

Oksana Plekan

List of Publications by Year in descending order

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88
papers

2,760
citations

159358

30
h-index

197535

49
g-index

88
all docs

88
docs citations

88
times ranked

2977
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved Ultrafast Interatomic Coulombic Decay in Superexcited Sodium-Doped Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4470-4478.	2.1	8
2	Interference of two-photon transitions induced by XUV light. <i>Optica</i> , 2022, 9, 692.	4.8	2
3	Unravelling the full relaxation dynamics of superexcited helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15138-15149.	1.3	12
4	A mechanism for ageing in a deeply supercooled molecular glass. <i>Chemical Communications</i> , 2021, 57, 6368-6371.	2.2	10
5	Low temperature aging in a molecular glass: the case of <i>cis</i> -methyl formate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15719-15726.	1.3	2
6	Time-resolved photoelectron imaging of complex resonances in molecular nitrogen. <i>Journal of Chemical Physics</i> , 2021, 154, 144305.	1.2	8
7	Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. <i>Nature Photonics</i> , 2021, 15, 523-529.	15.6	20
8	Carbon and Nitrogen K-Edge NEXAFS Spectra of Indole, 2,3-Dihydro-7-azaindole, and 3-Formylindole. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4160-4172.	1.1	4
9	Complex Attosecond Waveform Synthesis at FEL FERMI. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9791.	1.3	5
10	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 2020, 12, 795-800.	6.6	44
11	Photoelectric effect with a twist. <i>Nature Photonics</i> , 2020, 14, 554-558.	15.6	39
12	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. <i>Nature Communications</i> , 2020, 11, 883.	5.8	50
13	Attosecond pulse shaping using a seeded free-electron laser. <i>Nature</i> , 2020, 578, 386-391.	13.7	116
14	Experimental and Theoretical Photoemission Study of Indole and Its Derivatives in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4115-4127.	1.1	19
15	Time-resolved formation of excited atomic and molecular states in XUV-induced nanoplasmas in ammonia clusters. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7828-7834.	1.3	3
16	New Method for Measuring Angle-Resolved Phases in Photoemission. <i>Physical Review X</i> , 2020, 10, .	2.8	23
17	High-gain harmonic generation with temporally overlapping seed pulses and application to ultrafast spectroscopy. <i>Optics Express</i> , 2020, 28, 29976.	1.7	5
18	Deep neural networks for classifying complex features in diffraction images. <i>Physical Review E</i> , 2019, 99, 063309.	0.8	26

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19	A detailed investigation of single-photon laser enabled Auger decay in neon. <i>New Journal of Physics</i> , 2019, 21, 113036.	1.2	12
20	Adsorption of 5-Fluorouracil on Au(111) and Cu(111) surfaces. <i>AIP Advances</i> , 2019, 9, .	0.6	5
21	Real-Time Dynamics of the Formation of Hydrated Electrons upon Irradiation of Water Clusters with Extreme Ultraviolet Light. <i>Physical Review Letters</i> , 2019, 122, 133001.	2.9	16
22	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. <i>Physical Review Letters</i> , 2019, 123, 213904.	2.9	21
23	Complete reconstruction of bound and unbound electronic wavefunctions in two-photon double ionization. <i>Nature Physics</i> , 2019, 15, 170-177.	6.5	17
24	Three-Dimensional Shapes of Spinning Helium Nanodroplets. <i>Physical Review Letters</i> , 2018, 121, 255301.	2.9	49
25	Electronic structure and intramolecular interactions in three methoxyphenol isomers. <i>Journal of Chemical Physics</i> , 2018, 149, 134312.	1.2	13
26	Control of H Dissociative Ionization in the Nonlinear Regime Using Vacuum Ultraviolet Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2018, 121, 103002.	2.9	10
27	Optical setup for two-colour experiments at the low density matter beamline of FERMI. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 114010.	1.0	7
28	A review of recent progress in understanding the spontelectric state of matter. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	17
29	Pulse Duration of Seeded Free-Electron Lasers. <i>Physical Review X</i> , 2017, 7, .	2.8	47
30	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
31	The FERMI seeded-FEL facility: Status and perspectives. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
32	Slow Interatomic Coulombic Decay of Multiply Excited Neon Clusters. <i>Physical Review Letters</i> , 2016, 117, 276806.	2.9	24
33	X-ray Photoemission Spectra and Electronic Structure of Coumarin and its Derivatives. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7080-7087.	1.1	6
34	Angular distribution and circular dichroism in the two-colour XUV+NIR above-threshold ionization of helium. <i>Journal of Modern Optics</i> , 2016, 63, 367-382.	0.6	14
35	Coherent control with a short-wavelength free-electron laser. <i>Nature Photonics</i> , 2016, 10, 176-179.	15.6	197
36	Migration of surface excitations in highly-excited nanosystems probed by intense resonant XUV radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244011.	0.6	2

