

# Vitali Zhaunerchyk

## List of Publications by Year in descending order

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36  
papers

418  
citations

687363

13  
h-index

794594

19  
g-index

36  
all docs

36  
docs citations

36  
times ranked

592  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution macromolecular crystallography at the FemtoMAX beamline with time-over-threshold photon detection. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 64-70.	2.4	0
2	IRMPD Spectroscopy of Homo- and Heterochiral Asparagine Proton-Bound Dimers in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7449-7456.	2.5	3
3	Resonant Auger electron-ion-coincidence spectroscopy of $N$ -methyltrifluoroacetamide: Site-specific fragmentation studies. <i>Physical Review A</i> , 2020, 102, .	2.5	7
4	Rotationally Resolved Excitation Spectra Measured by Slow Electron Detachment from $Si^{2+}$ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5199-5203.	4.6	0
5	Structure of Proton-Bound Methionine and Tryptophan Dimers in the Gas Phase Investigated with IRMPD Spectroscopy and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2408-2415.	2.5	11
6	Theoretical studies of infrared signatures of proton-bound amino acid dimers with homochiral and heterochiral moieties. <i>Chirality</i> , 2020, 32, 359-369.	2.6	8
7	The Fragmentation Dynamics of Simple Organic Molecules of Astrochemical Interest Interacting with VUV Photons. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1862-1872.	2.7	3
8	Competition between folded and extended structures of alanylalanine (Ala-Ala) in a molecular beam. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14126-14132.	2.8	7
9	Clustering of atomic displacement parameters in bovine trypsin reveals a distributed lattice of atoms with shared chemical properties. <i>Scientific Reports</i> , 2019, 9, 19281.	3.3	7
10	Conformational Preferences of Isolated Glycylglycine (Gly-Gly) Investigated with IRMPD-VUV Action Spectroscopy and Advanced Computational Approaches. <i>Journal of Physical Chemistry A</i> , 2019, 123, 862-872.	2.5	10
11	Investigating core-excited states of nitrosyl chloride (ClNO) and their break-up dynamics following Auger decay. <i>Journal of Chemical Physics</i> , 2018, 149, 164305.	3.0	5
12	Single Photon Thermal Ionization of $C^{60}$ . <i>Physical Review Letters</i> , 2017, 118, 103001.	7.8	17
13	Far-infrared amide IV-VI spectroscopy of isolated 2- and 4-Methylacetanilide. <i>Journal of Chemical Physics</i> , 2016, 145, 104309.	3.0	11
14	NEXAFS spectroscopy and site-specific fragmentation of <i>N,N</i> -methylformamide, <i>N,N</i> -dimethylformamide, and <i>N,N</i> -dimethylacetamide. <i>Journal of Chemical Physics</i> , 2016, 144, 244310.	3.0	12
15	A Study of $H_2O_2$ with Threshold Photoelectron Spectroscopy (TPES) and Electronic Structure Calculations: Redetermination of the First Adiabatic Ionization Energy (AIE). <i>Journal of Physical Chemistry A</i> , 2016, 120, 5220-5229.	2.5	5
16	Far-infrared spectra of the tryptamine A conformer by IR-UV ion gain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32116-32124.	2.8	12
17	Infrared Action Spectroscopy of Low-Temperature Neutral Gas-Phase Molecules of Arbitrary Structure. <i>Physical Review Letters</i> , 2016, 117, 118101.	7.8	14
18	Mechanisms of site-specific photochemistry following core-shell ionization of chemically inequivalent carbon atoms in acetaldehyde (ethanal). <i>Journal of Chemical Physics</i> , 2016, 145, 124302.	3.0	10

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19	Far-Infrared Signatures of Hydrogen Bonding in Phenol Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1238-1243.	4.6	21
20	Aminophenol isomers unraveled by conformer-specific far-IR action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6275-6283.	2.8	19
21	Experimental and theoretical XPS and NEXAFS studies of N-methylacetamide and N-methyltrifluoroacetamide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2210-2218.	2.8	16
22	Complete dissociation branching fractions and Coulomb explosion dynamics of SO <sub>2</sub> induced by excitation of O 1s pre-edge resonances. <i>Journal of Chemical Physics</i> , 2015, 143, 134302.	3.0	4
23	NEXAFS and XPS studies of nitrosyl chloride. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9040-9048.	2.8	22
24	Multimode dynamics in a short-pulse THz free electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	8
25	Selectivity in fragmentation of N-methylacetamide after resonant K-shell excitation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15231.	2.8	24
26	Experimental Studies of H <sup>13</sup> CO <sup>+</sup> Recombining with Electrons at Energies between 2â€“50â€‰000 meV. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6034-6049.	2.5	10
27	Dissociative Recombination of CH <sub>4</sub> <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9999-10005.	2.5	9
28	Formation of Highly Rovibrationally Excited Ammonia from Dissociative Recombination of NH <sub>4</sub> <sup>+</sup> . <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2519-2523.	4.6	3
29	Selective amplification of the lower-frequency branch via stimulated super-radiance in a waveguided free electron laser oscillator driven by short electron bunches. <i>Applied Physics Letters</i> , 2010, 97, 231109.	3.3	18
30	Dissociative recombination of the acetaldehyde cation, CH <sub>3</sub> CHO <sup>+</sup> . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11670.	2.8	8
31	Investigation into the vibrational yield of OH products in the OH+H+H channel arising from the dissociative recombination of H <sub>3</sub> O <sup>+</sup> . <i>Journal of Chemical Physics</i> , 2009, 130, 214302.	3.0	15
32	Multiple Explosion Pathways of the Deuterated Benzene Trication in 9-fs Intense Laser Fields. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2254-2260.	2.5	27
33	Dissociative recombination of fully deuterated protonated acetonitrile, CD <sub>3</sub> CND <sup>+</sup> : product branching fractions, absolute cross section and thermal rate coefficient. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4014.	2.8	33
34	Dissociative recombination of the deuterated acetaldehyde ion, CD <sub>3</sub> CDO <sup>+</sup> : product branching fractions, absolute cross sections and thermal rate coefficient. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2856-2861.	2.8	4
35	Investigating the breakup dynamics of dihydrogen sulfide ions recombining with electrons. <i>Journal of Chemical Physics</i> , 2005, 122, 224314.	3.0	15
36	Dissociative recombination study of Na <sup>+</sup> (D <sub>2</sub> O) in a storage ring. <i>Journal of Chemical Physics</i> , 2004, 121, 10483-10488.	3.0	20