

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	Dissociative recombination of fully deuterated protonated acetonitrile, CD ₃ CND ⁺ : product branching fractions, absolute cross section and thermal rate coefficient. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4014.	2.8	33
2	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
3	Selectivity in fragmentation of N-methylacetamide after resonant K-shell excitation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15231.	2.8	24
4	NEXAFS and XPS studies of nitrosyl chloride. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9040-9048.	2.8	22
5	Far-Infrared Signatures of Hydrogen Bonding in Phenol Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1238-1243.	4.6	21
6	Dissociative recombination study of Na ⁺ (D ₂ O) in a storage ring. <i>Journal of Chemical Physics</i> , 2004, 121, 10483-10488.	3.0	20
7	Aminophenol isomers unraveled by conformer-specific far-IR action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6275-6283.	2.8	19
8	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
9	Single Photon Thermal Ionization of C^{17} . <i>Physical Review Letters</i> , 2017, 118, 103001.	7.8	17
10	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
11	Investigating the breakup dynamics of dihydrogen sulfide ions recombining with electrons. <i>Journal of Chemical Physics</i> , 2005, 122, 224314.	3.0	15
12	Investigation into the vibrational yield of OH products in the OH+H+H channel arising from the dissociative recombination of H ₃ O ⁺ . <i>Journal of Chemical Physics</i> , 2009, 130, 214302.	3.0	15
13	Infrared Action Spectroscopy of Low-Temperature Neutral Gas-Phase Molecules of Arbitrary Structure. <i>Physical Review Letters</i> , 2016, 117, 118101.	7.8	14
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	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
16	Far-infrared amide IV-VI spectroscopy of isolated 2- and 4-Methylacetanilide. <i>Journal of Chemical Physics</i> , 2016, 145, 104309.	3.0	11
17	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
18	Experimental Studies of H ¹³ CO ⁺ Recombining with Electrons at Energies between 20-50 eV. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6034-6049.	2.5	10

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19	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
20	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
21	Dissociative Recombination of CH ₄ ⁺ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9999-10005.	2.5	9
22	Dissociative recombination of the acetaldehyde cation, CH ₃ CHO ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11670.	2.8	8
23	Multimode dynamics in a short-pulse THz free electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	8
24	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
25	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
26	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
27	Resonant Auger electron-ion-coincidence spectroscopy of N -methyltrifluoroacetamide: Site-specific fragmentation studies. <i>Physical Review A</i> , 2020, 102, .	2.5	7
28	A Study of H ₂ O 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
29	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
30	Dissociative recombination of the deuterated acetaldehyde ion, CD ₃ CDO ⁺ : product branching fractions, absolute cross sections and thermal rate coefficient. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2856-2861.	2.8	4
31	Complete dissociation branching fractions and Coulomb explosion dynamics of SO ₂ induced by excitation of O 1s pre-edge resonances. <i>Journal of Chemical Physics</i> , 2015, 143, 134302.	3.0	4
32	Formation of Highly Rovibrationally Excited Ammonia from Dissociative Recombination of NH ₄ ⁺ . <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2519-2523.	4.6	3
33	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
34	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
35	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
36	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