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37	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. Journal of Synchrotron Radiation, 2015, 22, 538-543.	1.0	46
38	Photoelectron Spectra and Electronic Structures of the Radiosensitizer Nimorazole and Related Compounds. Journal of Physical Chemistry A, 2015, 119, 9986-9995.	1.1	19
39	Functionalisation and immobilisation of an Au(110) surface via uracil and 2-thiouracil anchored layer. Physical Chemistry Chemical Physics, 2015, 17, 15181-15192.	1.3	9
40	Two-photon resonant excitation of interatomic coulombic decay in neon dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 204005.	0.6	7
41	Study of complex molecules of biological interest with synchrotron radiation. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 335-344.	0.8	12
42	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. Physical Review X, 2014, 4, .	2.8	80
43	Comment on: "Valence ionization of l-proline amino acid: Experimental and theoretical study" by F. Fathi, H. Farrokhpour, Chem. Phys. Lett. 565 (2013) 102. Chemical Physics Letters, 2014, 601, 186-187.	1.2	1
44	Cyclic dipeptide immobilization on Au(111) and Cu(110) surfaces. Physical Chemistry Chemical Physics, 2014, 16, 6657-6665.	1.3	4
45	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. Physical Review Letters, 2014, 113, 193201.	2.9	31
46	Investigations into the nature of spontelectrics: nitrous oxide diluted in xenon. Physical Chemistry Chemical Physics, 2014, 16, 23843-23853.	1.3	17
47	Electric Field Structures in Thin Films: Formation and Properties. Journal of Physical Chemistry A, 2014, 118, 6615-6621.	1.1	16
48	Spontaneous electric fields in solid films: spontelectrics [†] . International Reviews in Physical Chemistry, 2013, 32, 345-392.	0.9	40
49	Spontaneous electric fields in films of CF ₃ Cl, CF ₂ Cl ₂ and CFCl ₃ . Physical Chemistry Chemical Physics, 2013, 15, 108-113.	1.3	18
50	Adsorption of Cytosine and AZA Derivatives of Cytidine on Au Single Crystal Surfaces. Journal of Physical Chemistry C, 2013, 117, 18423-18433.	1.5	18
51	Nonlinear Excitation of Neon Using the FEL FERMI@ELETTRA. , 2013, , .		0
52	A modular end-station for atomic, molecular, and cluster science at the low density matter beamline of FERMI@Elettra. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164007.	0.6	78
53	Photoelectron spectra and structures of three cyclic dipeptides: PhePhe, TyrPro, and HisGly. Journal of Chemical Physics, 2012, 136, 124301.	1.2	27
54	Valence structures of aromatic bioactive compounds: a combined theoretical and experimental study. Journal of Synchrotron Radiation, 2012, 19, 773-781.	1.0	3

