

# Ljiljana Puskar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6315502/publications.pdf>

Version: 2024-02-01

62  
papers

1,604  
citations

331670

21  
h-index

302126

39  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2570  
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR spectroscopy of nanodiamonds: Methods and interpretation. <i>Diamond and Related Materials</i> , 2018, 89, 52-66.	3.9	214
2	The role of melt-fracture degassing in defusing explosive rhyolite eruptions at volcano Chait�n. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 63-69.	4.4	125
3	Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5185-5194.	3.1	104
4	FTIR spectroscopy of single live cells in aqueous media by synchrotron IR microscopy using microfabricated sample holders. <i>Vibrational Spectroscopy</i> , 2010, 53, 34-38.	2.2	98
5	Raman acoustic levitation spectroscopy of red blood cells and <i>Plasmodium falciparum</i> trophozoites. <i>Lab on A Chip</i> , 2007, 7, 1125.	6.0	96
6	Metal Stearate Distributions in Modern Artists' Oil Paints: Surface and Cross-Sectional Investigation of Reference Paint Films Using Conventional and Synchrotron Infrared Microspectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 1136-1144.	2.2	81
7	Synchrotron Fourier transform infrared (FTIR) analysis of single living cells progressing through the cell cycle. <i>Analyst</i> , 2013, 138, 3891.	3.5	55
8	One-Step Method for Generating PEG-Like Plasma Polymer Gradients: Chemical Characterization and Analysis of Protein Interactions. <i>Langmuir</i> , 2010, 26, 13987-13994.	3.5	48
9	Copper and xanthate adsorption onto pyrite surfaces: Implications for mineral separation through flotation. <i>International Journal of Mineral Processing</i> , 2012, 114-117, 16-26.	2.6	48
10	Chemical analysis of acoustically levitated drops by Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1433-1441.	3.7	46
11	Chemically imaging the interaction of acetylated nanocrystalline cellulose (NCC) with a polylactic acid (PLA) polymer matrix. <i>Cellulose</i> , 2017, 24, 1717-1729.	4.9	45
12	Synchrotron radiation infrared microspectroscopy of arsenic-induced changes to intracellular biomolecules in live leukemia cells. <i>Vibrational Spectroscopy</i> , 2010, 53, 39-44.	2.2	38
13	Tip-Enhanced Infrared Difference-Nanospectroscopy of the Proton Pump Activity of Bacteriorhodopsin in Single Purple Membrane Patches. <i>Nano Letters</i> , 2019, 19, 3104-3114.	9.1	36
14	Time-resolved infrared spectroscopic techniques as applied to channelrhodopsin. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 38.	3.5	34
15	Stable [Pb(ROH)N] <sub>2</sub> +Complexes in the Gas Phase: Softening the Base To Match the Lewis Acid. <i>Journal of the American Chemical Society</i> , 2002, 124, 9257-9264.	13.7	33
16	What Is Required to Stabilize Al <sup>3+</sup> ? A Gas-Phase Perspective. <i>Journal of the American Chemical Society</i> , 2005, 127, 7559-7569.	13.7	31
17	Heterogeneity of the Transmembrane Protein Conformation in Purple Membranes Identified by Infrared Nanospectroscopy. <i>Small</i> , 2017, 13, 1701181.	10.0	29
18	Customizing the surface charge of thin-film composite membranes by surface plasma thin film polymerization. <i>Journal of Membrane Science</i> , 2017, 537, 1-10.	8.2	29

