

Iryna Doroshenko

List of Publications by Year in descending order

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51
papers

560
citations

623734

14
h-index

713466

21
g-index

51
all docs

51
docs citations

51
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR study of condensed water structure. <i>Journal of Molecular Structure</i> , 2018, 1167, 232-238.	3.6	33
2	Matrix-isolation study of cluster formation in methanol: O-H stretching region. <i>Journal of Molecular Liquids</i> , 2010, 157, 142-145.	4.9	30
3	The structure of liquid alcohols and the temperature dependence of vibrational bandwidth. <i>Journal of Molecular Structure</i> , 2004, 708, 61-65.	3.6	29
4	Temperature-controlled kinetics of the growth and relaxation of alcohol clusters in an argon matrix. <i>Molecular Physics</i> , 2010, 108, 2165-2170.	1.7	28
5	NMR and FTIR studies of clustering of water molecules: From low-temperature matrices to nano-structured materials used in innovative medicine. <i>Journal of Molecular Liquids</i> , 2017, 235, 1-6.	4.9	28
6	Theoretical study of the C-H/O-H stretching vibrations in malonaldehyde. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 384-393.	3.9	25
7	Structure and vibrational spectra of gauche- and trans-conformers of ethanol: Nonempirical anharmonic calculations and FTIR spectra in argon matrices. <i>Low Temperature Physics</i> , 2013, 39, 389-400.	0.6	24
8	Quantum-chemical modeling of energy parameters and vibrational spectra of chain and cyclic clusters of monohydric alcohols. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1937-1944.	2.1	23
9	Raman spectroscopic and theoretical study of liquid and solid water within the spectral region 1600-2300 cm ⁻¹ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 406-412.	3.9	21
10	From clusters to condensed phase - FT IR studies of water. <i>Journal of Molecular Liquids</i> , 2017, 235, 7-10.	4.9	20
11	Pyridine N-oxide/trichloroacetic acid complex in acetonitrile: FTIR spectra, anharmonic calculations and computations of 1-3D potential surfaces of O-H vibrations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 120, 585-594.	3.9	19
12	Anharmonic analysis of CH and OH stretching vibrations of the formic acid dimer. <i>Vibrational Spectroscopy</i> , 2015, 79, 67-75.	2.2	19
13	Nanoscale molecular clusters and vibrational relaxation in simple alcohols. <i>Superlattices and Microstructures</i> , 2008, 44, 571-576.	3.1	18
14	Structural transformations in bulk and matrix-isolated methanol from measured and computed infrared spectroscopy. <i>Journal of Molecular Liquids</i> , 2016, 216, 53-58.	4.9	17
15	Matrix isolation study of the formation of methanol cluster structures in the spectral region of C=O and O-H stretch vibrations. <i>Low Temperature Physics</i> , 2011, 37, 604-608.	0.6	15
16	FTIR/PCA study of propanol in argon matrix: The initial stage of clustering and conformational transitions. <i>Low Temperature Physics</i> , 2014, 40, 1077-1082.	0.6	15
17	Long-wave Raman spectra of some normal alcohols. <i>Vibrational Spectroscopy</i> , 2014, 72, 26-32.	2.2	13
18	Temperature dependence of the intensity of the vibration-rotational absorption band ν_{22} of H ₂ O trapped in an argon matrix. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 172, 83-90.	3.9	13

