christopher G Elles

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,263
citations

279798

23
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	CONNECTING CHEMICAL DYNAMICS IN GASES AND LIQUIDS. Annual Review of Physical Chemistry, 2006, 57, 273-302.	10.8	128
2	Excitation-energy dependence of the mechanism for two-photon ionization of liquid H ₂ O and D ₂ O from 8.3 to 12.4 eV. Journal of Chemical Physics, 2006, 125, 044515.	3.0	108
3	Chasing charge localization and chemical reactivity following photoionization in liquid water. Journal of Chemical Physics, 2011, 135, 224510.	3.0	90
4	Excited state dynamics of liquid water: Insight from the dissociation reaction following two-photon excitation. Journal of Chemical Physics, 2007, 126, 164503.	3.0	74
5	Controlling the Excited-State Reaction Dynamics of a Photochromic Molecular Switch with Sequential Two-Photon Excitation. Journal of Physical Chemistry Letters, 2012, 3, 2995-3000.	4.6	63
6	Vibrational relaxation of CH ₃ I in the gas phase and in solution. Journal of Chemical Physics, 2004, 120, 6973-6979.	3.0	59
7	Electronic structure of liquid water from polarization-dependent two-photon absorption spectroscopy. Journal of Chemical Physics, 2009, 130, 084501.	3.0	57
8	Spectrally tailored narrowband pulses for femtosecond stimulated Raman spectroscopy in the range 330-750 nm. Optics Express, 2013, 21, 6866.	3.4	45
9	Cycloreversion Dynamics of a Photochromic Molecular Switch via One-Photon and Sequential Two-Photon Excitation. Journal of Physical Chemistry A, 2014, 118, 10011-10019.	2.5	45
10	Structural Rearrangement Accompanying the Ultrafast Electrocyclization Reaction of a Photochromic Molecular Switch. Journal of Physical Chemistry B, 2014, 118, 6915-6921.	2.6	44
11	Recombination Dynamics and Hydrogen Abstraction Reactions of Chlorine Radicals in Solution. Journal of Physical Chemistry A, 2005, 109, 4296-4302.	2.5	41
12	Vibrational relaxation of CH ₂ I ₂ in solution: Excitation level dependence. Journal of Chemical Physics, 2003, 118, 5587-5595.	3.0	39
13	Ultrafast Dynamics of Encapsulated Molecules Reveals New Insight on the Photoisomerization Mechanism for Azobenzenes. Journal of Physical Chemistry Letters, 2019, 10, 121-127.	4.6	36
14	Transient x-ray absorption spectroscopy of hydrated halogen atom. Journal of Chemical Physics, 2008, 128, 061102.	3.0	35
15	Ultrafast Spectroscopy of [Mn(CO) ₃] Complexes: Tuning the Kinetics of Light-Driven CO Release and Solvent Binding. Inorganic Chemistry, 2020, 59, 2178-2187.	4.0	34
16	Visualizing Excited-State Dynamics of a Diaryl Thiophene: Femtosecond Stimulated Raman Scattering as a Probe of Conjugated Molecules. Journal of Physical Chemistry Letters, 2016, 7, 2981-2988.	4.6	31
17	Two-photon absorption spectroscopy of <i>trans</i> -stilbene, <i>cis</i> -stilbene, and phenanthrene: Theory and experiment. Journal of Chemical Physics, 2017, 146, 144305.	3.0	28
18	Spatial confinement alters the ultrafast photoisomerization dynamics of azobenzenes. Chemical Science, 2020, 11, 9513-9523.	7.4	28

#	ARTICLE	IF	CITATIONS
19	Accurate Assignments of Excited-State Resonance Raman Spectra: A Benchmark Study Combining Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7937-7946.	2.5	26
20	Recombination and Reaction Dynamics Following Photodissociation of CH ₃ OCl in Solution. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10973-10979.	2.5	25
21	Carrier-envelope-phase stabilized terawatt class laser at 1 kHz with a wavelength tunable option. <i>Optics Express</i> , 2015, 23, 4563.	3.4	25
22	Reverse micelles solubilizing DMSO and DMSO/water mixtures. <i>Chemical Physics Letters</i> , 2000, 317, 624-630.	2.6	24
23	Two-Photon Excitation of <i>trans</i> -Stilbene: Spectroscopy and Dynamics of Electronically Excited States above S ₁ . <i>Journal of Physical Chemistry B</i> , 2015, 119, 9335-9344.	2.6	23
24	Probing Dynamics in Higher-Lying Electronic States with Resonance-Enhanced Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8308-8319.	2.5	23
25	Excited-state dynamics and efficient triplet formation in phenylthiophene compounds. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6211.	2.8	22
26	Two-Photon Activation of <i>p</i> -Hydroxyphenacyl Phototriggers: Toward Spatially Controlled Release of Diethyl Phosphate and ATP. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3178-3186.	2.6	21
27	Two-photon absorption spectroscopy of stilbene and phenanthrene: Excited-state analysis and comparison with ethylene and toluene. <i>Journal of Chemical Physics</i> , 2017, 146, 174102.	3.0	20
28	Ultrafast <i>trans</i> → <i>cis</i> Photoisomerization Dynamics of Alkyl-Substituted Stilbenes in a Supramolecular Capsule. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5061-5071.	2.5	16
29	Femtosecond Stimulated Raman Scattering from Triplet Electronic States: Experimental and Theoretical Study of Resonance Enhancements. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7720-7732.	2.5	9
30	Electronic Structure of Liquid Methanol and Ethanol from Polarization-Dependent Two-Photon Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5789-5804.	2.5	7
31	On the Discrepancy between Experimental and Calculated Raman Intensities for Conjugated Phenyl and Thiophene Derivatives. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4678-4689.	2.5	7
32	Benchmark Study of Ground-State Raman Spectra in Conjugated Molecules. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 612-620.	5.3	6
33	Absolute Cross Sections of Liquids from Broadband Stimulated Raman Scattering with Femtosecond and Picosecond Pulses. <i>Analytical Chemistry</i> , 2020, 92, 10686-10692.	6.5	6
34	Ultrafast Excited State Dynamics of Spatially Confined Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4681-4699.	2.5	6
35	Synthesis of Cycloheptatriene-Containing Azetidine Lactones. <i>Journal of Organic Chemistry</i> , 2022, 87, 15001-15010.	3.2	5
36	Transient Spectroscopy of 5,7-diiodo-3-butoxy-6-fluorone (<i>DIBF</i>). <i>Photochemistry and Photobiology</i> , 2014, 90, 335-337.	2.5	3

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37	Investigation of Fluorescence Emission from CdSe Nanorods in PMMA and P3HT/PMMA Films. Journal of Physical Chemistry C, 2013, 117, 18818-18828.	3.1	2
38	Electronic Structure of Liquid Alkanes: A Representative Case of Liquid Hexanes and Cyclohexane Studied Using Polarization-Dependent Two-Photon Absorption Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 7988-7999.	2.5	2