#	ARTICLE	IF	CITATIONS
19	Infrared microscopy studies of the chemical composition of latent fingerprint residues. <i>Microchemical Journal</i> , 2013, 111, 40-46.	4.5	28
20	The ultraviolet photofragmentation of doubly charged transition metal complexes in the gas phase: Initial results for [Cu.(pyridine) <sub>n</sub> ] <sup>2+</sup> and [Ag.(pyridine) <sub>n</sub> ] <sup>2+</sup> ions. <i>Journal of Chemical Physics</i> , 2000, 112, 7751-7754.	3.0	25
21	High-spatial-resolution mapping of superhydrophobic cicada wing surface chemistry using infrared microspectroscopy and infrared imaging at two synchrotron beamlines. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 482-489.	2.4	24
22	Ligand field spectroscopy of Cu(II) and Ag(II) complexes in the gas phase: theory and experiment. <i>Faraday Discussions</i> , 2003, 124, 259-273.	3.2	21
23	Quantification of DNA in simple eukaryotic cells using Fourier transform infrared spectroscopy. <i>Journal of Biophotonics</i> , 2013, 6, 775-784.	2.3	21
24	Stability and cytotoxicity of crystallin amyloid nanofibrils. <i>Nanoscale</i> , 2014, 6, 13169-13178.	5.6	21
25	Effects of temperature and pressure on the optical and vibrational properties of thermoelectric SnSe. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8663-8678.	2.8	20
26	High Spatial Resolution Infrared Micro-Spectroscopy Reveals the Mechanism of Leaf Lignin Decomposition by Aquatic Fungi. <i>PLoS ONE</i> , 2013, 8, e60857.	2.5	19
27	Gas-Phase Study of the Chemistry and Coordination of Lead(II) in the Presence of Oxygen-, Nitrogen-, Sulfur-, and Phosphorus-Donating Ligands. <i>Journal of Physical Chemistry A</i> , 2005, 109, 273-282.	2.5	18
28	Deuterated Polymers for Probing Phase Separation Using Infrared Microspectroscopy. <i>Biomacromolecules</i> , 2014, 15, 644-649.	5.4	16
29	Micrometer-Scale 2D Mapping of the Composition and Homogeneity of Polymer Inclusion Membranes. <i>Australian Journal of Chemistry</i> , 2011, 64, 930.	0.9	15
30	Ligand field photofragmentation spectroscopy of [Ag(L)N] <sup>2+</sup> complexes in the gas phase: Experiment and theory. <i>Journal of Chemical Physics</i> , 2007, 127, 064311.	3.0	14
31	Gas phase ligand field photofragmentation spectroscopy. <i>Journal of Chemical Physics</i> , 2001, 114, 6499-6501.	3.0	13
32	High resolution synchrotron FTIR spectroscopy of the far infrared $\hat{1}/2_{10}$ and $\hat{1}/2_{11}$ bands of R152a (CH <sub>3</sub> CHF <sub>2</sub> ). <i>Chemical Physics Letters</i> , 2008, 465, 203-206.	2.6	11
33	Microanalysis of artworks: IR microspectroscopy of paint cross-sections. <i>Vibrational Spectroscopy</i> , 2010, 53, 77-82.	2.2	11
34	SAXS signature of the lamellar ordering of ionic domains of perfluorinated sulfonic-acid ionomers by electric and magnetic field-assisted casting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13764-13779.	2.8	11
35	IR spectroscopy of physical and chemical transformations in cold hydrogen chloride and ammonia aerosols. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7853.	2.8	10
36	Synchrotron FTIR Microscopy of Langmuir-Blodgett Monolayers and Polyelectrolyte Multilayers at the Solid-Solid Interface. <i>Langmuir</i> , 2012, 28, 1683-1688.	3.5	10

