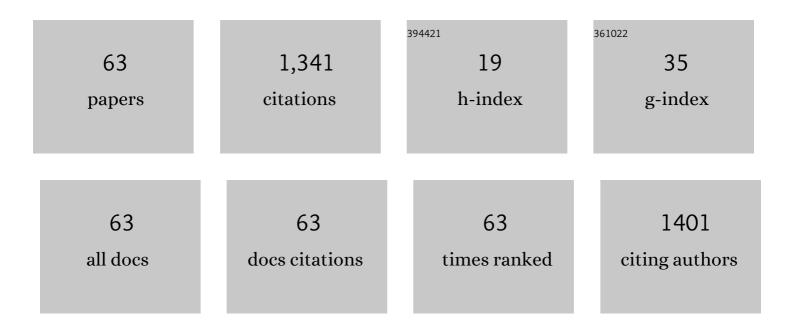
## List of Publications by Year in descending order

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ΙΔΝΙ ΖΔΡΚΔ

#	Article	IF	CITATIONS
1	Experimental study of the reaction of Oâ <sup>~</sup> ' ions with CO2 molecules with different ternary gases at temperatures relevant to the martian ionosphere. Icarus, 2021, 354, 114057.	2.5	0
2	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
3	Experimental study of the reaction of NO2â^' ions with CO2 molecules at temperatures and energies relevant to the Martian atmosphere. Icarus, 2020, 335, 113416.	2.5	3
4	State-Selected Reactivity of Carbon Dioxide Cations (CO2+) With Methane. Frontiers in Chemistry, 2019, 7, 537.	3.6	2
5	The reaction of C <sub>5</sub> N <sup>â^'</sup> with acetylene as a possible intermediate step to produce large anions in Titan's ionosphere. Physical Chemistry Chemical Physics, 2018, 20, 5377-5388.	2.8	4
6	Selected ion flow tube study of the reactions of H <sub>3</sub> O <sup>+</sup> and NO <sup>+</sup> with a series of primary alcohols in the presence of water vapour in support of selected ion flow tube mass spectrometry. Rapid Communications in Mass Spectrometry, 2017, 31, 437-446.	1.5	16
7	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
8	Is the Reaction of C <sub>3</sub> N <sup>–</sup> with C <sub>2</sub> H <sub>2</sub> a Possible Process for Chain Elongation in Titan's Ionosphere?. Journal of Physical Chemistry A, 2016, 120, 5337-5347.	2.5	7
9	An experimental study of the reactivity of CNâ^' and C3Nâ^' anions with cyanoacetylene (HC3N). Icarus, 2016, 268, 242-252.	2.5	11
10	A Pilot Study of Ion - Molecule Reactions at Temperatures Relevant to the Atmosphere of Titan. Origins of Life and Evolution of Biospheres, 2016, 46, 533-538.	1.9	3
11	Selective Generation of the Radical Cation Isomers [CH <sub>3</sub> CN] <sup>•+</sup> and [CH <sub>2</sub> CNH] <sup>•+</sup> via VUV Photoionization of Different Neutral Precursors and Their Reactivity with C <sub>2</sub> H <sub>4</sub> . Journal of Physical Chemistry A, 2016, 120, 5041-5052.	2.5	9
12	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
13	Reactions of State-Selected Atomic Oxygen lons O <sup>+</sup> ( <sup>4</sup> S, <sup>2</sup> D,) Tj ETQq1 1	0.784314 2.5	4 rgBT /Over
14	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
15	The Unimolecular Chemistry of Protonated and Deprotonated 2,2-Dinitroethene-1,1-Diamine (FOX-7) Studied by Tandem Mass Spectrometry and Computational Chemistry. European Journal of Mass Spectrometry, 2014, 20, 233-247.	1.0	4
16	Reactivity and properties of dications generated by photoionization of 2,5-norbornadiene. International Journal of Mass Spectrometry, 2013, 336, 17-26.	1.5	5
17	Infrared spectroscopy of trapped molecular dications below 4K. International Journal of Mass Spectrometry, 2013, 354-355, 204-210.	1.5	127
18	CRITICAL REVIEW OF N, N <sup>+</sup> , N <sup>+</sup> <sub>2</sub> , N <sup>++</sup> , And N <sup>++</sup> <sub>2</sub> MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. Astrophysical Journal, Supplement Series, 2013, 204, 20.	7.7	118

