

# 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	Coherent control with a short-wavelength free-electron laser. <i>Nature Photonics</i> , 2016, 10, 176-179.	15.6	197
2	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
3	Attosecond pulse shaping using a seeded free-electron laser. <i>Nature</i> , 2020, 578, 386-391.	13.7	116
4	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
5	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
6	Core Level Study of Alanine and Threonine. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7806-7815.	1.1	80
7	Electronic structure of aromatic amino acids studied by soft x-ray spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 131, 035103.	1.2	80
8	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. <i>Physical Review X</i> , 2014, 4, .	2.8	80
9	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
10	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
11	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
12	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
13	Photoemission and the shape of amino acids. <i>Chemical Physics Letters</i> , 2007, 442, 429-433.	1.2	56
14	Photofragmentation of guanine, cytosine, leucine and methionine. <i>Chemical Physics</i> , 2007, 334, 53-63.	0.9	54
15	Adsorption of Histidine and Histidine-Containing Peptides on Au(111). <i>Langmuir</i> , 2010, 26, 8606-8613.	1.6	54
16	Valence photoionization and photofragmentation of aromatic amino acids. <i>Molecular Physics</i> , 2008, 106, 1143-1153.	0.8	53
17	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
18	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. <i>Nature Communications</i> , 2020, 11, 883.	5.8	50

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19	Three-Dimensional Shapes of Spinning Helium Nanodroplets. <i>Physical Review Letters</i> , 2018, 121, 255301.	2.9	49
20	Pulse Duration of Seeded Free-Electron Lasers. <i>Physical Review X</i> , 2017, 7, .	2.8	47
21	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
22	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 2020, 12, 795-800.	6.6	44
23	Spontaneous electric fields in solid films: spontelectrics. <i>International Reviews in Physical Chemistry</i> , 2013, 32, 345-392.	0.9	40
24	Photoelectric effect with a twist. <i>Nature Photonics</i> , 2020, 14, 554-558.	15.6	39
25	The Electronic Structure and Adsorption Geometry of $\alpha$ -Histidine on Cu(110). <i>Journal of Physical Chemistry B</i> , 2008, 112, 13655-13660.	1.2	38
26	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
27	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
28	Valence electronic properties of porphyrin derivatives. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10812.	1.3	32
29	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. <i>Physical Review Letters</i> , 2014, 113, 193201.	2.9	31
30	Adsorption Structure of Glycyl-Glycine on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10922-10931.	1.5	30
31	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
32	X-ray Spectroscopy of Heterocyclic Biochemicals: Xanthine, Hypoxanthine, and Caffeine. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5653-5664.	1.1	29
33	Correlation of electronic structures of three cyclic dipeptides with their photoemission spectra. <i>Journal of Chemical Physics</i> , 2010, 133, 174319.	1.2	28
34	The adsorption of adenine on mineral surfaces: Iron pyrite and silicon dioxide. <i>Surface Science</i> , 2007, 601, 1973-1980.	0.8	27
35	Photoelectron spectra and structures of three cyclic dipeptides: PhePhe, TyrPro, and HisGly. <i>Journal of Chemical Physics</i> , 2012, 136, 124301.	1.2	27
36	A new form of spontaneously polarized material. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21035.	1.3	26

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37	Deep neural networks for classifying complex features in diffraction images. <i>Physical Review E</i> , 2019, 99, 063309.	0.8	26
38	Spontaneous electric fields in films of cis-methyl formate. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9972.	1.3	25
39	Photoion mass spectroscopy and valence photoionization of hypoxanthine, xanthine and caffeine. <i>Chemical Physics</i> , 2009, 358, 33-38.	0.9	24
40	Slow Interatomic Coulombic Decay of Multiply Excited Neon Clusters. <i>Physical Review Letters</i> , 2016, 117, 276806.	2.9	24
41	New Method for Measuring Angle-Resolved Phases in Photoemission. <i>Physical Review X</i> , 2020, 10, .	2.8	23
42	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. <i>Physical Review Letters</i> , 2019, 123, 213904.	2.9	21
43	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
44	Photoelectron Spectra and Electronic Structures of the Radiosensitizer Nimorazole and Related Compounds. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9986-9995.	1.1	19
45	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
46	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
47	Strong Oscillations in Molecular Valence Photoemission Intensities. <i>Physical Review Letters</i> , 2005, 95, 263401.	2.9	18
48	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
49	Spontaneous electric fields in films of CF <sub>3</sub> Cl, CF <sub>2</sub> Cl <sub>2</sub> and CFCl <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 108-113.	1.3	18
50	Adsorption of Cytosine and AZA Derivatives of Cytidine on Au Single Crystal Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18423-18433.	1.5	18
51	Investigations into the nature of spontelectrics: nitrous oxide diluted in xenon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23843-23853.	1.3	17
52	A review of recent progress in understanding the spontelectric state of matter. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	17
53	Complete reconstruction of bound and unbound electronic wavefunctions in two-photon double ionization. <i>Nature Physics</i> , 2019, 15, 170-177.	6.5	17
54	Electric Field Structures in Thin Films: Formation and Properties. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6615-6621.	1.1	16

