

G Barney Ellison

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8668496/publications.pdf>

Version: 2024-02-01

60
papers

5,343
citations

136740

32
h-index

138251

58
g-index

61
all docs

61
docs citations

61
times ranked

5852
citing authors

#	ARTICLE	IF	CITATIONS
1	A Conical Intersection Influences the Ground State Rearrangement of Fulvene to Benzene. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1429-1447.	1.1	6
2	Five Birds with One Stone: Photoelectron Photoion Coincidence Unveils Rich Phthalide Pyrolysis Chemistry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1738-1746.	1.1	15
3	The Threshold Photoelectron Spectrum of Fulvenone: A Reactive Ketene Derivative in Lignin Valorization. <i>ChemPhysChem</i> , 2020, 21, 2217-2222.	1.0	21
4	The Molecular Structure of gauche-1,3-Butadiene: Experimental Establishment of Nonplanarity. <i>Angewandte Chemie</i> , 2018, 130, 1839-1843.	1.6	10
5	The Molecular Structure of <i>gauche</i> -1,3-Butadiene: Experimental Establishment of Nonplanarity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1821-1825.	7.2	46
6	Thermal Decompositions of the Lignin Model Compounds: Salicylaldehyde and Catechol. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5911-5924.	1.1	20
7	Thermal Decomposition of Potential Ester Biofuels. Part I: Methyl Acetate and Methyl Butanoate. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4658-4677.	1.1	31
8	Active Thermochemical Tables: The Adiabatic Ionization Energy of Hydrogen Peroxide. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8799-8806.	1.1	33
9	Tabletop Femtosecond VUV Photoionization and PEPICO Detection of Microreactor Pyrolysis Products. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5280-5289.	1.1	8
10	Measuring flow profiles in heated miniature reactors with X-ray fluorescence spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4603-4610.	2.4	17
11	The thermal decomposition of the benzyl radical in a heated micro-reactor. II. Pyrolysis of the tropyli radical. <i>Journal of Chemical Physics</i> , 2016, 145, 014305.	1.2	28
12	An optically accessible pyrolysis microreactor. <i>Review of Scientific Instruments</i> , 2016, 87, 014101.	0.6	9
13	DSMC Simulations of a Photoionization Mass Spectrometer. , 2016, , .		2
14	Pyrolysis Mechanisms of Lignin Model Compounds Using a Heated Micro-Reactor. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 145-171.	0.4	6
15	Isomerization and Fragmentation of Cyclohexanone in a Heated Micro-Reactor. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12635-12647.	1.1	11
16	Pyrolysis of Cyclopentadienone: Mechanistic Insights from a Direct Measurement of Product Branching Ratios. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7222-7234.	1.1	23
17	The ionisation energy of cyclopentadienone: a photoelectron-photoion coincidence study. <i>Molecular Physics</i> , 2015, 113, 2350-2358.	0.8	16
18	The thermal decomposition of the benzyl radical in a heated micro-reactor. I. Experimental findings. <i>Journal of Chemical Physics</i> , 2015, 142, 044307.	1.2	46

#	ARTICLE	IF	CITATIONS
19	Pyrolysis Pathways of the Furanic Ether 2-Methoxyfuran. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9962-9977.	1.1	9
20	Chirped-pulse millimeter-wave spectroscopy for dynamics and kinetics studies of pyrolysis reactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15739-15751.	1.3	54
21	The properties of a micro-reactor for the study of the unimolecular decomposition of large molecules. <i>International Reviews in Physical Chemistry</i> , 2014, 33, 447-487.	0.9	129
22	Polarized Matrix Infrared Spectra of Cyclopentadienone: Observations, Calculations, and Assignment for an Important Intermediate in Combustion and Biomass Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2014, 118, 708-718.	1.1	27
23	Unimolecular thermal decomposition of dimethoxybenzenes. <i>Journal of Chemical Physics</i> , 2014, 140, 234302.	1.2	30
24	Chirped-Pulse Fourier Transform Microwave Spectroscopy Coupled with a Flash Pyrolysis Microreactor: Structural Determination of the Reactive Intermediate Cyclopentadienone. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2201-2207.	2.1	27
25	Theoretical Study of Reaction of Ketene with Water in the Gas Phase: Formation of Acetic Acid?. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10997-11005.	1.1	22
26	Acetic acid formation via the hydration of gas-phase ketene under ambient conditions. <i>Chemical Physics Letters</i> , 2013, 565, 1-4.	1.2	27
27	Pyrolysis of furan in a microreactor. <i>Journal of Chemical Physics</i> , 2013, 139, 124305.	1.2	63
28	Biomass pyrolysis: Thermal decomposition mechanisms of furfural and benzaldehyde. <i>Journal of Chemical Physics</i> , 2013, 139, 104310.	1.2	63
29	Oxidative Activity of Hydrogen on Nickel and Inconel. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	0.5	0
30	Thermal decomposition of CH ₃ CHO studied by matrix infrared spectroscopy and photoionization mass spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 137, 164308.	1.2	49
31	Unimolecular thermal decomposition of phenol and d ₅ -phenol: Direct observation of cyclopentadiene formation via cyclohexadienone. <i>Journal of Chemical Physics</i> , 2012, 136, 044309.	1.2	64
32	Thermal Decomposition Mechanisms of the Methoxyphenols: Formation of Phenol, Cyclopentadienone, Vinylacetylene, and Acetylene. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13381-13389.	1.1	80
33	The products of the thermal decomposition of CH ₃ CHO. <i>Journal of Chemical Physics</i> , 2011, 135, 014306.	1.2	43
34	Laser ablation with resonance-enhanced multiphoton ionization time-of-flight mass spectrometry for determining aromatic lignin volatilization products from biomass. <i>Review of Scientific Instruments</i> , 2011, 82, 033104.	0.6	37
35	Radical Chemistry in the Thermal Decomposition of Anisole and Deuterated Anisoles: An Investigation of Aromatic Growth. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9043-9056.	1.1	96
36	Thermal Decomposition of Furan Generates Propargyl Radicals. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8540-8547.	1.1	81

