

Robert Musiol

List of Publications by Year in descending order

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75
papers

2,255
citations

201385

27
h-index

243296

44
g-index

78
all docs

78
docs citations

78
times ranked

2673
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifungal properties of new series of quinoline derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3592-3598.	1.4	249
2	An overview of quinoline as a privileged scaffold in cancer drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2017, 12, 583-597.	2.5	164
3	Investigating biological activity spectrum for novel quinoline analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1280-1288.	1.4	114
4	Investigating Biological Activity Spectrum for Novel Styrylquinazoline Analogues. <i>Molecules</i> , 2009, 14, 4246-4265.	1.7	67
5	Contribution to investigation of antimicrobial activity of styrylquinolines. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6960-6968.	1.4	61
6	Synthesis and characterization of quinoline-based thiosemicarbazones and correlation of cellular iron-binding efficacy to anti-tumor efficacy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5527-5531.	1.0	61
7	Anticancer activity of the thiosemicarbazones that are based on di-2-pyridine ketone and quinoline moiety. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 180-194.	2.6	61
8	Exploring the Anti-Cancer Activity of Novel Thiosemicarbazones Generated through the Combination of Retro-Fragments: Dissection of Critical Structure-Activity Relationships. <i>PLoS ONE</i> , 2014, 9, e110291.	1.1	61
9	Investigating biological activity spectrum for novel quinoline analogues 2: Hydroxyquinolinecarboxamides with photosynthesis-inhibiting activity. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 4490-4499.	1.4	53
10	Ring-substituted 4-Hydroxy-1H-quinolin-2-ones: Preparation and Biological Activity. <i>Molecules</i> , 2009, 14, 1145-1159.	1.7	49
11	The synthesis and anticancer activity of 2-styrylquinoline derivatives. A p53 independent mechanism of action. <i>European Journal of Medicinal Chemistry</i> , 2019, 177, 338-349.	2.6	46
12	The role of oxidative stress in activity of anticancer thiosemicarbazones. <i>Oncotarget</i> , 2018, 9, 17689-17710.	0.8	45
13	Investigating the Activity Spectrum for Ring-Substituted 8-Hydroxyquinolines. <i>Molecules</i> , 2010, 15, 288-304.	1.7	44
14	Investigating the anti-proliferative activity of styrylazanaphthalenes and azanaphthalenediones. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2664-2671.	1.4	44
15	Pyrrrolidinium-Based Ionic Liquids as Sustainable Media in Heat-Transfer Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11024-11033.	3.2	44
16	Design, Synthesis and In Vitro Activity of Anticancer Styrylquinolines. The p53 Independent Mechanism of Action. <i>PLoS ONE</i> , 2015, 10, e0142678.	1.1	44
17	Quinoline-based HIV Integrase Inhibitors. <i>Current Pharmaceutical Design</i> , 2013, 19, 1835-1849.	0.9	44
18	Anticancer activity of 4-phenyl-2,2',6'-terpyridines " behind the metal complexation. <i>European Journal of Medicinal Chemistry</i> , 2020, 189, 112039.	2.6	38

