

# Vlasta Mohaček-Grošelj

## List of Publications by Year in descending order

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43  
papers

810  
citations

687363

13  
h-index

501196

28  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectroscopic study of H <sub>2</sub> O and D <sub>2</sub> O water solutions of glycine. <i>Journal of Molecular Structure</i> , 1992, 267, 39-44.	3.6	169
2	Vibrational spectroscopic characterization of wild growing mushrooms and toadstools. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001, 57, 2815-2829.	3.9	117
3	Populations of the three major backbone conformations in 19 amino acid dipeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1794-1798.	7.1	104
4	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 4053-4064.	6.5	50
5	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	6.5	46
6	Identification of hydrogen bond modes in polarized Raman spectra of single crystals of oxalic acid dihydrate. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1605-1614.	2.5	39
7	Observed bands in Raman and infrared spectra of 1,3-dioxolane and their assignments. <i>Vibrational Spectroscopy</i> , 2013, 64, 101-107.	2.2	28
8	Influence of titanium doping on the Raman spectra of nanocrystalline ZnAl <sub>2</sub> O <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2017, 697, 90-95.	5.5	24
9	Vibrational analysis of hydroxyacetone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 477-484.	3.9	18
10	Methanol in isolated matrix, vapor and liquid phase: Raman spectroscopic study. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 2081-2087.	0.1	17
11	Internal rotation dynamics of nitromethane at low temperatures. <i>Journal of Molecular Structure</i> , 1999, 476, 181-189.	3.6	16
12	Luminescence and Raman Spectra of Acetylacetone at Low Temperatures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5820-5827.	2.5	14
13	Nitrilic 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. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 998-1007.	2.8	14
14	Structural properties of lead vanadate glasses containing La <sup>3+</sup> or Fe <sup>3+</sup> ions. <i>Journal of Materials Science</i> , 1994, 29, 1227-1232.	3.7	13
15	Mössbauer and vibrational spectra of sodium borosilicate glasses containing europium or tin ions. <i>Journal of Materials Science Letters</i> , 1991, 10, 889-892.	0.5	11
16	Missing Fe: hydrogenated iron nanoparticles. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 466, L14-L18.	3.3	11
17	Vibrational contribution to the internal rotation potential of toluene and nitromethane. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 137-147.	2.5	10
18	The Raman spectrum of toluene vapour. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 787-790.	2.5	10

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19	Horizontal silicon nanowires for surface-enhanced Raman spectroscopy. <i>Materials Research Express</i> , 2018, 5, 015015.	1.6	9
20	Development of cataract caused by diabetes mellitus: Raman study. <i>Journal of Molecular Structure</i> , 2005, 744-747, 169-177.	3.6	8
21	Glycolaldehyde dimer in the stable crystal phase has axial OH groups: Raman, infrared and X-ray data analysis. <i>Journal of Molecular Structure</i> , 2013, 1047, 209-215.	3.6	7
22	Stable and metastable solid phases of dicyclopropylacetylene. <i>The Journal of Physical Chemistry</i> , 1992, 96, 11042-11047.	2.9	6
23	Evidence of Polaron Excitations in Low Temperature Raman Spectra of Oxalic Acid Dihydrate. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2789-2796.	2.5	6
24	Amines used for low temperature curing of PDMS-based gel-networks impact $\hat{I}^3$ -irradiation outcome. <i>Radiation Physics and Chemistry</i> , 2020, 170, 108635.	2.8	6
25	Glucosamine to gold nanoparticles binding studied using Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120326.	3.9	6
26	Low temperature Raman study of dimethylacetylene. <i>Journal of Molecular Structure</i> , 1999, 482-483, 653-659.	3.6	5
27	Spectroscopic arguments for a new crystal phase of glycolaldehyde. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 453-461.	2.5	5
28	Vibrational analysis of 1-methyl-pyridinium-2-aldoxime and 1-methyl-pyridinium-4-aldoxime cations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 1376-1379.	3.9	5
29	Silicon Nanowires Substrates Fabrication for Ultra-Sensitive Surface Enhanced Raman Spectroscopy Sensors. <i>Croatica Chemica Acta</i> , 2017, 90, .	0.4	5
30	Binding of p-mercaptobenzoic acid and adenine to gold-coated electroless etched silicon nanowires studied by surface-enhanced Raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 102-109.	3.9	5
31	Low temperature Raman study of bis(trimethylsilyl)acetylene. <i>Journal of Molecular Structure</i> , 2007, 834-836, 270-275.	3.6	3
32	Do cement nanoparticles exist in space?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 1319-1325.	4.4	3
33	Raman spectroscopic evidence of low temperature stability of d,l-glycolic and l-(+)-lactic acid crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 35-43.	3.9	3
34	Silicon Nanowires as Sensory Material for Surface-Enhanced Raman Spectroscopy. <i>Silicon</i> , 2019, 11, 1151-1157.	3.3	3
35	Vibrational dynamics of 1,3-propanediol in liquid, polycrystalline and glassy states: A Raman spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 226, 117567.	3.9	3
36	Combining Raman Spectroscopy, DFT Calculations, and Atomic Force Microscopy in the Study of Clinker Materials. <i>Materials</i> , 2021, 14, 3648.	2.9	3

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37	Vibrational analysis of some cyclopropyl derivatives. Journal of Molecular Structure, 1992, 266, 321-326.	3.6	2
38	Remarkable increase of organic particles in the atmosphere above Croatia. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 449-462.	0.1	1
39	The origin of disorder in CH <sub>3</sub> HgX (X = Cl, Br and I) crystals investigated by temperature dependent Raman spectroscopy. European Physical Journal B, 2001, 20, 85-90.	1.5	1
40	New investigations of the guanine trichloro cuprate(II) complex crystal. Journal of Molecular Structure, 2017, 1128, 317-324.	3.6	1
41	Raman study of water deposited in solid argon matrix. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 269, 120770.	3.9	1
42	Structural Characterization of <sup>12</sup> C-Glycolaldehyde Dimer. Croatica Chemica Acta, 2020, 93, 15-22.	0.4	0
43	Strong Hydrogen Bonds in Acetylenedicarboxylic Acid Dihydrate. International Journal of Molecular Sciences, 2022, 23, 6164.	4.1	0