MÃ¡ria VilkovÃ¡

List of Publications by Year
in descending order

60 papers	1,108 citations	516561 16 h-index	434063 31 g-index
62 all docs	62 docs citations	62 times ranked	1236 citing authors

#	Article	IF	Citations
1	Deep eutectic solvents vs ionic liquids: Similarities and differences. Microchemical Journal, 2020, 159, 105539.	2.3	243
2	The role of water in deep eutectic solvent-base extraction. Journal of Molecular Liquids, 2020, 304, 112747.	2.3	134
3	Coumarins of Matricaria chamomilla L.: Aglycones and glycosides. Food Chemistry, 2013, 141, 54-59.	4.2	61
4	Stereochemistry, tautomerism, and reactions of acridinyl thiosemicarbazides in the synthesis of 1,3â€thiazolidines. Journal of Heterocyclic Chemistry, 2006, 43, 645-656.	1.4	45
5	Modulation of phenolic metabolism under stress conditions in a Lotus japonicus mutant lacking plastidic glutamine synthetase. Frontiers in Plant Science, 2015, 6, 760.	1.7	42
6	New silver complexes with bioactive glycine and nicotinamide molecules â€“ Characterization, DNA binding, antimicrobial and anticancer evaluation. Journal of Inorganic Biochemistry, 2017, 168, 1-12.	1.5	40
7	Structure-activity relationship of acridine derivatives to amyloid aggregation of lysozyme. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 465-474.	1.1	31
8	New chalcone derivative exhibits antiproliferative potential by inducing G2/M cell cycle arrest, mitochondrial-mediated apoptosis and modulation of MAPK signalling pathway. Chemico-Biological Interactions, 2018, 292, 37-49.	1.7	31
9	Antiproliferative Effect of Acridine Chalcone Is Mediated by Induction of Oxidative Stress. Biomolecules, 2020, 10, 345.	1.8	30
10	New spiro tria(thia)zolidineâ¿¿acridines as topoisomerase inhibitors, DNA binders and cytostatic compounds. International Journal of Biological Macromolecules, 2016, 86, 690-700.	3.6	25
11	Mechanochemical approach for the capping of mixed core CdS/ZnS nanocrystals: Elimination of cadmium toxicity. Journal of Colloid and Interface Science, 2017, 486, 97-111.	5.0	25
12	A common approach to the total synthesis of l-arabino-, l-ribo-C18-phytosphingosines, ent-2-epi-jaspine B and 3-epi-jaspine B from d-mannose. Tetrahedron, 2013, 69, 8228-8244.	1.0	23
13	Low-dimensional compounds containing bioactive ligands. Part VIII: DNA interaction, antimicrobial and antitumor activities of ionic 5,7-dihalo-8-quinolinolato palladium(II) complexes with K+ and Cs+ cations. Journal of Inorganic Biochemistry, 2017, 167, 80-88.	1.5	20
14	Synthesis, characterization and spectral properties of novel azo-azomethine-tetracarboxylic Schiff base ligand and its Co(II), Ni(II), Cu(II) and Pd(II) complexes. Inorganica Chimica Acta, 2021, 515, 120064.	1.2	20
15	Spontaneous cyclization of (acridin-9-ylmethyl)thioureas to spiro [dihydroacridine-9â€²(10â€²H),5-imidazolidine]-2-thiones, a novel type of acridine spirocycles. Tetrahedron, 2014, 70, 944-961.	1.0	19
16	Unusual structures derived from Nâ€acridinâ€9â€yl methyl Nâ€²â€acridinâ€9â€yl thiourea based on the propensity of Nâ€10 to retain H. Journal of Heterocyclic Chemistry, 2006, 43, 739-743.	1.4	18
17	A Comparative Study of Isolated Secondary Metabolites from Lichens and Their Antioxidative Properties. Plants, 2022, 11, 1077.	1.6	18
18	Spectroscopic and computational study of a new thiazolylazonaphthol dye 1-[(5-(3-nitrobenzyl)-1,3-thiazol-2-yl)diazenyl]naphthalen-2-ol. Journal of Molecular Liquids, 2020, 304, 112713.	2.3	16