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19	Survival probability of slow ions colliding with room-temperature and heated surfaces of beryllium. Molecular Physics, 2012, 110, 1669-1673.	1.7	4
20	The oxidation of natural flavonoid quercetin. Chemical Communications, 2012, 48, 3433.	4.1	108
21	Reactions of Doubly Ionized Benzene with Nitrogen and Water: A Nitrogenâ€Mediated Entry into Superacid Chemistry. ChemPhysChem, 2012, 13, 2688-2698.	2.1	10
22	Anion chemistry on Titan: A possible route to large N-bearing hydrocarbons. Icarus, 2012, 219, 161-167.	2.5	22
23	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
24	On the stability of the bioactive flavonoids quercetin and luteolin under oxygen-free conditions. Analytical and Bioanalytical Chemistry, 2012, 402, 975-982.	3.7	89
25	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
26	Comparative Study of Mono- and Dinuclear Complexes of Late 3d-Metal Chlorides with <i>N,N</i> -Dimethylformamide in the Gas phase. Inorganic Chemistry, 2011, 50, 771-782.	4.0	28
27	Selected Ion Flow Tube Study of Ion–Molecule Reactions of N <sup>+</sup> ( <sup>3</sup> P) and Kr <sup>+</sup> with C <sub>3</sub> Hydrocarbons Propane, Propene, and Propyne. Journal of Physical Chemistry A, 2011, 115, 7310-7315.	2.5	10
28	Energetics and rearrangements of the isomeric picoline dications. International Journal of Mass Spectrometry, 2011, 308, 81-88.	1.5	3
29	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
30	Reduction from copper(II) to copper(I) upon collisional activation of (pyridine) <sub>2</sub> CuCl <sup>+</sup> . Journal of Mass Spectrometry, 2010, 45, 1246-1252.	1.6	49
31	Crossed-Beam Scattering Studies of Electron-Transfer Processes between the Dication CO <sub>2</sub> <sup>2+</sup> and Neutral CO <sub>2</sub> : Electronic States of Reactants and Products Involved. Journal of Physical Chemistry A, 2010, 114, 6463-6471.	2.5	10
32	Dynamics of Formation of Products D <sub>2</sub> CN <sup>+</sup> , DCN <sup>+</sup> , and CD <sub>3</sub> <sup>+</sup> in the Reaction of N <sup>+</sup> with CD <sub>4</sub> : A Crossed-Beam and Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 1384-1391.	2.5	6
33	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
34	State-specific reactions and autoionization dynamics of Ar2+ produced by synchrotron radiation. International Journal of Mass Spectrometry, 2009, 280, 119-127.	1.5	5
35	Surface-induced dissociation and chemical reactions of C <sub>2</sub> D <sub>4</sub> <sup>+</sup> on stainless steel, carbon (HOPC), and two different diamond surfaces. Journal of the American Society for Mass Spectrometry, 2009, 20, 927-938.	2.8	6
36	Correlations between Survival Probabilities and Ionization Energies of Slow Ions Colliding with Room-Temperature and Heated Surfaces of Carbon, Tungsten, and Beryllium. Journal of Physical Chemistry A, 2009, 113, 14838-14844.	2.5	9

