## Joze Grdadolnik

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Origin of hydrophobicity and enhanced water hydrogen bond strength near purely hydrophobic solutes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 322-327.	3.3	169
2	Simple synthesis of anatase/rutile/brookite TiO2 nanocomposite with superior mineralization potential for photocatalytic degradation of water pollutants. Applied Catalysis B: Environmental, 2016, 181, 465-474.	10.8	151
3	Bovine serum albumin observed by infrared spectrometry. I. Methodology, structural investigation, and water uptake. Biopolymers, 2001, 62, 40-53.	1.2	149
4	Production of Nonclassical Inclusion Bodies from Which Correctly Folded Protein Can Be Extracted. Biotechnology Progress, 2008, 21, 632-639.	1.3	149
5	Urea and urea–water solutions—an infrared study. Journal of Molecular Structure, 2002, 615, 177-189.	1.8	137
6	Engineering inclusion bodies for non denaturing extraction of functional proteins. Microbial Cell Factories, 2008, 7, 34.	1.9	133
7	Intrinsic backbone preferences are fully present in blocked amino acids. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1272-1277.	3.3	113
8	An infrared spectroscopic study of H-bond network in hyperbranched polyester polyol. Journal of Molecular Structure, 2003, 658, 143-152.	1.8	109
9	Populations of the three major backbone conformations in 19 amino acid dipeptides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1794-1798.	3.3	104
10	Probing electrochemical reactions in organic cathode materials via in operando infrared spectroscopy. Nature Communications, 2018, 9, 661.	5.8	100
11	Electrochemical performance and redox mechanism of naphthalene-hydrazine diimide polymer as a cathode in magnesium battery. Journal of Power Sources, 2018, 395, 25-30.	4.0	76
12	Determination of Conformational Preferences of Dipeptides Using Vibrational Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 2712-2718.	1.2	73
13	Proton Dynamics in the Strong Chelate Hydrogen Bond of Crystalline Picolinic Acid <i>N</i> -Oxide. A New Computational Approach and Infrared, Raman and INS Study. Journal of Physical Chemistry A, 2008, 112, 1576-1586.	1.1	68
14	In situ UV-Vis and ex situ IR spectroelectrochemical investigations of amorphous and crystalline electrochromic Nb 2 O 5 films in charged/discharged states. Journal of Solid State Electrochemistry, 1998, 2, 221-236.	1.2	65
15	Bovine serum albumin observed by infrared spectrometry. II. Hydration mechanisms and interaction configurations of embedded H2O molecules. Biopolymers, 2001, 62, 54-67.	1.2	58
16	Proton Potential in Acetylacetone. Journal of Physical Chemistry A, 2001, 105, 2039-2044.	1.1	57
17	Hydrogen Bond Dynamics of Histamine Monocation in Aqueous Solution: Car–Parrinello Molecular Dynamics and Vibrational Spectroscopy Study. Journal of Physical Chemistry B, 2011, 115, 5999-6010.	1.2	56
18	Mechanisms of amyloid fibril formation – focus on domainâ€swapping. FEBS Journal, 2011, 278, 2263-2282.	2.2	55

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19	The structure of poly-l-lysine in different solvents. Biophysical Chemistry, 2013, 175-176, 47-53.	1.5	53
20	Novel Polysilsesquioxaneâ^'l-/l3-lonic Electrolyte for Dye-Sensitized Photoelectrochemical Cells. Journal of Physical Chemistry B, 2005, 109, 14387-14395.	1.2	50
21	Proton Transfer Dynamics in Acetylacetone:  A Mixed Quantum-Classical Simulation of Vibrational Spectra. Journal of Physical Chemistry A, 2001, 105, 2045-2051.	1.1	47
22	Electrochemical Performance and Mechanism of Calcium Metalâ€Organic Battery. Batteries and Supercaps, 2021, 4, 214-220.	2.4	44
23	Infrared difference spectroscopy. Vibrational Spectroscopy, 2003, 31, 279-288.	1.2	40
24	Identification of hydrogen bond modes in polarized Raman spectra of single crystals of αâ€oxalic acid dihydrate. Journal of Raman Spectroscopy, 2009, 40, 1605-1614.	1.2	39
25	Hyperbranched poly(esteramides) as solubility enhancers for poorly water-soluble drug glimepiride. International Journal of Pharmaceutics, 2010, 396, 119-126.	2.6	35
26	Effect of Annealing on the Rheological and Thermal Properties of Aliphatic Hyperbranched Polyester Based on 2,2-Bis(methylol)propionic Acid. Macromolecules, 2005, 38, 3933-3942.	2.2	33
27	Tracking electrochemical reactions inside organic electrodes by operando IR spectroscopy. Energy Storage Materials, 2019, 21, 347-353.	9.5	32
28	Infrared attenuated total reflection spectroscopy studies of aprotic condensation of (EtO)3SiRSi(OEt)3 and RSi(OEt)3 systems with carboxylic acids. Journal of Non-Crystalline Solids, 2005, 351, 530-549.	1.5	30
29	Structural, Vibrational, and Gasochromic Properties of Porous WO 3 Films Templated with a Sol-Gel Organic-Inorganic Hybrid. Monatshefte Für Chemie, 2002, 133, 1115-1133.	0.9	29
30	Structural characterization of a phenolic lipid and its derivative using vibrational spectroscopy. Vibrational Spectroscopy, 2006, 41, 14-20.	1.2	24
31	Redox Mechanisms in Li and Mg Batteries Containing Poly(phenanthrene quinone)/Graphene Cathodes using Operando ATR″R Spectroscopy. ChemSusChem, 2020, 13, 2328-2336.	3.6	23
32	Weakened Hydrogen Bonds in Water Confined between Lipid Bilayers: The Existence of a Longâ€Range Attractive Hydration Force. ChemPhysChem, 2009, 10, 1438-1441.	1.0	22
33	The N-Terminal Peptides of the Three Human Isoforms of the Mitochondrial Voltage-Dependent Anion Channel Have Different Helical Propensities. Biochemistry, 2015, 54, 5646-5656.	1.2	19
34	lodide···π Interactions of Perhalogenated Quinoid Rings in Co-crystals with Organic Bases. Crystal Growth and Design, 2018, 18, 5182-5193.	1.4	19
35	1,8-dihydroxy naphthalene (DHN) - melanin confers tolerance to cadmium in isolates of melanised dark septate endophytes. Ecotoxicology and Environmental Safety, 2021, 222, 112493.	2.9	16
36	Hydrogen—Deuterium Exchange in Bovine Serum Albumin Protein Monitored by Fourier Transform Infrared Spectroscopy, Part I: Structural Studies. Applied Spectroscopy, 2005, 59, 1347-1356.	1.2	15