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19	Mechanochemical Synthesis and Isomerization of N-Substituted Indole-3-carboxaldehyde Oximes â€. Molecules, 2019, 24, 3347.	1.7	14
20	Oxidative stress mediated by gyrophoric acid from the lichen Umbilicaria hirsuta affected apoptosis and stress/survival pathways in HeLa cells. BMC Complementary and Alternative Medicine, 2019, 19, 221.	3.7	13
21	DNA binding, anti-tumour activity and reactivity toward cell thiols of acridin-9-ylalkenoic derivatives. Journal of Chemical Sciences, 2015, 127, 931-940.	0.7	12
22	Stereoselective synthesis and anticancer activity of broussonetine analogues. Tetrahedron: Asymmetry, 2017, 28, 1175-1182.	1.8	12
23	Synthesis and isomerization of acridine substituted 1,3-thiazolidin-4-ones and 4-oxo-1,3-thiazolidin-5-ylidene acetates. An experimental and computational study. Journal of Molecular Structure, 2018, 1154, 152-164.	1.8	12
24	New Chalcone Derivative Inhibits ABCB1 in Multidrug Resistant T-cell Lymphoma and Colon Adenocarcinoma Cells. Anticancer Research, 2019, 39, 6499-6505.	0.5	12
25	A stereoselective total synthesis of the HCl salts of mycestericins F, G and ent-F. Tetrahedron: Asymmetry, 2013, 24, 121-133.	1.8	11
26	Low-dimensional compounds containing bioactive ligands. Part XII: Synthesis, structures, spectra, in vitro antimicrobial and cytotoxic activities of zinc(II) complexes with halogen derivatives of quinolin-8-ol. Polyhedron, 2019, 170, 447-457.	1.0	11
27	An in vitro selective inhibitory effect of silver(<scp>i</scp>) aminoacidates against bacteria and intestinal cell lines and elucidation of the mechanism of action by means of DNA binding properties, DNA cleavage and cell cycle arrest. Dalton Transactions, 2021, 50, 936-953.	1.6	11
28	Acridine Based N-Acylhydrazone Derivatives as Potential Anticancer Agents: Synthesis, Characterization and ctDNA/HSA Spectroscopic Binding Properties. Molecules, 2022, 27, 2883.	1.7	11
29	Prediction by ¹³C NMR of regioselectivity in 1,3â€dipolar cycloadditions of acridinâ€9â€yl dipolarophiles. Magnetic Resonance in Chemistry, 2016, 54, 8-16.	1.1	10
30	Novel 1-methoxyindole- and 2-alkoxyindole-based chalcones: design, synthesis, characterization, antiproliferative activity and DNA, BSA binding interactions. Medicinal Chemistry Research, 2021, 30, 897-912.	1.1	10
31	New spiroacridine derivatives with DNA-binding and topoisomerase I inhibition activity. Tetrahedron Letters, 2016, 57, 5592-5595.	0.7	9
32	Unexpected regiospecific formation and DNA binding of new 3-(acridin-9-yl)methyl-2-iminothiazolidin-4-ones. Journal of Chemical Sciences, 2016, 128, 269-277.	0.7	9
33	Synthesis, spectral characterization, DNA binding ability and anti-cancer screening of new acridine-based derivatives. Medicinal Chemistry Research, 2017, 26, 2309-2321.	1.1	9
34	Potential Effect of Pseudevernia furfuracea (L.) Zopf Extract and Metabolite Physodic Acid on Tumour Microenvironment Modulation in MCF-10A Cells. Biomolecules, 2021, 11, 420.	1.8	9
35	Toxic metal complexes of macrocyclic cyclen molecule â€“ synthesis, structure and complexing properties. Journal of Coordination Chemistry, 2017, 70, 1698-1712.	0.8	8
36	Ethylene Induction of Non-Enzymatic Metabolic Antioxidants in Matricaria chamomilla. Molecules, 2020, 25, 5720.	1.7	7

