Ludovic Biennier

List of Publications by Year
in descending order

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Version: 2024-02-01

44 papers	1,467 citations	361413 20 h-index	315739 38 g-index
45 all docs	45 docs citations	45 times ranked	1383 citing authors

#	Article	IF	Citations
1	Kinetics and Branching for the Reactions of N₂⁺ with C₃H₄ Isomers at Low Temperatures and Implications for Titanâ€™s Atmosphere. ACS Earth and Space Chemistry, 2022, 6, 1227-1238.	2.7	0
2	A new instrument for kinetics and branching ratio studies of gas phase collisional processes at very low temperatures. Review of Scientific Instruments, 2021, 92, 014102.	1.3	9
3	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e791" altimg="si7.svg"><mml:mrow><mml:mn>3</mml:mn><mml:mo>.</mml:mo><mml:mn>4</mml:mn><mml:mspace width="1em" class="nbsp" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:mrow></mml:math> absorption in Titanâ€™s stratosphere: Contribution of ethane, propane, butane and complex hydrogenated organics. Icarus, 2020, 339, 113571.	2.5	11
4	Absorption Spectroscopy of Solid-Phase Fullerene C₆₀ between 1.65 and 2.78 Î¼m. ACS Earth and Space Chemistry, 2020, 4, 1540-1548.	2.7	0
5	Propane clusters in Titanâ€™s lower atmosphere: insights from a combined theory/laboratory study. Monthly Notices of the Royal Astronomical Society, 2019, 488, 676-684.	4.4	2
6	A mass-selective ion transfer line coupled with a uniform supersonic flow for studying ionâ€“molecule reactions at low temperatures. Journal of Chemical Physics, 2019, 150, 164201.	3.0	5
7	New investigation of the Î½3 Câ€“H stretching region of 12CH4 through the analysis of high temperature infrared emission spectra. Journal of Chemical Physics, 2018, 148, 134306.	3.0	17
8	Shock-wave processing of C₆₀ in hydrogen. Astronomy and Astrophysics, 2017, 599, A42.	5.1	15
9	Low Temperature Kinetics of the First Steps of Water Cluster Formation. Physical Review Letters, 2016, 116, 113401.	7.8	26
10	Low-Temperature Reactivity of C_{2n+1}N^{â€“} Anions with Polar Molecules. Journal of Physical Chemistry Letters, 2016, 7, 2957-2961.	4.6	12
11	Elusive anion growth in Titanâ€™s atmosphere: Low temperature kinetics of the C3N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:msup><mml:mrow /><mml:mo>â^’</mml:mo></mml:msup></mml:math> + HC3N reaction. Icarus, 2016, 271, 194-201.	2.5	14
12	Chemistry of nitrile anions in the interstellar medium. AIP Conference Proceedings, 2015, , .	0.4	1
13	Low temperature reaction kinetics of CNâ^’+HC3N and implications for the growth of anions in Titanâ€™s atmosphere. Icarus, 2014, 227, 123-131.	2.5	31
14	High temperature reaction kinetics of CN(v = 0) with C2H4 and C2H6 and vibrational relaxation of CN(v = 1) with Ar and He. Journal of Chemical Physics, 2013, 138, 124308.	3.0	17
15	Highâ€temperature kinetics of the reaction between CN and hydrocarbons using a novel highâ€enthalpy flow tube. International Journal of Chemical Kinetics, 2012, 44, 753-766.	1.6	10
16	Direct Infrared Absorption Spectroscopy of Benzene Dimer. Journal of Physical Chemistry A, 2011, 115, 11263-11268.	2.5	36
17	ON THE VOLATILE ENRICHMENTS AND HEAVY ELEMENT CONTENT IN HD189733b. Astrophysical Journal, 2011, 727, 77.	4.5	38
18	Insights into the role of polycyclic aromatic hydrocarbon condensation in haze formation in Jupiterâ€™s atmosphere. Astronomy and Astrophysics, 2011, 532, A40.	5.1	10

