Jan Zabka

List of Publications by Year
in descending order

63	1,341	394421 19	361022 35
papers	citations	h-index	g-index

63	63	63	1401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Infrared spectroscopy of trapped molecular dications below 4K. International Journal of Mass Spectrometry, 2013, 354-355, 204-210.	1.5	127
2	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
3	The oxidation of natural flavonoid quercetin. Chemical Communications, 2012, 48, 3433.	4.1	108
4	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
5	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
6	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
7	Reduction from copper(II) to copper(I) upon collisional activation of (pyridine)₂CuCl⁺. Journal of Mass Spectrometry, 2010, 45, 1246-1252.	1.6	49
8	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
9	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
10	Bond-Forming Reactions of Dications with Molecules:â€‰ 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
11	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
12	Comparative Study of Mono- and Dinuclear Complexes of Late 3d-Metal Chlorides withN,N-Dimethylformamide in the Gas phase. Inorganic Chemistry, 2011, 50, 771-782.	4.0	28
13	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
14	Dissociative double photoionization of N2 using synchrotron radiation: Appearance energy of the N2+ dication. Journal of Chemical Physics, 2007, 126, 134310.	3.0	25
15	Collisions of Slow Polyatomic Ions with Surfaces:Â Dissociation and Chemical Reactions of CD5+, CD4+â€¢, CD3+, and Their Isotopic Variants on Room-Temperature and Heated Carbon Surfacesâ€. Journal of Physical Chemistry B, 2002, 106, 8293-8301.	2.6	24
16	Reactions of State-Selected Atomic Oxygen Ions O⁺(⁴S, ²D,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	24
17	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
18	Anion chemistry on Titan: A possible route to large N-bearing hydrocarbons. Icarus, 2012, 219, 161-167.	2.5	22

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19	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
20	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
21	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
22	Reactivity of the CHBr2+ Dication toward Molecular Hydrogen. Journal of Physical Chemistry A, 2006, 110, 6447-6453.	2.5	19
23	Energetics of fragmentations of indene dication from photoionization experiments. Chemical Physics Letters, 2006, 423, 254-259.	2.6	19
24	Collisions of Slow Polyatomic Ions with Surfaces:â€‰ Dissociation and Chemical Reactions of C2H2+â€¢, C2H3+, C2H4+â€¢, C2H5+, and Their Deuterated Variants C2D2+â€¢ and C2D4+â€¢ on Room-Temperature and Heated Carbon Surfaces. Journal of Physical Chemistry A, 2005, 109, 10208-10215.	2.5	18
25	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
26	Selected ion flow tube study of the reactions of H₃O⁺ and NO⁺ 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
27	Reactivity of C2H5+ with Benzene: Formation of Ethylbenzenium Ions and Implications for Titanâ€™s Ionospheric Chemistry. Journal of Physical Chemistry A, 2009, 113, 11153-11160.	2.5	14
28	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
29	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
30	Dynamics of chemical and charge transfer reactions of molecular dications: VI. International Journal of Mass Spectrometry, 2006, 255-256, 150-163.	1.5	11
31	An experimental study of the reactivity of CNâ¯ and C3Nâ¯ anions with cyanoacetylene (HC3N). Icarus, 2016, 268, 242-252.	2.5	11
32	Crossed-Beam Scattering Studies of Electron-Transfer Processes between the Dication CO₂²⁺ and Neutral CO₂: Electronic States of Reactants and Products Involved. Journal of Physical Chemistry A, 2010, 114, 6463-6471.	2.5	10
33	Selected Ion Flow Tube Study of Ionâ€“Molecule Reactions of N⁺(³P) and Kr⁺ with C₃ Hydrocarbons Propane, Propene, and Propyne. Journal of Physical Chemistry A, 2011, 115, 7310-7315.	2.5	10
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	Scattering of very slow (3â€“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
36	Collisions of Slow Ions C₃H_n⁺ and C₃D_n⁺ (n = 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

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37	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
38	Selective Generation of the Radical Cation Isomers [CH₃CN]^{â€¢+} and [CH₂CNH]^{â€¢+} via VUV Photoionization of Different Neutral Precursors and Their Reactivity with C₂H₄. Journal of Physical Chemistry A, 2016, 120, 5041-5052.	2.5	9
39	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
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	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
42	Is the Reaction of C₃N^{â€“} with C₂H₂ a Possible Process for Chain Elongation in Titanâ€™s Ionosphere?. Journal of Physical Chemistry A, 2016, 120, 5337-5347.	2.5	7
43	Surface-induced dissociation and chemical reactions of C₂D₄⁺ on stainless steel, carbon (HOPG), and two different diamond surfaces. Journal of the American Society for Mass Spectrometry, 2009, 20, 927-938.	2.8	6
44	Dynamics of Formation of Products D₂CN⁺, DCN⁺, and CD₃⁺ in the Reaction of N⁺ with CD₄: A Crossed-Beam and Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 1384-1391.	2.5	6
45	Title is missing!. European Physical Journal D, 1999, 49, 373-382.	0.4	5
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	Reactivity and properties of dications generated by photoionization of 2,5-norbornadiene. International Journal of Mass Spectrometry, 2013, 336, 17-26.	1.5	5
48	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
49	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
50	Scattering of Low-Energy (5-12 eV) C2D4â€¢+ Ions from Room-Temperature Carbon Surfaces. Collection of Czechoslovak Chemical Communications, 2008, 73, 755-770.	1.0	5
51	A crossed beam scattering study of reactions in the system acetylene cationâ€“acetylene: formation of C2HD+Â·in C2D2+Â· + C2H2 and formation of C4H3+ and C4H2+Â· in C2H2+Â· + C2H2 collisions. International Journal of Mass Spectrometry, 1999, 185-187, 195-205.	1.5	4
52	Survival probability of slow ions colliding with room-temperature and heated surfaces of beryllium. Molecular Physics, 2012, 110, 1669-1673.	1.7	4
53	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
54	The reaction of C₅N^{â¯}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

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55	Experimental and Computational Studies on the Reactivity of Methanimine Radical Cation (H2CNH+â€¢) and its Isomer Aminomethylene (HCNH2+â€¢) With C2H2. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	4
56	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
57	Energetics and rearrangements of the isomeric picoline dications. International Journal of Mass Spectrometry, 2011, 308, 81-88.	1.5	3
58	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
59	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
60	Dynamics of Protonated Acetonitrile Formation in CD3CN+Â· + CH3CN Collisions: A Crossed-Beam Scattering Study. Collection of Czechoslovak Chemical Communications, 1998, 63, 1152-1160.	1.0	3
61	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
62	State-Selected Reactivity of Carbon Dioxide Cations (CO2+) With Methane. Frontiers in Chemistry, 2019, 7, 537.	3.6	2
63	Experimental study of the reaction of Oâ^' ions with CO2 molecules with different ternary gases at temperatures relevant to the martian ionosphere. Icarus, 2021, 354, 114057.	2.5	0