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37	Discovery of novel acridine-chalcone hybrids with potent DNA binding and antiproliferative activity against MDA-MB-231 and MCF-7 cells. Medicinal Chemistry Research, 2022, 31, 1323-1338.	1.1	7
38	Low-dimensional compounds containing cyanido groups. Part XXXI. First simultaneous nucleophilic addition of water and ethanol to dicyanonitrosomethanide anions in the presence of Co(II). Inorganica Chimica Acta, 2017, 456, 49-54.	1.2	6
39	In vitro biological evaluation and consideration about structure-activity relationship of silver(I) aminoacidate complexes. Journal of Inorganic Biochemistry, 2020, 210, 111170.	1.5	6
40	Antimicrobial and Anticancer Application of Silver(I) Dipeptide Complexes. Molecules, 2021, 26, 6335.	1.7	6
41	3-[(E)-(acridin-9â€²-ylmethylidene)amino]-1-substituted thioureas and their biological activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 180, 234-241.	2.0	5
42	Synthesis and biological activity of diastereoisomeric octahydro-1H-indole-5,6,7-triols, analogues of castanospermine. Tetrahedron, 2019, 75, 398-408.	1.0	5
43	Low-dimensional compounds containing bioactive ligands. Part XIII: Square planar anti-cancer Pd(II) complexes with halogenderivatives of 8-quinolinol and dimethylamine. Polyhedron, 2020, 184, 114535.	1.0	5
44	Contribution to the synthesis of polyhydroxylated indolizidines starting from sugar isothiocyanates. Tetrahedron: Asymmetry, 2016, 27, 346-351.	1.8	4
45	Synthesis, solution stability, and structural characterization of quinolinol-based silver(I) complexes. Journal of Coordination Chemistry, 2020, 73, 784-798.	0.8	4
46	Full NMR assignment of new acridinylâ€chalcones, pyrazolinoâ€acridines, and spiro[imidazo[1,5â€‹b]pyrazoleâ€4,9â€²â€acridines]. Magnetic Resonance in Chemistry, 2020, 58, 769-777.	1.1	4
47	Low-dimensional compounds containing bioactive ligands. Part XVII: Synthesis, structural, spectral and biological properties of hybrid organic-inorganic complexes based on [PdCl4]2â^' with derivatives of 8-hydroxyquinolinium. Journal of Inorganic Biochemistry, 2022, 228, 111697.	1.5	4
48	Strong deshielding in aromatic isoxazolines. Magnetic Resonance in Chemistry, 2016, 54, 17-27.	1.1	3
49	Interaction of the Zn(<scp>ii</scp>)â€“cyclen complex with aminomethylphosphonic acid: original simultaneous potentiometric and ³¹P NMR data treatment. New Journal of Chemistry, 2017, 41, 7253-7259.	1.4	3
50	Insights into physiological responses of mosses Physcomitrella patens and Pohlia drummondii to lichen secondary metabolites. Protoplasma, 2019, 256, 1585-1595.	1.0	3
51	¹H, ¹³C and ¹⁵N NMR of spiro acridines integrated with pyrrole scaffolds. Magnetic Resonance in Chemistry, 2020, 58, 204-214.	1.1	3
52	Dipeptide interactions with Zn(II)â€“cyclen artificial model for molecular recognition. Journal of Molecular Recognition, 2015, 28, 211-219.	1.1	2
53	Low-dimensional compounds containing bioactive ligands. Part XVI: Halogenated derivatives of 8-quinolinol N-oxides and their copper(II) complexes. Journal of Molecular Structure, 2021, 1246, 131144.	1.8	2
54	Mechanochemical synthesis of indolyl chalcones with antiproliferative activity. Green Chemistry Letters and Reviews, 2022, 15, 474-482.	2.1	2

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55	2-(Acridin-9-ylimino)-3-dimethylamino-1,3-thiazolidin-4-one. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, o231-o233.	0.4	1
56	A short synthesis of protected 3-deoxy-d-arabino-2-heptulosonates (DAH) from shikimic acid based on silyl group migration. Tetrahedron Letters, 2018, 59, 4620-4621.	0.7	1
57	Synthesis and mannosidase inhibitory profile of a small library of aminocyclitols from shikimic acid-derived scaffolds. Carbohydrate Research, 2020, 493, 108027.	1.1	1
58	Two New Isomers of Palmityl-4-hydroxycinnamate from Flowers of Taraxacum Species. Natural Product Communications, 2016, 11, 1934578X1601100.	0.2	0
59	Antiproliferative effect of new chalcone derivatives in human colorectal cancer HCT116 cells. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-9-10.	0.0	0
60	Low-dimensional compounds containing bioactive ligands. Part XVIII: Design, synthesis and crystal structural investigations of ionic heteroleptic Pd(II) complexes based on halo and nitro 8-hydroxyquinoline derivatives. Polyhedron, 2022, 219, 115800.	1.0	0