

# Baptiste Joalland

## List of Publications by Year in descending order

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38  
papers

655  
citations

516710

16  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

672  
citing authors

#	ARTICLE	IF	CITATIONS
1	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. II. Performance and applications for reaction dynamics. <i>Journal of Chemical Physics</i> , 2014, 141, 214203.	3.0	54
2	Product Branching in the Low Temperature Reaction of CN with Propyne by Chirped-Pulse Microwave Spectroscopy in a Uniform Supersonic Flow. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1599-1604.	4.6	49
3	Roaming dynamics in radical addition-elimination reactions. <i>Nature Communications</i> , 2014, 5, 4064.	12.8	47
4	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. I. The low-temperature flow system. <i>Journal of Chemical Physics</i> , 2014, 141, 154202.	3.0	46
5	Molecular Dynamics Simulations of Anharmonic Infrared Spectra of [SiPAH] <sup>+</sup> -Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5846-5854.	2.5	36
6	Photochemical Dynamics of Ethylene Cation C <sub>2</sub> H <sub>4</sub> <sup>+</sup> . <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1467-1471.	4.6	32
7	Signature of [SiPAH] <sup>+</sup> complexes in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2009, 494, 969-976.	5.1	29
8	Molecular dynamics simulations on [FePAH] <sup>+</sup> complexes of astrophysical interest: anharmonic infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3359.	2.8	28
9	Pulse-Programmable Magnetic Field Sweeping of Parahydrogen-Induced Polarization by Side Arm Hydrogenation. <i>Analytical Chemistry</i> , 2020, 92, 1340-1345.	6.5	28
10	Dynamics of Chlorine Atom Reactions with Hydrocarbons: Insights from Imaging the Radical Product in Crossed Beams. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9281-9295.	2.5	27
11	Parahydrogen-Induced Hyperpolarization of Gases. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17788-17797.	13.8	27
12	Clinical-Scale Production of Nearly Pure (>98.5%) Parahydrogen and Quantification by Benchtop NMR Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 3594-3601.	6.5	27
13	Parahydrogen-Induced Radio Amplification by Stimulated Emission of Radiation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8654-8660.	13.8	22
14	Note: A short-pulse high-intensity molecular beam valve based on a piezoelectric stack actuator. <i>Review of Scientific Instruments</i> , 2014, 85, 116107.	1.3	21
15	Low-Cost High-Pressure Clinical-Scale 50% Parahydrogen Generator Using Liquid Nitrogen at 77 K. <i>Analytical Chemistry</i> , 2021, 93, 8476-8483.	6.5	20
16	SABRE and PHIP pumped RASER and the route to chaos. <i>Journal of Magnetic Resonance</i> , 2021, 322, 106815.	2.1	19
17	Crossed-Beam Slice Imaging of Cl Reaction Dynamics with Butene Isomers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7589-7594.	2.5	16
18	Elusive anion growth in Titan's atmosphere: Low temperature kinetics of the C <sub>3</sub> N <sup>+</sup> + HC <sub>3</sub> N reaction. <i>Icarus</i> , 2016, 271, 194-201.	2.5	14

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19	Parahydrogen-Induced Radio Amplification by Stimulated Emission of Radiation. <i>Angewandte Chemie</i> , 2020, 132, 8732-8738.	2.0	14
20	Magnetic shielding of parahydrogen hyperpolarization experiments for the masses. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1180-1186.	1.9	13
21	Low-Temperature Reactivity of $C_{2n+1}N^+$ Anions with Polar Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2957-2961.	4.6	12
22	Direct versus Indirect Photodissociation of Isoxazole from Product Branching: A Chirped-Pulse Fourier Transform mm-Wave Spectroscopy/Pulsed Uniform Flow Investigation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7523-7531.	2.5	12
23	Background-Free Proton NMR Spectroscopy with Radiofrequency Amplification by Stimulated Emission Radiation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26298-26302.	13.8	12
24	Parahydrogen-Induced Polarization of Diethyl Ether Anesthetic. <i>Chemistry - A European Journal</i> , 2020, 26, 13621-13626.	3.3	11
25	Low-Flammable Parahydrogen-Polarized MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2021, 27, 2774-2781.	3.3	8
26	Scanning Nuclear Spin Level Anticrossings by Constant-Adiabaticity Magnetic Field Sweeping of Parahydrogen-Induced $^{13}C$ Polarization. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1925-1930.	4.6	8
27	Dynamics of Cl + propane, butanes revisited: a crossed beam slice imaging study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 414-420.	2.8	6
28	A mass-selective ion transfer line coupled with a uniform supersonic flow for studying ion-molecule reactions at low temperatures. <i>Journal of Chemical Physics</i> , 2019, 150, 164201.	3.0	5
29	Mixed transitions in the UV photodissociation of propargyl chloride revealed by slice imaging and multireference ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27474-27481.	2.8	3
30	Crossed-beam DC slice imaging of fluorine atom reactions with linear alkanes. <i>Journal of Chemical Physics</i> , 2015, 142, 184309.	3.0	2
31	Imaging the infrared multiphoton excitation and dissociation of propargyl chloride. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1528-1535.	2.8	2
32	Ethylene Intersystem Crossing Caught in the Act by Photofragment Sulfur Atoms. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1712-1719.	2.5	2
33	Background-Free Proton NMR Spectroscopy with Radiofrequency Amplification by Stimulated Emission Radiation. <i>Angewandte Chemie</i> , 0, , .	2.0	2
34	Parawasserstoff-Induzierte Hyperpolarisation von Gasen. <i>Angewandte Chemie</i> , 2020, 132, 17940-17949.	2.0	1
35	PAH-related Very Small Grains in photodissociation regions: implications from molecular simulations. <i>EAS Publications Series</i> , 2011, 46, 223-234.	0.3	0
36	Frontispiece: Parahydrogen-Induced Polarization of Diethyl Ether Anesthetic. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0

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37	Inentitelbild: Backgroundâ€Free Proton NMR Spectroscopy with Radiofrequency Amplification by Stimulated Emission Radiation (Angew. Chem. 50/2021). Angewandte Chemie, 2021, 133, 26206-26206.	2.0	0
38	Kinetics and Branching for the Reactions of N <sub>2</sub> <sup>+</sup> with C <sub>3</sub> H <sub>4</sub> Isomers at Low Temperatures and Implications for Titanâ€™s Atmosphere. ACS Earth and Space Chemistry, 2022, 6, 1227-1238.	2.7	0