

# Zlatko Mihalic

## List of Publications by Year in descending order

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46  
papers

1,407  
citations

471061

17  
h-index

329751

37  
g-index

48  
all docs

48  
docs citations

48  
times ranked

952  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Harary index for the characterization of chemical graphs. <i>Journal of Mathematical Chemistry</i> , 1993, 12, 235-250.	0.7	315
2	A graph-theoretical approach to structure-property relationships. <i>Journal of Chemical Education</i> , 1992, 69, 701.	1.1	201
3	Comparative study of molecular descriptors derived from the distance matrix. <i>Journal of Chemical Information and Computer Sciences</i> , 1992, 32, 28-37.	2.8	134
4	The distance matrix in chemistry. <i>Journal of Mathematical Chemistry</i> , 1992, 11, 223-258.	0.7	115
5	The Laplacian matrix in chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 1994, 34, 368-376.	2.8	73
6	Molecular topological index: a relation with the Wiener index. <i>Journal of Chemical Information and Computer Sciences</i> , 1992, 32, 304-305.	2.8	60
7	Generation of the Parent Allyl Cation in a Superacidic Cryogenic Matrix. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 448-451.	4.4	43
8	The Detour Matrix in Chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 1997, 37, 631-638.	2.8	37
9	On the geometric-distance matrix and the corresponding structural invariants of molecular systems. <i>Chemical Physics Letters</i> , 1991, 179, 21-28.	1.2	35
10	Solid-State Reaction Mechanisms in Monomer~Dimer Interconversions of <i>p</i> -Bromonitrosobenzene. Single-Crystal-to-Single-Crystal Photodissociation and Formation of New Non-van der Waals Close Contacts. <i>Journal of Organic Chemistry</i> , 2005, 70, 8461-8467.	1.7	33
11	Exploring the potential energy surface for proton transfer in acetylacetone. <i>Chemical Physics</i> , 2004, 306, 201-207.	0.9	31
12	Synthesis, structure and tautomerism of two benzothiazolyl azo derivatives of 2-naphthol: A crystallographic, NMR and computational study. <i>Dyes and Pigments</i> , 2013, 96, 672-678.	2.0	31
13	Synthesis of new amidino-substituted 2-aminothiophenoles: mild basic ring opening of benzothiazole. <i>Tetrahedron</i> , 2008, 64, 11594-11602.	1.0	26
14	Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes. <i>Journal of Chromatography A</i> , 1991, 540, 430-440.	1.8	21
15	The algebraic modelling of chemical structures: On the development of three-dimensional molecular descriptors. <i>Computational and Theoretical Chemistry</i> , 1991, 232, 65-78.	1.5	21
16	Graphical bond orders: Novel structural descriptors. <i>Journal of Chemical Information and Computer Sciences</i> , 1994, 34, 403-409.	2.8	21
17	Synthesis and Conformational Analysis of Methyl <i>N</i> -allyl- <i>N</i> -(2-aminoferrrocene)carboxylate. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1810-1822.	1.0	17
18	The walk ID number revisited. <i>Journal of Chemical Information and Computer Sciences</i> , 1993, 33, 231-233.	2.8	16

