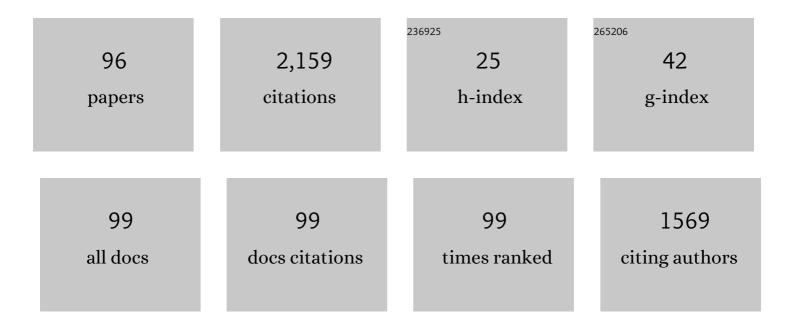
Christian Alcaraz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structural Elucidation of C ₆ H ₄ ^{+.} Using Chemical Reaction Monitoring: Charge Transfer Versus Bond Forming Reactions. ChemPhysChem, 2022, 23, .	2.1	4
2	Characterisation of the first electronically excited state of protonated acetylene C2H3+ by coincident imaging photoelectron spectroscopy. Molecular Physics, 2021, 119, e1825851.	1.7	4
3	The reactivity of methanimine radical cation (H2CNH+) and its isomer aminomethylene (HCNH2+) with methane. Chemical Physics Letters, 2021, 775, 138611.	2.6	7
4	The reactivity of methanimine radical cation (H2CNH•+) and its isomer aminomethylene (HCNH2•+) with C2H4. Chemical Physics Letters, 2021, 777, 138677.	2.6	4
5	Experimental and Computational Studies on the Reactivity of Methanimine Radical Cation (H2CNH+•) and its Isomer Aminomethylene (HCNH2+•) With C2H2. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	4
6	Study of the Reactivity of CH3COOH+• and COOH+ Ions with CH3NH2: Evidence of the Formation of New Peptide-like C(O)–N Bonds. Journal of Physical Chemistry A, 2021, 125, 10006-10020.	2.5	1
7	Photoelectron spectroscopy of boron-containing reactive intermediates using synchrotron radiation: BH ₂ , BH, and BF. Physical Chemistry Chemical Physics, 2020, 22, 1027-1034.	2.8	11
8	State-selected ion-molecule reactions with VUV synchrotron radiation : the O2 + + C3H6 case. Journal of Physics: Conference Series, 2020, 1412, 232009.	0.4	0
9	Vibronic structure of the cyanobutadiyne cation. I. VUV photoionization study of HC5N. Journal of Chemical Physics, 2019, 150, 244304.	3.0	1
10	State-Selected Reactivity of Carbon Dioxide Cations (CO2+) With Methane. Frontiers in Chemistry, 2019, 7, 537.	3.6	2
11	Valence shell threshold photoelectron spectroscopy of C ₃ H _x (<i>x</i> =) Tj ETQq1 1 0	.784314 r 2.8	gBT_/Overloc
12	Experimental and theoretical threshold photoelectron spectra of methylene. Journal of Chemical Physics, 2018, 149, 224304.	3.0	9
13	Diborene: Generation and Photoelectron Spectroscopy of an Inorganic Biradical. Journal of Physical Chemistry Letters, 2018, 9, 5921-5925.	4.6	19
14	EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF THE THRESHOLD PHOTOELECTRON SPECTRUM OF THE CH2 RADICAL. , 2018, , .		0
15	Communication: On the first ionization threshold of the C2H radical. Journal of Chemical Physics, 2017, 146, 011101.	3.0	8
16	Effects of collision energy and vibrational excitation of CH3+ cations on its reactivity with hydrocarbons: But-2-yne CH3CCCH3 as reagent partner. Journal of Chemical Physics, 2017, 147, 154302.	3.0	5
17	Synchrotron-based valence shell photoionization of CH radical. Journal of Chemical Physics, 2016, 144, 204307.	3.0	19
18	Experimental and ab initio characterization of HC3N+ vibronic structure. I. Synchrotron-based threshold photo-electron spectroscopy. Journal of Chemical Physics, 2016, 145, 234310.	3.0	5

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19	Is the Reaction of C ₃ N [–] with C ₂ H ₂ a Possible Process for Chain Elongation in Titan's Ionosphere?. Journal of Physical Chemistry A, 2016, 120, 5337-5347.	2.5	7
20	An experimental study of the reactivity of CNâ^' and C3Nâ^' anions with cyanoacetylene (HC3N). Icarus, 2016, 268, 242-252.	2.5	11
21	Selective Generation of the Radical Cation Isomers [CH ₃ CN] ^{•+} and [CH ₂ CNH] ^{•+} via VUV Photoionization of Different Neutral Precursors and Their Reactivity with C ₂ H ₄ . Journal of Physical Chemistry A, 2016, 120, 5041-5052.	2.5	9
22	FT-ICR studies of anionic reactions for the chemistry of planetary ionospheres. Journal of Physics: Conference Series, 2015, 635, 032112.	0.4	1
23	Anion Chemistry on Titan: systematic studies of the growth and stability of large negative ions. Journal of Physics: Conference Series, 2015, 635, 032086.	0.4	2
