

Michele Alagia

List of Publications by Year in descending order

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114
papers

3,632
citations

101496

36
h-index

149623

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116
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116
docs citations

116
times ranked

2477
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant Auger electron-ion-coincidence spectroscopy of N -methyltrifluoroacetamide: Site-specific fragmentation studies. <i>Physical Review A</i> , 2020, 102, .	1.0	7
2	Photoionization Dynamics of the Tetraoxo Complexes OsO_4 and RuO_4 . <i>Inorganic Chemistry</i> , 2020, 59, 7274-7282.	1.9	2
3	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.	1.2	3
4	Angular Distribution of Ion Products in the Double Photoionization of Propylene Oxide. <i>Frontiers in Chemistry</i> , 2019, 7, 621.	1.8	6
5	Anisotropic forces and molecular dynamics. <i>Rendiconti Lincei</i> , 2018, 29, 179-189.	1.0	1
6	Double photoionization of propylene oxide: A coincidence study of the ejection of a pair of valence-shell electrons. <i>Journal of Chemical Physics</i> , 2018, 148, 114302.	1.2	13
7	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.	1.2	5
8	Double Photoionization of Simple Molecules of Astrochemical Interest. <i>Lecture Notes in Computer Science</i> , 2018, , 746-762.	1.0	2
9	Single Photon Thermal Ionization of C . <i>Physical Review Letters</i> , 2017, 118, 103001.	2.9	17
10	Time-Resolved Measurement of Interatomic Coulombic Decay Induced by Two-Photon Double Excitation of Ne . <i>Physical Review Letters</i> , 2017, 118, 033202.	2.9	32
11	Application of Matched-Filter Concepts to Unbiased Selection of Data in Pump-Probe Experiments with Free Electron Lasers. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 621.	1.3	1
12	Molecular Fragmentation of Acetylene by VUV Double Photoionization. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	2
13	Molecular Dications in Planetary Atmospheric Escape. <i>Atmosphere</i> , 2016, 7, 112.	1.0	26
14	NEXAFS spectroscopy and site-specific fragmentation of N -methylformamide, N,N -dimethylformamide, and N,N -dimethylacetamide. <i>Journal of Chemical Physics</i> , 2016, 144, 244310.	1.2	12
15	Angular and energy distributions of fragment ions in dissociative double photoionization of acetylene molecules in the 31.9-50.0 eV photon energy range. <i>Journal of Chemical Physics</i> , 2016, 145, 114308.	1.2	13
16	Slow Interatomic Coulombic Decay of Multiply Excited Neon Clusters. <i>Physical Review Letters</i> , 2016, 117, 276806.	2.9	24
17	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.	1.1	5
18	The escape of O^+ ions from the atmosphere: An explanation of the observed ion density profiles on Mars. <i>Chemical Physics Letters</i> , 2016, 666, 1-6.	1.2	30

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19	Experimental and theoretical XPS and NEXAFS studies of N-methylacetamide and N-methyltrifluoroacetamide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2210-2218.	1.3	16
20	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.	1.2	4
21	Interatomic Coulombic Decay Processes after Multiple Valence Excitations in Ne Clusters. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112067.	0.3	0
22	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 538-543.	1.0	46
23	NEXAFS and XPS studies of nitrosyl chloride. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9040-9048.	1.3	22
24	Angular Distributions of Fragment Ions Produced by Coulomb Explosion of Simple Molecular Dications of Astrochemical Interest. <i>Lecture Notes in Computer Science</i> , 2015, , 291-307.	1.0	4
25	Soft X-ray absorption spectroscopy of Ar ₂ and ArNe dimers and small Ar clusters. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22160-22169.	1.3	5
26	Metastable fragment production at the C 1s and O 1s edges of the CO ₂ molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 155101.	0.6	3
27	Kinetic Energy Release in molecular dications fragmentation after VLIV and ELIV ionization and escape from planetary atmospheres. <i>Planetary and Space Science</i> , 2014, 99, 149-157.	0.9	49
28	High resolution NEXAFS of perylene and PTCDI: a surface science approach to molecular orbital analysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14834.	1.3	28
29	Selectivity in fragmentation of N-methylacetamide after resonant K-shell excitation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15231.	1.3	24
30	The role of the partner atom and resonant excitation energy in ICD in rare gas dimers. <i>Journal of Physics: Conference Series</i> , 2014, 488, 022015.	0.3	0
31	The Escape Probability of Some Ions from Mars and Titan Ionospheres. <i>Lecture Notes in Computer Science</i> , 2014, , 554-570.	1.0	9
32	Production of ions at high energy and its role in extraterrestrial environments. <i>Rendiconti Lincei</i> , 2013, 24, 53-65.	1.0	45
33	The soft X-ray absorption spectrum of the allyl free radical. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1310-1318.	1.3	53
34	The Role of the Partner Atom and Resonant Excitation Energy in Interatomic Coulombic Decay in Rare Gas Dimers. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1797-1801.	2.1	41
35	A modular end-station for atomic, molecular, and cluster science at the low density matter beamline of FERMI@Elettra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164007.	0.6	78
36	C=C bond unsaturation degree in monosubstituted ferrocenes for molecular electronics investigated by a combined near-edge x-ray absorption fine structure, x-ray photoemission spectroscopy, and density functional theory approach. <i>Journal of Chemical Physics</i> , 2012, 136, 134308.	1.2	6

