Iryna Doroshenko

List of Publications by Year
in descending order

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51	560	623734	713466
papers	citations	14 h-index	21 g-index

51	51	51	386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum-Chemical Simulation of the Cluster Structure of Liquid N-Heptanol. Ukrainian Journal of Physics, 2022, 57, 166.	0.2	3
2	Propanol Clustering in Argon Matrix: 2D FTIR Correlation Spectroscopy. Ukrainian Journal of Physics, 2022, 56, 855.	0.2	11
3	Study of formamide molecular clusters by Raman spectroscopy and quantum-chemical calculations. Molecular Crystals and Liquid Crystals, 2022, 749, 124-131.	0.9	4
4	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
5	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
6	Conformational composition of 1-butanol in matrix isolation. Low Temperature Physics, 2021, 47, 318-324.	0.6	1
7	Raman spectra and non-empirical calculations of dimethylformamide molecular clusters structure. Vibrational Spectroscopy, 2021, 117, 103315.	2.2	7
8	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
9	MCLC Special Issue: A collection of selected contributions presented at XXIV Galyna Puchkovska International School-Seminar â€œSpectroscopy of Molecules and Crystalsâ€•(August, 25-30, Odessa,) Tj ETQq1 1 0.784314 rgBT /Ov	0.7	0
10	Structural transformations in solid and liquid n-butanol from FTIR spectroscopy. Molecular Crystals and Liquid Crystals, 2020, 697, 11-19.	0.9	6
11	Experimental Study of Raman Spectra of Some Aromatic Hydrocarbons. Ukrainian Journal of Physics, 2020, 65, 284.	0.2	0
12	Molecular Isomerization in n-Propanol Dimers. Ukrainian Journal of Physics, 2020, 65, 291.	0.2	4
13	1-Hexanol conformers in a nitrogen matrix: FTIR study and high-level ab initio calculations. Journal of Molecular Liquids, 2019, 278, 356-362.	4.9	10
14	Effect of argon environment on small water clusters in matrix isolation. Low Temperature Physics, 2019, 45, 627-633.	0.6	7
15	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. Journal of Analytical Atomic Spectrometry, 2019, 34, 1630-1638.	3.0	6
16	NMR, Raman, and DFT Study of Lyotropic Chromonic Liquid Crystals of Biomedical Interest: Tautomeric Equilibrium and Slow Self-Assembling in Sunset Yellow Aqueous Solutions. Journal of Physical Chemistry B, 2018, 122, 3047-3055.	2.6	11
17	Raman spectroscopic and theoretical study of liquid and solid water within the spectral region 1600â€“2300 cm â^’1. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 406-412.	3.9	21
18	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

#	Article	IF	Citations
19	FTIR study of condensed water structure. Journal of Molecular Structure, 2018, 1167, 232-238.	3.6	33
20	Temperature dependence of the intensity of the vibration-rotational absorption band Î½2 of H2O trapped in an argon matrix. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 172, 83-90.	3.9	13
21	MP4 study of the multimode coupling in protonated water dimer. Journal of Molecular Structure, 2017, 1139, 328-332.	3.6	4
22	MP4 Study of the Anharmonic Coupling of the Shared Proton Stretching Vibration of the Protonated Water Dimer in Equilibrium and Transition States. Journal of Physical Chemistry A, 2017, 121, 2151-2165.	2.5	8
23	NMR and FTIR studies of clustering of water molecules: From low-temperature matrices to nano-structured materials used in innovative medicine. Journal of Molecular Liquids, 2017, 235, 1-6.	4.9	28
24	From clusters to condensed phase â€“ FT IR studies of water. Journal of Molecular Liquids, 2017, 235, 7-10.	4.9	20
25	Cluster structure changes during melting of 1-decanol: FTIR study and DFT calculations. Journal of Molecular Liquids, 2017, 247, 188-192.	4.9	8
26	Spectroscopic study of the n-hexanol cluster structure, isolated in an argon matrix. Low Temperature Physics, 2017, 43, 732-737.	0.6	11
27	Spectroscopic studies of clusterization of methanol molecules isolated in a nitrogen matrix. Low Temperature Physics, 2017, 43, 1415-1419.	0.6	6
28	Combinatorial Broadening Mechanism of Oâ€“H Stretching Bands in H-Bonded Molecular Clusters. Journal of Applied Spectroscopy, 2016, 83, 350-357.	0.7	4
29	Vibrational spectra of water clusters, trapped in low temperature matrices. Low Temperature Physics, 2016, 42, 1163-1166.	0.6	8
30	Temperature evolution of cluster structure in n-hexanol, isolated in Ar and N2 matrices and in condensed states. Structural Chemistry, 2016, 27, 243-248.	2.0	11
31	Structural transformations in bulk and matrix-isolated methanol from measured and computed infrared spectroscopy. Journal of Molecular Liquids, 2016, 216, 53-58.	4.9	17
32	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
33	Anharmonic analysis of CH and OH stretching vibrations of the formic acid dimer. Vibrational Spectroscopy, 2015, 79, 67-75.	2.2	19
34	Theoretical study of the Câ€“H/Oâ€“H stretching vibrations in malonaldehyde. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 384-393.	3.9	25
35	FTIR Spectra of n-pentanol and n-octanol in Liquid and Solid States. Ukrainian Journal of Physics, 2015, 60, 723-727.	0.2	7
36	FTIR/PCA study of propanol in argon matrix: The initial stage of clustering and conformational transitions. Low Temperature Physics, 2014, 40, 1077-1082.	0.6	15

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37	Quantum-chemical modeling of energy parameters and vibrational spectra of chain and cyclic clusters of monohydric alcohols. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1937-1944.	2.1	23
38	Pyridine N-oxide/trichloroacetic acid complex in acetonitrile: FTIR spectra, anharmonic calculations and computations of 1â€“3D potential surfaces of Oâ€“H vibrations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 120, 585-594.	3.9	19
39	Long-wave Raman spectra of some normal alcohols. Vibrational Spectroscopy, 2014, 72, 26-32.	2.2	13
40	FTIR Spectra of n-Octanol in Liquid and Solid States. Dataset Papers in Science, 2014, 2014, 1-3.	1.0	8
41	Structure and vibrational spectra of gauche- and trans-conformers of ethanol: Nonempirical anharmonic calculations and FTIR spectra in argon matrices. Low Temperature Physics, 2013, 39, 389-400.	0.6	24
42	The structural peculiarities of liquid n-heptanol and n-octanol. Journal of Molecular Liquids, 2012, 169, 80-86.	4.9	8
43	Matrix isolation study of the formation of methanol cluster structures in the spectral region of Câ€“O and Oâ€“H stretch vibrations. Low Temperature Physics, 2011, 37, 604-608.	0.6	15
44	Matrix-isolation study of cluster formation in methanol: Oâ€“H stretching region. Journal of Molecular Liquids, 2010, 157, 142-145.	4.9	30
45	Temperature-controlled kinetics of the growth and relaxation of alcohol clusters in an argon matrix. Molecular Physics, 2010, 108, 2165-2170.	1.7	28
46	Nanoscale molecular clusters and vibrational relaxation in simple alcohols. Superlattices and Microstructures, 2008, 44, 571-576.	3.1	18
47	The structure of liquid alcohols and the temperature dependence of vibrational bandwidth. Journal of Molecular Structure, 2004, 708, 61-65.	3.6	29
48	‹title›Raman study of molecular associations in methanol‹/title›. , 2004, , .		4
49	Structure, IR and Raman spectra of the optically active quaternized ammonium salt â€“ 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