#	ARTICLE	IF	CITATIONS
37	Optical Constants of Harmful and Highly Energetic Liquids for Application to THz Screening Systems. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 396-407.	3.1	10
38	F�ry Infrared Spectrometer for Single-Shot Analysis of Protein Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7672-7677.	4.6	10
39	High-resolution FTIR spectroscopy of HNSO��Analysis of the highly perturbed ���4, ���6 and 2��5 bands. <i>Journal of Molecular Spectroscopy</i> , 2006, 240, 244-250.	1.2	9
40	Microbeam-irradiated tumour tissue possesses a different infrared absorbance profile compared to broad beam and sham-irradiated tissue. <i>International Journal of Radiation Biology</i> , 2013, 89, 79-87.	1.8	9
41	Qualitative spectroscopic characterization of the matrix��silane coupling agent interface across metal fibre reinforced ion exchange resin composite membranes. <i>Vibrational Spectroscopy</i> , 2014, 75, 203-212.	2.2	8
42	Proteins are a major component of dissolved organic nitrogen (DON) leached from terrestrially aged <i>Eucalyptus camaldulensis</i> leaves. <i>Environmental Chemistry</i> , 2016, 13, 877.	1.5	8
43	Research in Art and Archaeology: Capabilities and Investigations at the Australian Synchrotron. <i>Synchrotron Radiation News</i> , 2019, 32, 3-10.	0.8	8
44	Conformational changes of a membrane protein determined by infrared difference spectroscopy beyond the diffraction limit. <i>Physical Review Applied</i> , 2021, 16, .	3.8	8
45	Synchrotron FTIR microscopy of synthetic and natural CO 2 ��H 2 O fluid inclusions. <i>Vibrational Spectroscopy</i> , 2014, 75, 136-148.	2.2	6
46	Interplay of ���2-Relaxation Dynamics and the Shape of Ionomer Building Blocks. <i>Scientific Reports</i> , 2018, 8, 13441.	3.3	5
47	Preparation of chemical gradients on porous silicon by a dip coating method. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
48	Ro-vibrational analysis of the ���9 and ���16 bands of R152a. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 256-260.	1.2	3
49	A two-dimensional metallosupramolecular framework design based on coordination crosslinking of helical oligoamide nanorods. <i>Materials Advances</i> , 2020, 1, 1134-1141.	5.4	3
50	Coordination crosslinking of helical substituted oligoamide nanorods with Cu(II). <i>Supramolecular Chemistry</i> , 2020, 32, 222-232.	1.2	3
51	Attenuated Total Reflection FTIR Microspectroscopy at the Australian Synchrotron. , 2016, , .		3
52	Multiscale Photo-Based In-Situ and Operando Spectroscopies in Time and Energy Landscapes. <i>Synchrotron Radiation News</i> , 2017, 30, 14-19.	0.8	2
53	Isomeric xylene molecules in the Terahertz-far infrared regime: Computational chemistry and spectral modeling view. <i>Vibrational Spectroscopy</i> , 2017, 92, 220-229.	2.2	2
54	The Role of Molar Mass in Achieving Isotropy and Inter-Layer Strength in Mat-Ex Printed Polylactic Acid. <i>Polymers</i> , 2022, 14, 2792.	4.5	2

#	ARTICLE	IF	CITATIONS
55	A synchrotron-based single-shot spectrometer for mid-infrared measurements. , 2017, , .		1
56	Removal of Etalon Features in the Far-Infraredâ€“Terahertz Transmittance Spectra of Thin Polymer Films. Applied Spectroscopy, 2020, 74, 1530-1539.	2.2	1
57	Comprehensive multidimensional study of the self-assembly properties of a three residue substituted $\hat{2}<sup>3</sup>$ oligoamide. Pure and Applied Chemistry, 2021, 93, 1327-1341.	1.9	1
58	Infrared Beamline Data Analysis Workshop on Resonant Mie Scattering Correction. Synchrotron Radiation News, 2012, 25, 43-44.	0.8	0
59	Brilliant Infrared Radiation from the IRIS Beamline. , 2016, , .		0
60	Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell wall material to its aqueous chemical environment. Environmental Chemistry, 2018, 15, 513.	1.5	0
61	C-amidation of substituted $\hat{2}^3$ oligoamides yields novel supramolecular assembly motif. Nanotechnology, 2021, 33, .	2.6	0
62	Cultural Heritage Project atÂ Australian Nuclear Science and Technology Organisation (ANSTO). , 2022, , 375-441.		0