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19	Insights into the condensation of PAHsin the envelope of IRC +10216. EAS Publications Series, 2011, 46, 191-199.	0.3	1
20	POLYCYCLIC AROMATIC HYDROCARBONS AND THE DIFFUSE INTERSTELLAR BANDS: A SURVEY. Astrophysical Journal, 2011, 728, 154.	4.5	115
21	Exploring the Role of PAHs in the Formation of Soot: Pyrene Dimerization. Journal of Physical Chemistry Letters, 2010, 1, 2962-2967.	4.6	152
22	Characterization of circumstellar carbonaceous dust analogues produced by pyrolysis of acetylene in a porous graphite reactor. Carbon, 2009, 47, 3295-3305.	10.3	32
23	Understanding Reactivity at Very Low Temperatures: The Reactions of Oxygen Atoms with Alkenes. Science, 2007, 317, 102-105.	12.6	131
24	Laboratory measurements of the recombination of PAH ions with electrons: implications for the PAH charge state in interstellar clouds. Faraday Discussions, 2006, 133, 289.	3.2	20
25	Reaction of Anthracene with CH Radicals:â€‰ An Experimental Study of the Kinetics between 58 and 470 K. Journal of Physical Chemistry A, 2006, 110, 3132-3137.	2.5	31
26	Synchrotron SAXS ã€ˆin situã€‰ identification of three different size modes for soot nanoparticles in a diffusion flame. Carbon, 2006, 44, 1267-1279.	10.3	66
27	Flow dynamics of a pulsed planar expansion. Chemical Physics, 2006, 326, 445-457.	1.9	25
28	Modeling the influence of anodeâ€“cathode spacing in a pulsed discharge nozzle. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1442-1449.	2.9	8
29	Plasma in a pulsed discharge environment. IEEE Transactions on Plasma Science, 2005, 33, 554-555.	1.3	5
30	Recombination of polycyclic aromatic hydrocarbon photoions with electrons in a flowing afterglow plasma. Journal of Chemical Physics, 2005, 123, 104303.	3.0	13
31	Numerical investigation of the discharge characteristics of the pulsed discharge nozzle. Physical Review E, 2005, 71, 036409.	2.1	24
32	Multiplex integrated cavity output spectroscopy of cold PAH cations. Chemical Physics Letters, 2004, 387, 287-294.	2.6	53
33	Plasma structure in a pulsed discharge environment. Plasma Sources Science and Technology, 2003, 12, 295-301.	3.1	19
34	Plasma structure in a pulsed discharge environment. Plasma Sources Science and Technology, 2003, 12, 619-619.	3.1	4
35	Pulsed discharge nozzle cavity ringdown spectroscopy of cold polycyclic aromatic hydrocarbon ions. Journal of Chemical Physics, 2003, 118, 7863-7872.	3.0	114
36	Ultraviolet cavity ring-down spectroscopy of free radicals in etching plasmas. Chemical Physics Letters, 2000, 317, 631-636.	2.6	43

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37	Structure and rovibrational analysis of the [O2(1Î”g)v=0]2â†[O2(3Î£gâ¯)v=0]2 transition of the O2 dimer. Journal of Chemical Physics, 2000, 112, 6309-6321.	3.0	49
38	High resolution absorption spectroscopy of the Î½1=2â€“6 acetylenic overtone bands of propyne: Spectroscopy and dynamics. Journal of Chemical Physics, 1999, 111, 7888-7903.	3.0	42
39	Jet-discharge cavity ring-down spectroscopy of ionized polycyclic aromatic hydrocarbons: progress in testing the PAH hypothesis for the diffuse interstellar band problem. Chemical Physics Letters, 1999, 303, 165-170.	2.6	112
40	Rotationally resolved absorption spectrum of the O2 dimer in the visible range. Chemical Physics Letters, 1998, 288, 734-742.	2.6	47
41	High Resolution Spectrum of the (3â€“0) Band of theb1Î£+gâ€“X3Î£â¯gRed Atmospheric System of Oxygen. Journal of Molecular Spectroscopy, 1998, 188, 248-250.	1.2	12
42	The vibrational energy levels in acetylene. III. 12C2D2. Journal of Chemical Physics, 1998, 108, 1377-1389.	3.0	43
43	The absorption spectrum of 12C2H2 between 12800 and 18500cmâ¯1 II. Rotational analysis. Molecular Physics, 1997, 90, 807-816.	1.7	19
44	Local Mode Effects on the High-Resolution Overtone Spectrum of H2S around 12 500 cmâ¯1. Journal of Molecular Spectroscopy, 1997, 184, 288-299.	1.2	31