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19	Preparation and Conformation Analysis of <i>N</i> -(Ferrocenoyl)dipeptide Esters and Their $\alpha$ -Acetyl Derivatives. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 2512-2524.	1.2	16
20	Preparation, structural, spectroscopic, thermal and DFT characterization of cadmium(II) complexes with quinaldic acid. <i>Inorganica Chimica Acta</i> , 2011, 378, 154-162.	1.2	14
21	Nitrosobenzene cross-dimerization: Structural selectivity in solution and in solid state. <i>Journal of Molecular Structure</i> , 2010, 979, 22-26.	1.8	13
22	Cis-trans isomerism in cobalt(II) complexes with 3-hydroxypicolinic acid. Structural, DFT and thermal studies. <i>Inorganica Chimica Acta</i> , 2010, 363, 1887-1896.	1.2	12
23	Structure and topochemistry of azodioxide oligomers in solid state. <i>Journal of Molecular Structure</i> , 2016, 1104, 85-90.	1.8	11
24	New pentacyclic ring systems: intramolecular cyclization of <i>o,o'</i> -disubstituted bibenzothiazoles. <i>Tetrahedron</i> , 2011, 67, 2760-2767.	1.0	10
25	Erzeugung des Allylkations in supersaurer Tieftemperatur-Matrix. <i>Angewandte Chemie</i> , 1994, 106, 470-473.	1.6	9
26	$\alpha$ -Acetylferrocene amino acid esters and amides. A simple model for parallel $\alpha$ -helical peptides. <i>Tetrahedron</i> , 2014, 70, 2330-2342.	1.0	9
27	Neighboring sulfur participation in the solvolysis of 2-( <i>o</i> -alkylthioalkyl)-3-methyl-2-cyclohexenyl <i>p</i> -nitrobenzoates. <i>Tetrahedron Letters</i> , 1986, 27, 1703-1706.	0.7	8
28	Solvolysis of 1,1-Dimethyl-4-Alkenyl Chlorides: Evidence for $\pi$ -Participation. <i>Journal of Organic Chemistry</i> , 2002, 67, 1490-1495.	1.7	8
29	Quantum Chemical Calculations of Monomer-Dimer Equilibria of Aromatic <i>C</i> -Nitroso Compounds. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2542-2549.	1.1	8
30	Errata. The Walk ID Number Revisited. <i>Journal of Chemical Information and Computer Sciences</i> , 1993, 33, 797-797.	2.8	6
31	2-Chloroallyl Cation. Structure, FT-IR Spectra, and Matrix Isolation. <i>Journal of Organic Chemistry</i> , 1999, 64, 4931-4934.	1.7	6
32	Vibrational spectroscopic and DFT calculation studies of cobalt(II) complexes with 3-hydroxypicolinic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 101, 273-282.	2.0	6
33	Structural diversity of the Ag coordination sphere in complexes of silver(I) nitrate with 3-halopyridine. Characterization of the complexes in solution and in the solid state. <i>Polyhedron</i> , 2016, 109, 166-175.	1.0	6
34	Hydrogen and halogen bonding patterns and $\pi$ - $\pi$ aromatic interactions of some 6,7-disubstituted 1,3-benzothiazoles studied by X-ray diffraction and DFT calculations. <i>Journal of Molecular Structure</i> , 2010, 975, 115-127.	1.8	5
35	Reaction of Trimethylsilylacetylenes with Antimony Pentafluoride under Matrix Isolation Conditions: Experimental and Computational Study. <i>Journal of Organic Chemistry</i> , 2010, 75, 6969-6972.	1.7	5
36	Impact of the $\alpha$ -Ferrocenyl Group on the Solvolytic Reactivity - Electrofugality - of Ferrocenylphenylmethyl Cations. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 537-546.	1.2	4

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37	Excitation spectra for degenerate rearrangements. Computational and Theoretical Chemistry, 1995, 341, 157-164.	1.5	3
38	Notes on isocodal graphs. Journal of Chemical Information and Computer Sciences, 1995, 35, 871-873.	2.8	3
39	Lyotropic Liquid Crystalline Phases from Symmetric Double-Tailed Surfactants: Sodium 1-Undecylbenzenesulfonate, 1-Tridecylbenzenesulfonate, and 1-(8)-Pentadecylbenzenesulfonate in Water. Journal of Colloid and Interface Science, 1998, 208, 129-136.	5.0	3
40	Pivaloylated glucoconjugates with heterocyclic oximes. Structural Chemistry, 2006, 17, 337-346.	1.0	3
41	A note on the number of spanning trees in buckminsterfullerene. International Journal of Quantum Chemistry, 1994, 52, 525-528.	1.0	2
42	Oxime rearrangements: ab initio calculations and reactions in the solid state. Perkin Transactions II RSC, 2002, , 2154-2158.	1.1	2
43	Comparison of DFT Methods for the Investigation of the Reduction Mechanisms of Aromatic Nitro- and Nitroso Compounds. Croatica Chemica Acta, 2016, 89, 31-35.	0.1	2
44	Benzenoid graphs with equal maximum eigenvalues. Journal of Mathematical Chemistry, 1994, 15, 407-407.	0.7	1
45	The walk ID number revisited. [Erratum to document cited in CA118:146918]. Journal of Chemical Information and Computer Sciences, 1995, 35, 786-786.	2.8	0
46	Experimental and Theoretical IR Spectra of 2-Nitrosopyridines. Croatica Chemica Acta, 2021, 93, .	0.1	0