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37	Reactivity of C2H5+ with Benzene: Formation of Ethylbenzenium Ions and Implications for Titan's Ionospheric Chemistry. Journal of Physical Chemistry A, 2009, 113, 11153-11160.	2.5	14
38	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
39	Scattering of very slow (3–10eV) hydrocarbon ions CD3+, CD4+, and CD5+ from room-temperature carbon (HOPG) surfaces. International Journal of Mass Spectrometry, 2008, 273, 35-47.	1.5	9
40	Collisions of slow hydrocarbon ions CD4+, CD5+, C2D4+, and C2H5+ with room temperature and heated tungsten surfaces. International Journal of Mass Spectrometry, 2008, 277, 229-235.	1.5	7
41	Competition of electron transfer, dissociation, and bond-forming processes in the reaction of the CO22+ dication with neutral CO2. Physical Chemistry Chemical Physics, 2008, 10, 5135.	2.8	27
42	Collisions of Slow Ions C <sub>3</sub> H <sub><i>n</i></sub> <sup>+</sup> and C <sub>3</sub> D <sub><i>n</i></sub> <sup>+</sup> ( <i>n</i> = 2â€"8) with Room Temperature Carbon Surfaces: Mass Spectra of Product Ions and the Ion Survival Probability. European Journal of Mass Spectrometry, 2008, 14, 335-343.	1.0	9
43	Scattering of Low-Energy (5-12 eV) C2D4•+ Ions from Room-Temperature Carbon Surfaces. Collection of Czechoslovak Chemical Communications, 2008, 73, 755-770.	1.0	5
44	Dissociative double photoionization of N2 using synchrotron radiation: Appearance energy of the N2+ dication. Journal of Chemical Physics, 2007, 126, 134310.	3.0	25
45	Bond-Forming Reactions of Dications with Molecules:  A Computational and Experimental Study of the Mechanisms for the Formation of HCF2+ from CF32+ and H2. Journal of Physical Chemistry A, 2006, 110, 2898-2905.	2.5	36
46	Reactivity of the CHBr2+ Dication toward Molecular Hydrogen. Journal of Physical Chemistry A, 2006, 110, 6447-6453.	2.5	19
47	Energetics of fragmentations of indene dication from photoionization experiments. Chemical Physics Letters, 2006, 423, 254-259.	2.6	19
48	Dynamics of chemical and charge transfer reactions of molecular dications: VI. International Journal of Mass Spectrometry, 2006, 255-256, 150-163.	1.5	11
49	Collisions of Slow Polyatomic Ions with Surfaces: $\hat{a}\in\infty$ Dissociation and Chemical Reactions of C2H2+ $\hat{a}\in\varphi$ , C2H3+, C2H4+ $\hat{a}\in\varphi$ , C2H5+, and Their Deuterated Variants C2D2+ $\hat{a}\in\varphi$ and C2D4+ $\hat{a}\in\varphi$ on Room-Temperature and Heated Carbon Surfaces. Journal of Physical Chemistry A, 2005, 109, 10208-10215.	2.5	18
50	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
51	Reactions of molecular dications: collision energy dependence of integral cross-sections of processes in CHCl2+ + Ar, D2 systems from guided beam studies. International Journal of Mass Spectrometry, 2003, 228, 487-495.	1.5	20
52	Internal energy effects in the reactivity of CO22+ doubly charged molecular ions with CO2 and CO. International Journal of Mass Spectrometry, 2003, 228, 507-516.	1.5	37
53	Dynamics of Chemical and Charge-Transfer Reactions of Molecular Dications. IV. Proton Transfer and Reactions of Dication Isomers in the CHCl2++ D2System. Journal of Physical Chemistry A, 2003, 107, 7347-7354.	2.5	20
54	Dynamics of chemical and charge-transfer reactions of molecular dications : Part V. An experimental and theoretical study of reactions between CHCl2+and Ar, Kr and Xe. Physical Chemistry Chemical Physics, 2003, 5, 2988-2995.	2.8	13

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55	Charge Transfer Between CO22+ and Ar or Ne at Collision Energies 3-10 eV. Collection of Czechoslovak Chemical Communications, 2003, 68, 178-188.	1.0	5
56	Collisions of Slow Polyatomic Ions with Surfaces:Â Dissociation and Chemical Reactions of CD5+, CD4+•, CD3+, and Their Isotopic Variants on Room-Temperature and Heated Carbon Surfacesâ€. Journal of Physical Chemistry B, 2002, 106, 8293-8301.	2.6	24
57	Energy Partitioning in Collisions of Slow Polyatomic Ions with Surfaces:Â Ethanol Molecular Ions on Surfaces Covered by Self-Assembled Monolayers (CF-SAM, CH-SAM, COOH-SAM)â€. Journal of Physical Chemistry A, 2002, 106, 10861-10869.	2.5	35
58	Dynamics of Chemical and Charge-Transfer Reactions of Molecular Dications:Â III. Beam Scattering and Total Cross Section Data for Processes in the System CO22++ D2. Journal of Physical Chemistry A, 2000, 104, 7294-7303.	2.5	47
59	A crossed beam scattering study of reactions in the system acetylene cation–acetylene: formation of C2HD+·in C2D2+· + C2H2 and formation of C4H3+ and C4H2+· in C2H2+· + C2H2 collisions. International Journal of Mass Spectrometry, 1999, 185-187, 195-205.	1.5	4
60	Title is missing!. European Physical Journal D, 1999, 49, 373-382.	0.4	5
61	Dynamics of Protonated Acetonitrile Formation in CD3CN+· + CH3CN Collisions: A Crossed-Beam Scattering Study. Collection of Czechoslovak Chemical Communications, 1998, 63, 1152-1160.	1.0	3
62	A DFT/HF study of the potential energy surface of protonated ethane C2H7+. International Journal of Mass Spectrometry and Ion Processes, 1997, 167-168, 675-687.	1.8	3
63	Dynamics of the Hydride Ion Transfer Reaction between CD3+ and CH4: A Crossed Beam Scattering Study. The Journal of Physical Chemistry, 1995, 99, 15595-15601.	2.9	16