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37	Angular and energy distribution of fragment ions in dissociative double photoionization of acetylene molecules at 39 eV. <i>Journal of Chemical Physics</i> , 2012, 136, 204302.	1.2	51
38	Lifetime and kinetic energy release of metastable dications dissociation. <i>Chemical Physics</i> , 2012, 398, 134-141.	0.9	31
39	X-ray emission photoion coincidence spectroscopy of the CO ₂ molecule at the O 1s edge. <i>Chemical Physics Letters</i> , 2012, 531, 252-256.	1.2	4
40	A velocity map imaging apparatus for gas phase studies at FERMI@Elettra. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 284, 69-73.	0.6	11
41	Dissociative double photoionization of benzene molecules in the 26-33 eV energy range. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8245.	1.3	41
42	The valence electronic structure and conformational flexibility of epichlorohydrin. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12517.	1.3	5
43	Dissociative double photoionization of singly deuterated benzene molecules in the 26-33 eV energy range. <i>Journal of Chemical Physics</i> , 2011, 135, 144304.	1.2	34
44	O 1s excitation and ionization processes in the CO ₂ molecule studied via detection of low-energy fluorescence emission. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 165103.	0.6	7
45	Experimental study of linear magnetic dichroism in photoionization satellite transitions of atomic rubidium. <i>Physical Review A</i> , 2011, 84, .	1.0	2
46	Photoionization of laser-excited caesium atoms above the 4d ionization threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 215001.	0.6	4
47	Dissociative double photoionization of CO ₂ molecules in the 36-49 eV energy range: angular and energy distribution of ion products. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5389.	1.3	43
48	Core level absorption of laser-excited Rb and Cs atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 175001.	0.6	3
49	Excitation of S ₁ and S ₃ Metastable Helium Atoms to Doubly Excited States. <i>Physical Review Letters</i> , 2009, 102, 153001.	2.9	8
50	Double Photoionization of CO ₂ Molecules in the 34-50 eV Energy Range. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14755-14759.	1.1	48
51	Determination of structural parameters from advanced molecular electronic spectroscopy: The double ionization of nitrous oxide by synchrotron radiation. <i>Rendiconti Lincei</i> , 2008, 19, 215-221.	1.0	3
52	Pump-probe studies of autoionizing states of noble gases combining laser and synchrotron radiation - The Rydberg states of neon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 502-508.	0.7	17
53	Symmetry breaking effect in the ferrocene electronic structure by hydrocarbon-monosubstitution: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2008, 128, 154315.	1.2	18
54	The umbrella motion of core-excited CH ₃ and CD ₃ methyl radicals. <i>Journal of Chemical Physics</i> , 2008, 128, 044302.	1.2	7

