

Ljiljana Puskar

List of Publications by Year in descending order

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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	Cultural Heritage Project at Australian Nuclear Science and Technology Organisation (ANSTO)., 2022, , 375-441.		0
2	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
3	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
4	Comprehensive multidimensional study of the self-assembly properties of a three residue substituted β -oligoamide. <i>Pure and Applied Chemistry</i> , 2021, 93, 1327-1341.	1.9	1
5	C-amidation of substituted β -oligoamides yields novel supramolecular assembly motif. <i>Nanotechnology</i> , 2021, 33, .	2.6	0
6	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
7	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
8	Coordination crosslinking of helical substituted oligoamide nanorods with Cu(II). <i>Supramolecular Chemistry</i> , 2020, 32, 222-232.	1.2	3
9	Removal of Etalon Features in the Far-Infrared Terahertz Transmittance Spectra of Thin Polymer Films. <i>Applied Spectroscopy</i> , 2020, 74, 1530-1539.	2.2	1
10	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
11	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
12	Research in Art and Archaeology: Capabilities and Investigations at the Australian Synchrotron. <i>Synchrotron Radiation News</i> , 2019, 32, 3-10.	0.8	8
13	Femtosecond Infrared Spectrometer for Single-Shot Analysis of Protein Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7672-7677.	4.6	10
14	Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell wall material to its aqueous chemical environment. <i>Environmental Chemistry</i> , 2018, 15, 513.	1.5	0
15	Interplay of β -Relaxation Dynamics and the Shape of Ionomer Building Blocks. <i>Scientific Reports</i> , 2018, 8, 13441.	3.3	5
16	FTIR spectroscopy of nanodiamonds: Methods and interpretation. <i>Diamond and Related Materials</i> , 2018, 89, 52-66.	3.9	214
17	Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5185-5194.	3.1	104
18	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

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19	Multiscale Photo-Based In-Situ and Operando Spectroscopies in Time and Energy Landscapes. Synchrotron Radiation News, 2017, 30, 14-19.	0.8	2
20	Heterogeneity of the Transmembrane Protein Conformation in Purple Membranes Identified by Infrared Nanospectroscopy. Small, 2017, 13, 1701181.	10.0	29
21	Isomeric xylene molecules in the Terahertz-far infrared regime: Computational chemistry and spectral modeling view. Vibrational Spectroscopy, 2017, 92, 220-229.	2.2	2
22	A synchrotron-based single-shot spectrometer for mid-infrared measurements. , 2017, , .		1
23	Customizing the surface charge of thin-film composite membranes by surface plasma thin film polymerization. Journal of Membrane Science, 2017, 537, 1-10.	8.2	29
24	Brilliant Infrared Radiation from the IRIS Beamline. , 2016, , .		0
25	Proteins are a major component of dissolved organic nitrogen (DON) leached from terrestrially aged Eucalyptus camaldulensis leaves. Environmental Chemistry, 2016, 13, 877.	1.5	8
26	Optical Constants of Harmful and Highly Energetic Liquids for Application to THz Screening Systems. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 396-407.	3.1	10
27	Attenuated Total Reflection FTIR Microspectroscopy at the Australian Synchrotron. , 2016, , .		3
28	Time-resolved infrared spectroscopic techniques as applied to channelrhodopsin. Frontiers in Molecular Biosciences, 2015, 2, 38.	3.5	34
29	Synchrotron FTIR microscopy of synthetic and natural CO ₂ and H ₂ O fluid inclusions. Vibrational Spectroscopy, 2014, 75, 136-148.	2.2	6
30	Stability and cytotoxicity of crystallin amyloid nanofibrils. Nanoscale, 2014, 6, 13169-13178.	5.6	21
31	Qualitative spectroscopic characterization of the matrix-silane coupling agent interface across metal fibre reinforced ion exchange resin composite membranes. Vibrational Spectroscopy, 2014, 75, 203-212.	2.2	8
32	Deuterated Polymers for Probing Phase Separation Using Infrared Microspectroscopy. Biomacromolecules, 2014, 15, 644-649.	5.4	16
33	Quantification of DNA in simple eukaryotic cells using Fourier transform infrared spectroscopy. Journal of Biophotonics, 2013, 6, 775-784.	2.3	21
34	Microbeam-irradiated tumour tissue possesses a different infrared absorbance profile compared to broad beam and sham-irradiated tissue. International Journal of Radiation Biology, 2013, 89, 79-87.	1.8	9
35	Synchrotron Fourier transform infrared (FTIR) analysis of single living cells progressing through the cell cycle. Analyst, The, 2013, 138, 3891.	3.5	55
36	Infrared microscopy studies of the chemical composition of latent fingerprint residues. Microchemical Journal, 2013, 111, 40-46.	4.5	28