24	Effect of the Vibrational Excitation of CH ₃ ⁺ cations on their reactivity with CH ₄ . Journal of Physics: Conference Series, 2015, 635, 032110.	0.4	0
25	Photoionization spectroscopy of CH3C3N in the vacuum-ultraviolet range. Journal of Molecular Spectroscopy, 2015, 315, 206-216.	1.2	7
26	Reactions of State-Selected Atomic Oxygen lons O ⁺ (⁴ S, ² D,) Tj ETQq0 C) 0 rgBT /C	Overlock 10 Tf
27	Threshold photoelectron spectroscopy of unstable N-containing compounds: Resolution of ΔK subbands in HNCO+ and vibrational resolution in NCO+. Journal of Chemical Physics, 2015, 142, 184306.	3.0	9
28	Vibronic structure of the ² Î _u ground electronic state of dicyanoacetylene cation revisited by PFI-ZEKE photoelectron spectroscopy and <i>ab initio</i> calculations. Molecular Physics, 2015, 113, 3946-3954.	1.7	7
29	Experimental and theoretical study of the mechanism of formation of astrochemically important C2n+1Nâ^ anions via ion/molecule reactions. International Journal of Mass Spectrometry, 2014, 367, 1-9.	1.5	7
30	Reactivity and properties of dications generated by photoionization of 2,5-norbornadiene. International Journal of Mass Spectrometry, 2013, 336, 17-26.	1.5	5
31	CRITICAL REVIEW OF N, N ⁺ , N ⁺ ₂ , N ⁺⁺ , And N ⁺⁺ ₂ MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. Astrophysical Journal, Supplement Series, 2013, 204, 20.	7.7	118
32	The effect of autoionization on the N ₂ ⁺ X ² Σ _g ⁺ state vibrationally resolved photoelectron anisotropy parameters and branching ratios. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 095102.	1.5	8
33	Comprehensive vacuum ultraviolet photoionization study of the CF3• trifluoromethyl radical using synchrotron radiation. Journal of Chemical Physics, 2012, 136, 204304.	3.0	20
34	Reactions of Doubly Ionized Benzene with Nitrogen and Water: A Nitrogenâ€Mediated Entry into Superacid Chemistry. ChemPhysChem, 2012, 13, 2688-2698.	2.1	10
35	Anion chemistry on Titan: A possible route to large N-bearing hydrocarbons. Icarus, 2012, 219, 161-167.	2.5	22
36	Unimolecular dissociation of doubly ionized toluene and electron transfer between neutral toluene and its dication. Chemical Physics Letters, 2012, 534, 8-12.	2.6	12

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37	The photoionisation of propargylene and diazopropyne. Physical Chemistry Chemical Physics, 2011, 13, 17956.	2.8	15
38	Double ionization of cycloheptatriene and the reactions of the resulting C7Hn2+ dications (n = 6, 8) with xenon. Physical Chemistry Chemical Physics, 2011, 13, 18330.	2.8	20
39	Photoionization of Propargyl and Bromopropargyl Radicals: A Threshold Photoelectron Spectroscopic Study. Journal of Physical Chemistry A, 2011, 115, 2225-2230.	2.5	40
40	Selected Ion Flow Tube Study of Ion–Molecule Reactions of N ⁺ (³ P) and Kr ⁺ with C ₃ Hydrocarbons Propane, Propene, and Propyne. Journal of Physical Chemistry A, 2011, 115, 7310-7315.	2.5	10
41	Energetics and rearrangements of the isomeric picoline dications. International Journal of Mass Spectrometry, 2011, 308, 81-88.	1.5	3
42	Formation of Organoxenon Dications in the Reactions of Xenon with Dications Derived from Toluene. Chemistry - A European Journal, 2011, 17, 4012-4020.	3.3	22
43	Determination of the Absolute Photoionization Cross Sections of CH ₃ and I Produced from a Pyrolysis Source, by Combined Synchrotron and Vacuum Ultraviolet Laser Studies. Journal of Physical Chemistry A, 2010, 114, 3237-3246.	2.5	56
44	Threshold Photoelectron Spectroscopy of Cyclopropenylidene, Chlorocyclopropenylidene, and Their Deuterated Isotopomeresâ€. Journal of Physical Chemistry A, 2010, 114, 11269-11276.	2.5	25
45	Threshold Photoelectron Spectroscopy of the Methyl Radical Isotopomers, CH3, CH2D, CHD2 and CD3: Synergy between VUV Synchrotron Radiation Experiments and Explicitly Correlated Coupled Cluster Calculations. Journal of Physical Chemistry A, 2010, 114, 4818-4830.	2.5	88