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55	Soft X-ray photoemission spectroscopy of selected neurotransmitters in the gas phase. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 244-251.	0.8	3
56	Photoelectron Spectra of Some Antibiotic Building Blocks: 2-Azetidinone and Thiazolidine-Carboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8653-8660.	1.1	14
57	Adsorption of Histidine and a Histidine Tripeptide on Au(111) and Au(110) from Acidic Solution. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22960-22966.	1.5	30
58	Adsorption of 5-halouracils on Au(111). <i>Surface Science</i> , 2012, 606, 435-443.	0.8	14
59	Spontaneous electric fields in films of cis-methyl formate. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9972.	1.3	25
60	X-ray Spectroscopy of Heterocyclic Biochemicals: Xanthine, Hypoxanthine, and Caffeine. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5653-5664.	1.1	29
61	Comprehensive Core-Level Study of the Effects of Isomerism, Halogenation, and Methylation on the Tautomeric Equilibrium of Cytosine. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7722-7733.	1.1	13
62	A new form of spontaneously polarized material. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21035.	1.3	26
63	A new class of spontaneously polarized materials. <i>Europhysics News</i> , 2011, 42, 32-35.	0.1	9
64	Guanine adsorption on the Cu(110) surface. <i>Surface Science</i> , 2011, 605, 361-365.	0.8	15
65	Correlation of electronic structures of three cyclic dipeptides with their photoemission spectra. <i>Journal of Chemical Physics</i> , 2010, 133, 174319.	1.2	28
66	Photoemission Study of Thymidine Adsorbed on Au(111) and Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 15036-15041.	1.5	18
67	Adsorption of Histidine and Histidine-Containing Peptides on Au(111). <i>Langmuir</i> , 2010, 26, 8606-8613.	1.6	54
68	Tautomerism in Cytosine and Uracil: A Theoretical and Experimental X-ray Absorption and Resonant Auger Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10270-10276.	1.1	77
69	Valence electronic properties of porphyrin derivatives. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10812.	1.3	32
70	Adsorption Structure of Glycyl-Glycine on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10922-10931.	1.5	30
71	Photoion mass spectroscopy and valence photoionization of hypoxanthine, xanthine and caffeine. <i>Chemical Physics</i> , 2009, 358, 33-38.	0.9	24
72	Photoemission and Photoabsorption Spectroscopy of Glycyl-Glycine in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10726-10733.	1.1	51

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73	Electronic structure of aromatic amino acids studied by soft x-ray spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 131, 035103.	1.2	80
74	Tautomerism in Cytosine and Uracil: An Experimental and Theoretical Core Level Spectroscopic Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5736-5742.	1.1	113
75	An Experimental and Theoretical Core-Level Study of Tautomerism in Guanine. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9376-9385.	1.1	64
76	Investigation of Halogenated Pyrimidines by X-ray Photoemission Spectroscopy and Theoretical DFT Methods. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13593-13600.	1.1	36
77	Theoretical and Experimental Study of Valence-Shell Ionization Spectra of Guanine. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15142-15149.	1.1	34
78	A theoretical and experimental study of the near edge X-ray absorption fine structure (NEXAFS) and X-ray photoelectron spectra (XPS) of nucleobases: Thymine and adenine. <i>Chemical Physics</i> , 2008, 347, 360-375.	0.9	142
79	Core Level Study of Alanine and Threonine. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7806-7815.	1.1	80
80	The Electronic Structure and Adsorption Geometry of α -Histidine on Cu(110). <i>Journal of Physical Chemistry B</i> , 2008, 112, 13655-13660.	1.2	38
81	Valence photoionization and photofragmentation of aromatic amino acids. <i>Molecular Physics</i> , 2008, 106, 1143-1153.	0.8	53
82	Investigation of the Amino Acids Glycine, Proline, and Methionine by Photoemission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10998-11005.	1.1	109
83	Photoemission and the shape of amino acids. <i>Chemical Physics Letters</i> , 2007, 442, 429-433.	1.2	56
84	An X-ray absorption study of glycine, methionine and proline. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 155, 47-53.	0.8	62
85	Photofragmentation of guanine, cytosine, leucine and methionine. <i>Chemical Physics</i> , 2007, 334, 53-63.	0.9	54
86	The adsorption of adenine on mineral surfaces: Iron pyrite and silicon dioxide. <i>Surface Science</i> , 2007, 601, 1973-1980.	0.8	27
87	Strong Oscillations in Molecular Valence Photoemission Intensities. <i>Physical Review Letters</i> , 2005, 95, 263401.	2.9	18
88	Single-colour resonance three-photon ionization of samarium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4155-4174.	0.6	18