#	ARTICLE	IF	CITATIONS
37	Vacuum ultraviolet laser pulsed field ionization-photoelectron study of allyl radical CH ₂ CHCH ₂ . Journal of Chemical Physics, 2007, 126, 171101.	1.2	23
38	Unimolecular thermal fragmentation of ortho-benzyne. Journal of Chemical Physics, 2007, 126, 044312.	1.2	73
39	Propargyl Radical: Ab Initio Anharmonic Modes and the Polarized Infrared Absorption Spectra of Matrix-Isolated HCCCH ₂ . Journal of Physical Chemistry A, 2005, 109, 3812-3821.	1.1	55
40	Use of a Flowing Afterglow SIFT Apparatus To Study the Reactions of Ions with Organic Radicals. Journal of Physical Chemistry A, 2004, 108, 9733-9741.	1.1	20
41	Bond Dissociation Energies of Organic Molecules. Accounts of Chemical Research, 2003, 36, 255-263.	7.6	2,601
42	Chemistry of Atmospheres: An Introduction to the Chemistry of the Atmospheres of Earth, the Planets, and their Satellites, 3rd Edition (Wayne, Richard P.). Journal of Chemical Education, 2003, 80, 264.	1.1	0
43	Intense, hyperthermal source of organic radicals for matrix-isolation spectroscopy. Review of Scientific Instruments, 2003, 74, 3077-3086.	0.6	83
44	Photoelectron spectroscopy of HCCN ⁺ and HCNC ⁺ reveals the quasilinear triplet carbenes, HCCN and HCNC. Journal of Chemical Physics, 2002, 117, 4323-4339.	1.2	52
45	Polarized Infrared Absorption Spectra of Matrix-Isolated Allyl Radicals. Journal of Physical Chemistry A, 2001, 105, 7514-7524.	1.1	45
46	Identification of Adsorbed Phenyl (C ₆ H ₅) Groups on Metal Surfaces: Electron-Induced Dissociation of Benzene on Au(111). Journal of Physical Chemistry B, 2001, 105, 8387-8394.	1.2	128
47	Photochemistry of Matrix-Isolated and Thin Film Acid Chlorides: Quantum Yields and Product Structures. Journal of Physical Chemistry A, 1999, 103, 965-970.	1.1	5
48	Organic Peroxyl Radical Photolysis in the Near-Infrared: Effects on Tropospheric Chemistry. Journal of Physical Chemistry A, 1999, 103, 10169-10178.	1.1	41
49	Photoelectron spectroscopy, gas phase acidity, and thermochemistry of tert-butyl hydroperoxide: Mechanisms for the rearrangement of peroxy radicals. Journal of Chemical Physics, 1998, 109, 10293-10310.	1.2	71
50	Thermochemistry of the benzyl and allyl radicals and ions. International Journal of Mass Spectrometry and Ion Processes, 1996, 156, 109-131.	1.9	124
51	Fourier transform infrared absorption spectroscopy of jet-cooled radicals. Review of Scientific Instruments, 1995, 66, 2430-2441.	0.6	34
52	The C-H Bond Energy of Benzene. Journal of the American Chemical Society, 1995, 117, 2590-2599.	6.6	293
53	Photoelectron spectroscopy of CH ₂ N ⁺ . Journal of Chemical Physics, 1991, 94, 3517-3528.	1.2	41
54	Photoelectron spectroscopy of BH ⁺ ₃ . Journal of Chemical Physics, 1989, 90, 795-806.	1.2	28

#	ARTICLE	IF	CITATIONS
55	NH ₂ electron affinity. <i>Journal of Chemical Physics</i> , 1989, 91, 2762-2763.	1.2	61
56	The electronic states of Si ₂ and Si ⁺ as revealed by photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1987, 87, 5116-5124.	1.2	96
57	The photoelectron spectroscopy of HO ⁺ . <i>Journal of Chemical Physics</i> , 1985, 83, 5400-5406.	1.2	41
58	Laser-induced fluorescence studies of ion collisional excitation in a drift field: Rotational excitation of N ₂ in helium. <i>Journal of Chemical Physics</i> , 1983, 79, 5448-5456.	1.2	38
59	Photoelectron spectroscopy of HNO ⁺ and DNO ⁺ . <i>Journal of Chemical Physics</i> , 1983, 78, 6541-6558.	1.2	71
60	Electronic states of organic molecules. 3. Photoelectron spectra of cycloalkenes and methylenecycloalkanes. <i>Journal of the American Chemical Society</i> , 1976, 98, 7179-7182.	6.6	64