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19	An Efficient Microwave-Assisted Synthesis of Structurally Diverse Styrylquinolines. <i>Monatshefte für Chemie</i> , 2006, 137, 1211-1217.	0.9	37
20	Synthesis of 8-hydroxyquinoline glycoconjugates and preliminary assay of their 125 I,4-GaIT inhibitory and anti-cancer properties. <i>Bioorganic Chemistry</i> , 2019, 84, 326-338.	2.0	37
21	Molecular structure, FT-IR, FT-Raman, NBO, HOMO and LUMO, MEP, NLO and molecular docking study of 2-[(E)-2-(2-bromophenyl)ethenyl]quinoline-6-carboxylic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 184-197.	2.0	33
22	Design and synthesis of anticancer 1-hydroxynaphthalene-2-carboxanilides with a p53 independent mechanism of action. <i>Scientific Reports</i> , 2019, 9, 6387.	1.6	32
23	Phenothiazine derivatives - synthesis, characterization, and theoretical studies with an emphasis on the solvatochromic properties. <i>Journal of Molecular Liquids</i> , 2019, 285, 515-525.	2.3	31
24	Iron Chelators in Photodynamic Therapy Revisited: Synergistic Effect by Novel Highly Active Thiosemicarbazones. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 336-339.	1.3	30
25	Small molecule glycoconjugates with anticancer activity. <i>European Journal of Medicinal Chemistry</i> , 2016, 112, 130-144.	2.6	30
26	Blocking and dislocation of <i>Candida albicans</i> Cdr1p transporter by styrylquinolines. <i>International Journal of Antimicrobial Agents</i> , 2017, 50, 171-176.	1.1	29
27	Quinoline Fluorescent Probes for Zinc $^{2+}$ from Diagnostic to Therapeutic Molecules in Treating Neurodegenerative Diseases. <i>Medicinal Chemistry</i> , 2018, 14, 19-33.	0.7	29
28	Prodrugs in Photodynamic Anticancer Therapy. <i>Current Pharmaceutical Design</i> , 2011, 17, 3548-3559.	0.9	28
29	Theoretical and Experimental Investigations of Large Stokes Shift Fluorophores Based on a Quinoline Scaffold. <i>Molecules</i> , 2020, 25, 2488.	1.7	28
30	Investigation of the Biological Properties of (Hetero)Aromatic Thiosemicarbazones. <i>Molecules</i> , 2012, 17, 13483-13502.	1.7	27
31	Spectroscopic (FT-IR, FT-Raman) investigations and quantum chemical calculations of 4-hydroxy-2-oxo-1,2-dihydroquinoline-7-carboxylic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 404-414.	2.0	24
32	Ligand-Based Virtual Screening in a Search for Novel Anti-HIV-1 Chemotypes. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2168-2177.	2.5	23
33	Comprehensive exploration of the optical and biological properties of new quinoline based cellular probes. <i>Dyes and Pigments</i> , 2017, 144, 119-132.	2.0	23
34	New approaches to the synthesis of diphosphine dioxides and hypophosphoric acid esters. <i>Heteroatom Chemistry</i> , 2006, 17, 310-316.	0.4	21
35	PiperazinyI fragment improves anticancer activity of Triapine. <i>PLoS ONE</i> , 2018, 13, e0188767.	1.1	21
36	Synthesis of New Styrylquinoline Cellular Dyes, Fluorescent Properties, Cellular Localization and Cytotoxic Behavior. <i>PLoS ONE</i> , 2015, 10, e0131210.	1.1	20

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37	Vibrational spectroscopic studies and molecular docking study of 2-[(E)-2-phenylethenyl]quinoline-5-carboxylic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 190-199.	2.0	20
38	Developing [60]Fullerene Nanomaterials for Better Photodynamic Treatment of Non-Melanoma Skin Cancers. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5930-5940.	2.6	20
39	Glycofullerenes as non-receptor tyrosine kinase inhibitors- towards better nanotherapeutics for pancreatic cancer treatment. <i>Scientific Reports</i> , 2020, 10, 260.	1.6	20
40	New derivatives of 4-phenyl-2,6-terpyridine as promising anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 113032.	2.6	20
41	Microwave-Assisted Heterocyclic Chemistry for Undergraduate Organic Laboratory. <i>Journal of Chemical Education</i> , 2006, 83, 632.	1.1	18
42	Intermolecular interactions in the crystal structures of potential HIV-1 integrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 1005-1009.	1.0	18
43	New quinolone derivative: Spectroscopic characterization and reactivity study by DFT and MD approaches. <i>Journal of Molecular Structure</i> , 2017, 1135, 1-14.	1.8	18
44	Trisubstituted Imidazolium-Based Ionic Liquids as Innovative Heat Transfer Media in Sustainable Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7960-7968.	3.2	18
45	Vibrational spectroscopic, ¹ H NMR and quantum chemical computational study of 4-hydroxy-2-oxo-1,2-dihydroquinoline-8-carboxylic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 445-456.	2.0	17
46	Microwave assisted synthesis, X-ray crystallography and DFT calculations of selected aromatic thiosemicarbazones. <i>Journal of Molecular Structure</i> , 2013, 1037, 63-72.	1.8	16
47	4-Phenyl-2,6-terpyridine Derivatives Containing 1-Substituted-3-Triazole Ring: Synthesis, Characterization and Anticancer Activity. <i>ChemistrySelect</i> , 2018, 3, 7009-7017.	0.7	16
48	The Antimicrobial Activity of <i>Annona emarginata</i> (Schltdl.) H. Rainer and Most Active Isolated Compounds against Clinically Important Bacteria. <i>Molecules</i> , 2018, 23, 1187.	1.7	16
49	X-ray and molecular modelling in fragment-based design of three small quinoline scaffolds for HIV integrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1606-1612.	1.4	15
50	Vibrational spectroscopic and molecular docking study of (2 E)- N-(4-chloro-2-oxo-1,2-dihydroquinolin-3-yl)-3-phenylprop-2-enamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 335-349.	2.0	15
51	Iron Chelators and Exogenic Photosensitizers. Synergy through Oxidative Stress Gene Expression. <i>Journal of Cancer</i> , 2017, 8, 1979-1987.	1.2	15
52	Quinoline Alkaloids Against Neglected Tropical Diseases. <i>Current Organic Chemistry</i> , 2017, 21, .	0.9	15
53	The p53 stabilizing agent CP-31398 and multi-kinase inhibitors. Designing, synthesizing and screening of styrylquinazoline series. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 610-625.	2.6	14
54	Styrylquinoline – A Versatile Scaffold in Medicinal Chemistry. <i>Medicinal Chemistry</i> , 2020, 16, 141-154.	0.7	14