46	State-specific reactions and autoionization dynamics of Ar2+ produced by synchrotron radiation. International Journal of Mass Spectrometry, 2009, 280, 119-127.	1.5	5
47	Growth Of Doubly Ionized C,H,N Compounds in the Presence of Methane. Journal of Physical Chemistry A, 2009, 113, 11204-11210.	2.5	17
48	The photoionisation of two phenylcarbenes and their diazirine precursors investigated using synchrotron radiation. Physical Chemistry Chemical Physics, 2009, 11, 5384.	2.8	13
49	Une ligne VUV au Serveur Laser du Centre Laser de l'Universit \tilde{A} © Paris-Sud. , 2009, , .		1
50	First and second ionization energies of 1,3,5-trimethylbenzene and 2,4,6-trimethylpyridine. Collection of Czechoslovak Chemical Communications, 2009, 74, 101-114.	1.0	9
51	Growth of Larger Hydrocarbons in the Ionosphere of Titan. Chemistry - A European Journal, 2008, 14, 4779-4783.	3.3	57
52	Sensitivity of a Titan ionospheric model to the ion-molecule reaction parameters. Planetary and Space Science, 2008, 56, 1644-1657.	1.7	56
53	O O C O + cation I: Characterization of its isomers and lowest electronic states. Journal of Chemical Physics, 2007, 127, 064312.	3.0	9
54	O O C O + cation. II. Its role during the atmospheric ion-molecule reactions. Journal of Chemical Physics, 2007, 127, 064313.	3.0	9

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55	Femtosecond Dynamics of the tert-Butyl Radical, t-C4H9. Journal of Physical Chemistry A, 2007, 111, 1771-1779.	2.5	24
56	Modelling dications in the diurnal ionosphere of Venus. Astronomy and Astrophysics, 2007, 465, 641-645.	5.1	35
57	Photoionization and dissociative photoionization of the allyl radical, C3H5. International Journal of Mass Spectrometry, 2007, 261, 227-233.	1.5	28
58	State-selected C2H2++C2H4 reaction: Controlled by dynamics or statistics?. International Journal of Mass Spectrometry, 2006, 249-250, 31-44.	1.5	6
59	Asymmetric Vacuum UV photolysis of the Amino Acid Leucine in the Solid State. Angewandte Chemie - International Edition, 2005, 44, 5630-5634.	13.8	121
60	A fast computation of the diurnal secondary ion production in the ionosphere of Titan. Icarus, 2005, 174, 285-288.	2.5	26
61	Prediction and modelling of doubly-charged ions in the Earth's upper atmosphere. Annales Geophysicae, 2005, 23, 781-797.	1.6	44
62	The VUV photochemistry of radicals: C3H3and C2H5. Physical Chemistry Chemical Physics, 2005, 7, 819-825.	2.8	41
63	Prediction of a N2++layer in the upper atmosphere of Titan. Geophysical Research Letters, 2005, 32, .	4.0	51
64	15N++ CD4and O++13CO2State-Selected Ionâ~'Molecule Reactions Relevant to the Chemistry of Planetary Ionospheresâ€. Journal of Physical Chemistry A, 2004, 108, 9998-10009.	2.5	49
65	SU5: a calibrated variable-polarization synchrotron radiation beam line in the vacuum-ultraviolet range. Applied Optics, 2004, 43, 1024.	2.1	86
66	Correction to "Prediction of a CO22+layer in the atmosphere of Mars― Geophysical Research Letters, 2003, 30, .	4.0	22
67	The vacuum ultraviolet photochemistry of the allyl radical investigated using synchrotron radiation. Journal of Chemical Physics, 2003, 118, 9077-9080.	3.0	46
68	Complete description of linear molecule photoionization achieved by vector correlations using the light of a single circular polarization. Journal of Chemical Physics, 2003, 118, 9653-9663.	3.0	76
69	Dissociative photoionization of N2in the 24–32 eV photon energy range. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2239-2251.	1.5	37
70	Prediction of a CO22+layer in the atmosphere of Mars. Geophysical Research Letters, 2002, 29, 104-1-104-4.	4.0	83
71	State-selected dissociation of dehydrovincamine alkaloid stereo-isomers. Physical Chemistry Chemical Physics, 2002, 4, 661-667.	2.8	7
72	Effects of ion excitation on charge transfer reactions of the Mars, Venus, and Earth ionospheres. Planetary and Space Science, 2002, 50, 877-887.	1.7	30