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37	Determination of the interaction between glimepiride and hyperbranched polymers in solid dispersions. Journal of Pharmaceutical Sciences, 2011, 100, 4700-4709.	1.6	15
38	Nitranilic acid hexahydrate, a novel benchmark system of the Zundel cation in an intrinsically asymmetric environment: spectroscopic features and hydrogen bond dynamics characterised by experimental and theoretical methods. Physical Chemistry Chemical Physics, 2014, 16, 998-1007.	1.3	14
39	Emulsion-templated synthetic polypeptide scaffolds prepared by ring-opening polymerization of <i>N</i> -carboxyanhydrides. Polymer Chemistry, 2020, 11, 4260-4270.	1.9	14
40	Determination of the botanical origin of hops ( <i>Humulus lupulus</i> L.) using different analytical techniques in combination with statistical methods. Journal of the Institute of Brewing, 2016, 122, 452-461.	0.8	13
41	Infrared difference spectroscopy. Vibrational Spectroscopy, 2003, 31, 289-294.	1.2	12
42	Binding of cadmium dication to glutathione facilitates cysteine SH deprotonation: A computational DFT study. Journal of Inorganic Biochemistry, 2013, 119, 90-94.	1.5	11
43	The hydration of Concanavalin A studied by infrared spectroscopy. Journal of Molecular Structure, 2017, 1135, 138-143.	1.8	11
44	Mineral Deposition in Bacteria-Filled and Bacteria-Free Calcium Bodies in the Crustacean Hyloniscus riparius (Isopoda: Oniscidea). PLoS ONE, 2013, 8, e58968.	1.1	10
45	Infrared spectra of hydrogen bond network in lamellar perfluorocarboxylic acid monohydrates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119551.	2.0	10
46	Hydrogen—Deuterium Exchange in Bovine Serum Albumin Protein Monitored by Fourier Transform Infrared Spectroscopy, Part II: Kinetic Studies. Applied Spectroscopy, 2005, 59, 1357-1364.	1.2	8
47	The amide III vibrational circular dichroism band as a probe to detect conformational preferences of alanine dipeptide in water. Biopolymers, 2014, 101, 814-818.	1.2	8
48	Solute-induced changes in the water H-bond network of different alcohol-aqueous systems. Journal of Molecular Liquids, 2021, 341, 117349.	2.3	7
49	Evidence of Polaron Excitations in Low Temperature Raman Spectra of Oxalic Acid Dihydrate. Journal of Physical Chemistry A, 2016, 120, 2789-2796.	1.1	6
50	Structural stabilization and characterization of active peroxo species on TiO2-nanotube based materials in mild catalytic wet peroxide oxidation process. Applied Catalysis A: General, 2018, 562, 276-283.	2.2	6
51	Spectroscopic Characterization of Omeprazole and Its Salts. Journal of Spectroscopy, 2017, 2017, 1-11.	0.6	5
52	Endogenous modulators of neurotrophin signaling: Landscape of the transient ATP-NGF interactions. Computational and Structural Biotechnology Journal, 2021, 19, 2938-2949.	1.9	5
53	Synthesis, Conformation, and Stereodynamics of a Salt of 2-{[2-(3,4-Dichlorophenyl)- ethyl]propylamino}-1-pyridin-3-ylethanol. Journal of Organic Chemistry, 2006, 71, 792-795.	1.7	4
54	The Finite Size Effects and Two-State Paradigm of Protein Folding. International Journal of Molecular Sciences, 2021, 22, 2184.	1.8	4

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55	Analysis of the polarized IR reflectance spectra of the monoclinic α-oxalic acid dihydrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 1-8.	2.0	3
56	Implicit water model within the Zimm-Bragg approach to analyze experimental data for heat and cold denaturation of proteins. Communications Chemistry, 2021, 4, .	2.0	2
57	Untangling the Conformational Plasticity of V66M Human proBDNF Polymorphism as a Modifier of Psychiatric Disorder Susceptibility. International Journal of Molecular Sciences, 2022, 23, 6596.	1.8	2
58	<title>H-Bond network in biological systems: an infrared study</title> . , 2004, , .		0
59	Strong Hydrogen Bonds in Acetylenedicarboxylic Acid Dihydrate. International Journal of Molecular Sciences, 2022, 23, 6164.	1.8	0