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55	Terpyridines as promising antitumor agents: an overview of their discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2022, 17, 259-271.	2.5	14
56	Bioactivity of Methoxylated and Methylated 1-Hydroxynaphthalene-2-Carboxanilides: Comparative Molecular Surface Analysis. <i>Molecules</i> , 2019, 24, 2991.	1.7	13
57	Antifungal Styryloquinolines as <i>Candida albicans</i> Efflux Pump Inhibitors: Styryloquinolines are ABC Transporter Inhibitors. <i>Molecules</i> , 2020, 25, 345.	1.7	13
58	Novel Benzenesulfonate Scaffolds with a High Anticancer Activity and G2/M Cell Cycle Arrest. <i>Cancers</i> , 2021, 13, 1790.	1.7	11
59	RP-HPLC determination of lipophilicity in series of quinoline derivatives. <i>Open Chemistry</i> , 2009, 7, 586-597.	1.0	10
60	Acid selective pro-dye for cellular compartments. <i>Scientific Reports</i> , 2019, 9, 15304.	1.6	10
61	Investigation of the Antimycobacterial Activity of 8-Hydroxyquinolines. <i>Medicinal Chemistry</i> , 2015, 11, 771-779.	0.7	10
62	The Landscape of the Anti-Kinase Activity of the IDH1 Inhibitors. <i>Cancers</i> , 2020, 12, 536.	1.7	9
63	Microwave-Assisted 1,3-dipolar Cycloadditions to Nitrogen Containing Heterocycles. <i>Current Organic Chemistry</i> , 2015, 19, 1410-1427.	0.9	9
64	Anticancer potential and through study of the cytotoxicity mechanism of ionic liquids that are based on the trifluoromethanesulfonate and bis(trifluoromethylsulfonyl)imide anions. <i>Journal of Hazardous Materials</i> , 2022, 427, 128160.	6.5	8
65	Comparative Study of the High Pressure Thermophysical Properties of 1-Ethyl-3-methylimidazolium and 1,3-Diethylimidazolium Ethyl Sulfates for Use as Sustainable and Efficient Hydraulic Fluids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10934-10943.	3.2	7
66	Towards water-soluble [60]fullerenes for the delivery of siRNA in a prostate cancer model. <i>Scientific Reports</i> , 2021, 11, 10565.	1.6	7
67	Synthesis and applications of [60]fullerene nanoconjugate with 5-aminolevulinic acid and its glycoconjugate as drug delivery vehicles. <i>RSC Advances</i> , 2022, 12, 6377-6388.	1.7	6
68	Inclusion-dependent mechanism of modification of cyclodextrins with heterocycles. <i>Open Chemistry</i> , 2005, 3, 742-746.	1.0	4
69	Electrolytic copper as cheap and effective catalyst for one-pot triazole synthesis. <i>Scientific Reports</i> , 2018, 8, 4496.	1.6	4
70	Investigation of antibacterial and cytotoxic potential of phenolics derived from <i>Cistus incanus</i> L. by means of thin-layer chromatography-direct bioautography and cytotoxicity assay. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2018, 41, 349-357.	0.5	4
71	The Usefulness of X-ray Diffraction and Thermal Analysis to Study Dietary Supplements Containing Iron. <i>Molecules</i> , 2022, 27, 197.	1.7	4
72	Simple Rules for Complex Near-Glass-Transition Phenomena in Medium-Sized Schiff Bases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5185.	1.8	3

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73	Glass-forming Schiff bases: Peculiar self-organizing systems with bifurcated hydrogen bonds. Journal of Molecular Liquids, 2021, , 118052.	2.3	2
74	Selected AChE reactivators in different crystalline environment: salts and enzyme. Structural Chemistry, 2010, 21, 495-501.	1.0	1
75	Preparation and Hydro-Lipophilic Properties of Methoxylated and Methylated 1-Hydroxynaphthalene-2-Carboxanilides. Proceedings (mdpi), 2018, 9, .	0.2	1