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55	Photoemission study of ferrocenes: insights into the electronic structure of Si-based hybrid materials. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052069.	0.3	1
56	Spin-orbit-activated interchannel coupling in the 3d photoionization of barium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 4005-4012.	0.6	3
57	Anisotropy of the angular distribution of fragment ions in dissociative double photoionization of N ₂ O molecules in the 30-50eV energy range. <i>Journal of Chemical Physics</i> , 2007, 126, 201101.	1.2	37
58	Probing the potential energy surface by high-resolution x-ray absorption spectroscopy: The umbrella motion of the core-excited C_{1s} radical. <i>Physical Review A</i> , 2007, 76, .	1.0	24
59	x-ray-emission threshold-electron coincidence spectrum of K_{α} -edge CO_2 radical. <i>Physical Review A</i> , 2007, 76, .	1.0	4
60	Electronic structure of copper phthalocyanine: An experimental and theoretical study of occupied and unoccupied levels. <i>Journal of Chemical Physics</i> , 2007, 126, 124709.	1.2	106
61	Double photoionization of N ₂ O molecules in the 28-40eV energy range. <i>Chemical Physics Letters</i> , 2006, 432, 398-402.	1.2	44
62	Observation of the spin-orbit activated interchannel coupling in the 3d photoionization of caesium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 765-771.	0.6	14
63	Resonant Auger spectroscopy of metastable molecular oxygen. <i>Physical Review A</i> , 2006, 73, .	1.0	1
64	Double Excitations of Helium in Weak Static Electric Fields. <i>Physical Review Letters</i> , 2006, 96, 043002.	2.9	16
65	Magnetic-Field Induced Enhancement in the Fluorescence Yield Spectrum of Doubly Excited States in Helium. <i>Physical Review Letters</i> , 2006, 97, 253002.	2.9	9
66	The double photoionization of hydrogen iodide molecules. <i>Journal of Chemical Physics</i> , 2006, 124, 204318.	1.2	22
67	Effect of electric fields on the decay branching ratio of Pe_1 doubly excited states in helium measured by time-resolved fluorescence. <i>Physical Review A</i> , 2006, 74, .	1.0	8
68	The resonant 4d photoemission spectrum of atomic cesium. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 67-70.	0.8	5
69	Valence photoionization dynamics in circular dichroism of chiral free molecules: The methyl-oxirane. <i>Journal of Chemical Physics</i> , 2005, 122, 244303.	1.2	89
70	Core level ionization dynamics in small molecules studied by x-ray-emission threshold-electron coincidence spectroscopy. <i>Physical Review A</i> , 2005, 71, .	1.0	36
71	Core-shell photoabsorption and photoelectron spectra of gas-phase pentacene: Experiment and theory. <i>Journal of Chemical Physics</i> , 2005, 122, 124305.	1.2	83
72	Circular dichroism in photoelectron spectroscopy of free chiral molecules: Experiment and theory on methyl-oxirane. <i>Physical Review A</i> , 2004, 70, .	1.0	78

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73	Low-lying electronic states of HBr ₂ ⁺ . Journal of Chemical Physics, 2004, 120, 6985-6991.	1.2	38
74	X-ray-emission-threshold-electron coincidence spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2004, 141, 161-170.	0.8	9
75	Threshold-photoelectron-spectroscopy-coincidence study of the double photoionization of HBr. Journal of Chemical Physics, 2004, 120, 6980-6984.	1.2	35
76	The double photoionization of HCl: An ion-electron coincidence study. Journal of Chemical Physics, 2004, 121, 10508-10512.	1.2	38
77	Near Edge X-ray Absorption Spectra of Some Small Polyatomic Molecules. Journal of Physical Chemistry A, 2003, 107, 1955-1963.	1.1	80
78	Experimental Determination of the Lifetime for the 2p3d(P01)Helium Doubly Excited State. Physical Review Letters, 2003, 90, 153004.	2.9	28
79	Krypton 3p excitations and subsequent resonant Auger decay. Physical Review A, 2003, 67, .	1.0	3
80	Photoabsorption cross section and ion-yield spectra of helium double-excitation resonances. Physical Review A, 2003, 68, .	1.0	9
81	Detailed observations of photo-accessible triplet doubly excited states in helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4339-4350.	0.6	20
82	Angular distribution of the fluorescence of helium doubly photo-excited states converging on the He ⁺ (N= 2) ionization threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4351-4359.	0.6	13
83	High-resolution inner-shell photoabsorption of the OH and OD free radicals. Journal of Chemical Physics, 2002, 116, 3676-3680.	1.2	26
84	Inner shell excitation spectroscopy of the tetrahedral molecules CX ₄ (X = H, F, Cl). Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 61-75.	0.6	31
85	Gas-Phase Photoemission Study of 2-Mercaptobenzothiazole. Journal of Physical Chemistry A, 2002, 106, 2833-2837.	1.1	12
86	Mass spectrometric study of double photoionization of HBr molecules. Journal of Chemical Physics, 2002, 117, 1098-1102.	1.2	35
87	High-Resolution Inner-Shell Photoabsorption and Dissociation of Ozone. Journal of Physical Chemistry A, 2001, 105, 3400-3406.	1.1	17
88	Gas-Phase Experimental and Theoretical Near Edge X-ray Absorption Fine Structure Study of 2-Mercaptobenzothiazole. Journal of Physical Chemistry A, 2001, 105, 7308-7314.	1.1	15
89	Dynamics of the N(2D) + D ₂ Reaction from Crossed-Beam and Quasiclassical Trajectory Studies. Journal of Physical Chemistry A, 2001, 105, 2414-2422.	1.1	51
90	Observation of Triplet Doubly Excited States in Single Photon Excitation from Ground State Helium. Physical Review Letters, 2001, 86, 2758-2761.	2.9	67