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37	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
38	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
39	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
40	Infrared Beamline Data Analysis Workshop on Resonant Mie Scattering Correction. <i>Synchrotron Radiation News</i> , 2012, 25, 43-44.	0.8	0
41	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
42	The role of melt-fracture degassing in defusing explosive rhyolite eruptions at volcano Chaitán. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 63-69.	4.4	125
43	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
44	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
45	Microanalysis of artworks: IR microspectroscopy of paint cross-sections. <i>Vibrational Spectroscopy</i> , 2010, 53, 77-82.	2.2	11
46	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
47	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
48	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
49	Chemical analysis of acoustically levitated drops by Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1433-1441.	3.7	46
50	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
51	Resonance vibrational analysis of the ν_{29} and ν_{16} bands of R152a. <i>Journal of Molecular Spectroscopy</i> , 2008, 251, 256-260.	1.2	3
52	High resolution synchrotron FTIR spectroscopy of the far infrared ν_{10} and ν_{11} bands of R152a (CH ₃ CHF ₂). <i>Chemical Physics Letters</i> , 2008, 465, 203-206.	2.6	11
53	Preparation of chemical gradients on porous silicon by a dip coating method. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
54	Ligand field photofragmentation spectroscopy of [Ag(L)N] ₂ ⁺ complexes in the gas phase: Experiment and theory. <i>Journal of Chemical Physics</i> , 2007, 127, 064311.	3.0	14

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55	Raman acoustic levitation spectroscopy of red blood cells and Plasmodium falciparum trophozoites. Lab on A Chip, 2007, 7, 1125.	6.0	96
56	High-resolution FTIR spectroscopy of HNSO ⁺ Analysis of the highly perturbed $\hat{1}/24$, $\hat{1}/26$ and $2\hat{1}/25$ bands. Journal of Molecular Spectroscopy, 2006, 240, 244-250.	1.2	9
57	Gas-Phase Study of the Chemistry and Coordination of Lead(II) in the Presence of Oxygen-, Nitrogen-, Sulfur-, and Phosphorus-Donating Ligands. Journal of Physical Chemistry A, 2005, 109, 273-282.	2.5	18
58	What Is Required to Stabilize Al ³⁺ ? A Gas-Phase Perspective. Journal of the American Chemical Society, 2005, 127, 7559-7569.	13.7	31
59	Ligand field spectroscopy of Cu(ii) and Ag(ii) complexes in the gas phase: theory and experiment. Faraday Discussions, 2003, 124, 259-273.	3.2	21
60	Stable [Pb(ROH)N] ₂ ⁺ Complexes in the Gas Phase: A Softening the Base To Match the Lewis Acid. Journal of the American Chemical Society, 2002, 124, 9257-9264.	13.7	33
61	Gas phase ligand field photofragmentation spectroscopy. Journal of Chemical Physics, 2001, 114, 6499-6501.	3.0	13
62	The ultraviolet photofragmentation of doubly charged transition metal complexes in the gas phase: Initial results for [Cu.(pyridine) _n] ₂ ⁺ and [Ag.(pyridine) _n] ₂ ⁺ ions. Journal of Chemical Physics, 2000, 112, 7751-7754.	3.0	25