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19	Temperature evolution of cluster structure in n-hexanol, isolated in Ar and N ₂ matrices and in condensed states. <i>Structural Chemistry</i> , 2016, 27, 243-248.	2.0	11
20	Spectroscopic study of the n-hexanol cluster structure, isolated in an argon matrix. <i>Low Temperature Physics</i> , 2017, 43, 732-737.	0.6	11
21	NMR, Raman, and DFT Study of Lyotropic Chromonic Liquid Crystals of Biomedical Interest: Tautomeric Equilibrium and Slow Self-Assembling in Sunset Yellow Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3047-3055.	2.6	11
22	Propanol Clustering in Argon Matrix: 2D FTIR Correlation Spectroscopy. <i>Ukrainian Journal of Physics</i> , 2022, 56, 855.	0.2	11
23	1-Hexanol conformers in a nitrogen matrix: FTIR study and high-level ab initio calculations. <i>Journal of Molecular Liquids</i> , 2019, 278, 356-362.	4.9	10
24	The structural peculiarities of liquid n-heptanol and n-octanol. <i>Journal of Molecular Liquids</i> , 2012, 169, 80-86.	4.9	8
25	Vibrational spectra of water clusters, trapped in low temperature matrices. <i>Low Temperature Physics</i> , 2016, 42, 1163-1166.	0.6	8
26	MP4 Study of the Anharmonic Coupling of the Shared Proton Stretching Vibration of the Protonated Water Dimer in Equilibrium and Transition States. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2151-2165.	2.5	8
27	Cluster structure changes during melting of 1-decanol: FTIR study and DFT calculations. <i>Journal of Molecular Liquids</i> , 2017, 247, 188-192.	4.9	8
28	FTIR Spectra of n-Octanol in Liquid and Solid States. <i>Dataset Papers in Science</i> , 2014, 2014, 1-3.	1.0	8
29	Effect of argon environment on small water clusters in matrix isolation. <i>Low Temperature Physics</i> , 2019, 45, 627-633.	0.6	7
30	FTIR Spectra of n-pentanol and n-octanol in Liquid and Solid States. <i>Ukrainian Journal of Physics</i> , 2015, 60, 723-727.	0.2	7
31	Raman spectra and non-empirical calculations of dimethylformamide molecular clusters structure. <i>Vibrational Spectroscopy</i> , 2021, 117, 103315.	2.2	7
32	Spectroscopic studies of clusterization of methanol molecules isolated in a nitrogen matrix. <i>Low Temperature Physics</i> , 2017, 43, 1415-1419.	0.6	6
33	A laser ablation resonance ionisation mass spectrometer (LA-RIMS) for the detection of isotope ratios of uranium at ultra-trace concentrations from solid particles and solutions. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1630-1638.	3.0	6
34	Structural transformations in solid and liquid n-butanol from FTIR spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 697, 11-19.	0.9	6
35	<title>Raman study of molecular associations in methanol</title>. , 2004, , .		4
36	Combinatorial Broadening Mechanism of O-H Stretching Bands in H-Bonded Molecular Clusters. <i>Journal of Applied Spectroscopy</i> , 2016, 83, 350-357.	0.7	4

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37	MP4 study of the multimode coupling in protonated water dimer. Journal of Molecular Structure, 2017, 1139, 328-332.	3.6	4
38	Comparison of Degrees of Potential-Energy-Surface Anharmonicity for Complexes and Clusters with Hydrogen Bonds. Journal of Applied Spectroscopy, 2018, 84, 929-938.	0.7	4
39	Temperature-Induced Evolution of a Cluster Structure in n-nonan-1-ol: Experimental Study and Quantum-Chemistry Calculations. Ukrainian Journal of Physics, 2016, 61, 478-481.	0.2	4
40	Molecular Isomerization in n-Propanol Dimers. Ukrainian Journal of Physics, 2020, 65, 291.	0.2	4
41	Study of formamide molecular clusters by Raman spectroscopy and quantum-chemical calculations. Molecular Crystals and Liquid Crystals, 2022, 749, 124-131.	0.9	4
42	Quantum-Chemical Simulation of the Cluster Structure of Liquid N-Heptanol. Ukrainian Journal of Physics, 2022, 57, 166.	0.2	3
43	Explicitly correlated study of the torsional vibrations of HSOSH molecule. Comparison with MP2/CBS(T,Q) level of theory. Molecular Crystals and Liquid Crystals, 2022, 749, 9-17.	0.9	3
44	The influence of low-temperature argon matrix on embedded water clusters. A DFT theoretical study. Low Temperature Physics, 2021, 47, 242-249.	0.6	2
45	Conformational composition of 1-butanol in matrix isolation. Low Temperature Physics, 2021, 47, 318-324.	0.6	1
46	MCLC Special Issue: A collection of selected contributions presented at XXIV Galyna Puchkovska International School-Seminar "Spectroscopy of Molecules and Crystals" (August, 25-30, Odessa, Ukraine) Tj ETQq0 0 0rgBT /Overlock 10 T		
47	Experimental Study of Raman Spectra of Some Aromatic Hydrocarbons. Ukrainian Journal of Physics, 2020, 65, 284.	0.2	0
48	Investigation of structural features of SARS-CoV-2 S-protein interaction with lipid membranes by small-angle neutron scattering. Bulletin of Taras Shevchenko National University of Kyiv Series Physics and Mathematics, 2021, , 127-130.	0.1	0
49	Structure, IR and Raman spectra of the optically active quaternized ammonium salt " promising object for liquid crystal systems. Molecular Crystals and Liquid Crystals, 0, , 1-9.	0.9	0
50	Role of intermolecular interactions in formation of molecular clusters in liquid nitromethane and its solutions. Molecular Crystals and Liquid Crystals, 0, , 1-8.	0.9	0
51	Conformational composition of propanol in gaseous state and in matrix isolation. Molecular Crystals and Liquid Crystals, 0, , 1-10.	0.9	0