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55	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
56	Guanine adsorption on the Cu(110) surface. <i>Surface Science</i> , 2011, 605, 361-365.	0.8	15
57	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
58	Adsorption of 5-halouracils on Au(111). <i>Surface Science</i> , 2012, 606, 435-443.	0.8	14
59	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
60	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
61	Electronic structure and intramolecular interactions in three methoxyphenol isomers. <i>Journal of Chemical Physics</i> , 2018, 149, 134312.	1.2	13
62	Study of complex molecules of biological interest with synchrotron radiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 335-344.	0.8	12
63	A detailed investigation of single-photon laser enabled Auger decay in neon. <i>New Journal of Physics</i> , 2019, 21, 113036.	1.2	12
64	Unravelling the full relaxation dynamics of superexcited helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15138-15149.	1.3	12
65	Control of $\langle \text{H} \rangle$ Dissociative Ionization in the Nonlinear Regime Using Vacuum Ultraviolet Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2018, 121, 103002.	1.3	12
66	A mechanism for ageing in a deeply supercooled molecular glass. <i>Chemical Communications</i> , 2021, 57, 6368-6371.	2.2	10
67	A new class of spontaneously polarized materials. <i>Europhysics News</i> , 2011, 42, 32-35.	0.1	9
68	Functionalisation and immobilisation of an Au(110) surface via uracil and 2-thiouracil anchored layer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15181-15192.	1.3	9
69	Time-resolved photoelectron imaging of complex resonances in molecular nitrogen. <i>Journal of Chemical Physics</i> , 2021, 154, 144305.	1.2	8
70	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
71	Two-photon resonant excitation of interatomic coulombic decay in neon dimers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 204005.	0.6	7
72	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

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73	X-ray Photoemission Spectra and Electronic Structure of Coumarin and its Derivatives. Journal of Physical Chemistry A, 2016, 120, 7080-7087.	1.1	6
74	Adsorption of 5-Fluorouracil on Au(111) and Cu(111) surfaces. AIP Advances, 2019, 9, .	0.6	5
75	Complex Attosecond Waveform Synthesis at FEL FERMI. Applied Sciences (Switzerland), 2021, 11, 9791.	1.3	5
76	High-gain harmonic generation with temporally overlapping seed pulses and application to ultrafast spectroscopy. Optics Express, 2020, 28, 29976.	1.7	5
77	Cyclic dipeptide immobilization on Au(111) and Cu(110) surfaces. Physical Chemistry Chemical Physics, 2014, 16, 6657-6665.	1.3	4
78	The FERMI seeded-FEL facility: Status and perspectives. AIP Conference Proceedings, 2016, , .	0.3	4
79	Carbon and Nitrogen K-Edge NEXAFS Spectra of Indole, 2,3-Dihydro-7-azaindole, and 3-Formylindole. Journal of Physical Chemistry A, 2021, 125, 4160-4172.	1.1	4
80	Valence structures of aromatic bioactive compounds: a combined theoretical and experimental study. Journal of Synchrotron Radiation, 2012, 19, 773-781.	1.0	3
81	Soft X-ray photoemission spectroscopy of selected neurotransmitters in the gas phase. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 244-251.	0.8	3
82	Time-resolved formation of excited atomic and molecular states in XUV-induced nanoplasmas in ammonia clusters. Physical Chemistry Chemical Physics, 2020, 22, 7828-7834.	1.3	3
83	Migration of surface excitations in highly-excited nanosystems probed by intense resonant XUV radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244011.	0.6	2
84	Low temperature aging in a molecular glass: the case of <i>cis</i> -methyl formate. Physical Chemistry Chemical Physics, 2021, 23, 15719-15726.	1.3	2
85	Interference of two-photon transitions induced by XUV light. Optica, 2022, 9, 692.	4.8	2
86	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
87	Application of Matched-Filter Concepts to Unbiased Selection of Data in Pump-Probe Experiments with Free Electron Lasers. Applied Sciences (Switzerland), 2017, 7, 621.	1.3	1
88	Nonlinear Excitation of Neon Using the FEL FERMI@ELETTRA. , 2013, , .		0