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73	Circular polarization of light by planet Mercury and enantiomorphism of its surface minerals. Origins of Life and Evolution of Biospheres, 2002, 32, 181-190.	1.9	13
74	Very high spectral resolution obtained with SU5: A vacuum ultraviolet undulator-based beamline at Super-ACO. Review of Scientific Instruments, 2001, 72, 1320.	1.3	70
75	Complete characterization of SU5:. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 453-457.	1.6	16
76	Dissociative photoionisation of acetylene-ethane van der Waals clusters. International Journal of Mass Spectrometry, 2000, 199, 201-209.	1.5	14
77	Commissioning of OPHELIE in the DC mode: an electromagnetic planar/helical crossed VUV undulator at Super-ACO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 569-586.	1.6	15
78	A Hidden Hydrogen Transfer in the Unimolecular Reaction of 1,2-Dimethoxyethane•+. Journal of Physical Chemistry A, 1999, 103, 5049-5054.	2.5	7
79	First polarization measurements of OPHELIE: a versatile polarization VUV undulator at Super-ACO. , 1999, 3773, 250.		7
80	OPHÉLIE: a variable-polarization electromagnetic undulator optimized for a VUV beamline at Super-ACO. Journal of Synchrotron Radiation, 1998, 5, 428-430.	2.4	0
81	High-flux and high-resolution spectroscopic facility in the VUV region at Super-ACO. Journal of Synchrotron Radiation, 1998, 5, 839-841.	2.4	1
82	A new VUV high resolution undulator-based beamline at Super-ACO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 404, 418-429.	1.6	18
83	Unimolecular Chemistry of the Gaseous Cyclopropylamine Radical Cation. Journal of the American Chemical Society, 1998, 120, 152-160.	13.7	33
84	Proton Tunneling in the Loss of Hydrogen Bromide from Energy-Selected Gas-Phase 2-Bromobutane Cations. Journal of Physical Chemistry A, 1998, 102, 1090-1097.	2.5	18
85	Threshold Photoionization Study of Fe(CO)5versus ab Initio Calculations. Journal of Physical Chemistry A, 1997, 101, 7907-7913.	2.5	24
86	Efficiency of High-nRydberg-State Stabilization in Pulsed-Field Ionization Zero-Kinetic-Energy Photoelectron Spectroscopy. Journal of Physical Chemistry A, 1997, 101, 6728-6735.	2.5	26
87	A versatile electromagnetic planar/helical crossed undulator optimized for the SU5 low energy/high resolution beamline at Super-ACO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 396, 237-250.	1.6	38
88	A state-selected study of charge transfer at collision energies below 4 eV using synchrotron radiation and guided beam techniques. Chemical Physics, 1996, 209, 177-194.	1.9	46
89	State-Selected C2H2+ Reactions with Methane at High Internal Energies. H+ and H- Transfer Reactions, Two New Channels in the C2H2+ A State Region. The Journal of Physical Chemistry, 1995, 99, 15523-15531.	2.9	13
90	State specific reactions of Ba(1S0) and Ba(1D2) with water and methanol. Journal of Chemical Physics, 1993, 98, 9595-9609.	3.0	27

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91	Chemiluminescent channels in reactions of Ba(1P1) with water, alcohols, and ethers. Journal of Chemical Physics, 1993, 99, 2533-2540.	3.0	18
92	Chemiluminescent reactions of electronically excited alkaline earth atoms. II. Energy dependence in Ba*+O2→BaO*+O. Journal of Chemical Physics, 1991, 94, 4913-4920.	3.0	12
93	Energy dependence of the chemiluminescent Ba(6s5d 1D2)+O2→BaO*+O reaction. Chemical Physics Letters, 1989, 164, 5-11.	2.6	12
94	The luminescent channels of the reactions of Ba(1P1) and Ba(1D2) with water. Chemical Physics Letters, 1989, 156, 191-196.	2.6	13
95	Collision energy dependence of the chemiluminescent reaction: Ba+N2O→BaO+N2. Journal of Chemical Physics, 1988, 89, 1945-1949.	3.0	11
96	Reaction of barium atoms with N2O clusters. Journal of Chemical Physics, 1988, 88, 3081-3085.	3.0	15