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91	High resolution K-edge spectroscopy of oxygen transient species: the metastable O(2 1 ¹ g) molecule and the O(3P) atom. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 85-92.	0.8	6
92	Photoelectron spectroscopy (PES) study of gas-phase 2,5-(2,2'-dithienyl)diethynyl-thiophene (TRIM): an experimental and theoretical study. <i>Chemical Physics Letters</i> , 2001, 340, 449-457.	1.2	12
93	Cyanomethylene Formation from the Reaction of Excited Nitrogen Atoms with Acetylene: A Crossed Beam and ab Initio Study. <i>Journal of the American Chemical Society</i> , 2000, 122, 4443-4450.	6.6	71
94	Comparative dynamics of Cl(2P) and O(3P) interactions with a hydrocarbon surface. <i>Journal of Chemical Physics</i> , 2000, 112, 5975-5984.	1.2	95
95	Radiative and Relativistic Effects in the Decay of Highly Excited States in Helium. <i>Physical Review Letters</i> , 2000, 85, 1202-1205.	2.9	56
96	Dynamics of the Cl+H ₂ /D ₂ reaction: a comparison of crossed molecular beam experiments with quasiclassical trajectory and quantum mechanical calculations. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 599-612.	1.3	46
97	Gas-Phase Photoemission Study of 2-Mercaptobenzoxazole. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9675-9680.	1.1	18
98	Observation of Nitrogen-Bearing Organic Molecules from Reactions of Nitrogen Atoms with Hydrocarbons: A Crossed Beam Study of N(2D) + Ethylene. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5655-5659.	1.1	70
99	Exploring the reaction dynamics of nitrogen atoms: A combined crossed beam and theoretical study of N(2D)+D ₂ ⁺ ND+D. <i>Journal of Chemical Physics</i> , 1999, 110, 8857-8860.	1.2	87
100	Reactive Scattering of Oxygen and Nitrogen Atoms. <i>Accounts of Chemical Research</i> , 1999, 32, 503-511.	7.6	77
101	Crossed beam studies of the O(3P,1D)+CH ₃ I reactions: Direct evidence of intersystem crossing. <i>Faraday Discussions</i> , 1999, 113, 133-150.	1.6	36
102	Influence of the Radiative Decay on the Cross Section for Double Excitations in Helium. <i>Physical Review Letters</i> , 1999, 83, 947-950.	2.9	75
103	Crossed molecular beams and quasiclassical trajectory studies of the reaction O(1D)+H ₂ (D ₂). <i>Journal of Chemical Physics</i> , 1998, 108, 6698-6708.	1.2	89
104	Magnetic Analysis of Supersonic Beams of Atomic Oxygen, Nitrogen, and Chlorine Generated from a Radio-Frequency Discharge. <i>Israel Journal of Chemistry</i> , 1997, 37, 329-342.	1.0	96
105	Atomic oxygen interactions with saturated hydrocarbon surfaces. , 1997, , .		2
106	Reactive scattering of ground-state and electronically excited oxygen atoms on a liquid hydrocarbon surface. <i>Faraday Discussions</i> , 1997, 108, 387-399.	1.6	62
107	A Crossed Molecular Beam Study of the Reaction O(1D) + HI → IO + H. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6455-6462.	1.1	19
108	Dynamics of the Simplest Chlorine Atom Reaction: An Experimental and Theoretical Study. <i>Science</i> , 1996, 273, 1519-1522.	6.0	100

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109	The dynamics of the reaction $\text{OH} + \text{D}_2 \rightarrow \text{HOD} + \text{D}$: Crossed beam experiments and quantum mechanical scattering calculations on ab initio potential energy surfaces. <i>Chemical Physics</i> , 1996, 207, 389-409.	0.9	114
110	On the dynamics of the $\text{O}(1\text{D}) + \text{CF}_3\text{Br}$ reaction. <i>Chemical Physics Letters</i> , 1996, 258, 323-329.	1.2	30
111	Reactive scattering of atoms and radicals. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 575.	1.7	142
112	Crossed beam studies of four-atom reactions: The dynamics of $\text{OH} + \text{D}_2$. <i>Journal of Chemical Physics</i> , 1993, 98, 2459-2462.	1.2	82
113	Crossed beam studies of four-atom reactions: The dynamics of $\text{OH} + \text{CO}$. <i>Journal of Chemical Physics</i> , 1993, 98, 8341-8344.	1.2	134
114	On the electrochemical properties of titanium hydride. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 316, 347-352.	0.3	9