

Miroslav A Rangelov

List of Publications by Year in descending order

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papers

462
citations

623734

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34
all docs

34
docs citations

34
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	The syn-Oriented 2-OH Provides a Favorable Proton Transfer Geometry in 1,2-Diol Monoester Aminolysis: Implications for the Ribosome Mechanism. <i>Journal of the American Chemical Society</i> , 2006, 128, 4964-4965.	13.7	50
2	Interaction of Na ⁺ , K ⁺ , Mg ²⁺ and Ca ²⁺ counter cations with RNA. <i>Metallomics</i> , 2018, 10, 659-678.	2.4	42
3	Synthesis, anticancer activity and photostability of novel 3-ethyl-2-mercapto-thieno[2,3-d]pyrimidin-4(1H)-one. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1032-1042.	10.784314	32
4	Caffeoylquinic Acids, Cytotoxic, Antioxidant, Acetylcholinesterase and Tyrosinase Enzyme Inhibitory Activities of Six <i>Inula</i> Species from Bulgaria. <i>Chemistry and Biodiversity</i> , 2020, 17, e2000051.	2.1	31
5	Discovery of novel indole-based arylhydrazones as anticonvulsants: Pharmacophore-based design. <i>Bioorganic Chemistry</i> , 2019, 90, 103028.	4.1	28
6	2'-O-peptidyl Adenosine as a General Base Catalyst of its Own External Peptidyl Transfer: Implications for the Ribosome Catalytic Mechanism. <i>ChemBioChem</i> , 2005, 6, 992-996.	2.6	25
7	Two 6-(propan-2-yl)-4-methyl-morpholine-2,5-diones as new non-purine xanthine oxidase inhibitors and anti-inflammatory agents. <i>Food and Chemical Toxicology</i> , 2013, 55, 493-497.	3.6	21
8	Molecular Mechanism of the Anti-Inflammatory Action of Heparin. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10730.	4.1	20
9	Density Functional Study of Hydrogen Bond Formation between Methanol and Organic Molecules Containing Cl, F, NH ₂ , OH, and COOH Functional Groups. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14054-14068.	2.5	19
10	Anticonvulsant evaluation and docking analysis of <i>Vincemorphine</i> analogues. <i>Drug Development Research</i> , 2019, 80, 425-437.	2.9	19
11	Catalytic Role of Vicinal OH in Ester Aminolysis: Proton Shuttle versus Hydrogen Bond Stabilization. <i>Journal of Organic Chemistry</i> , 2010, 75, 6782-6792.	3.2	18
12	Evaluation of the combined activity of benzimidazole arylhydrazones as new anti-Parkinsonian agents: monoamine oxidase-B inhibition, neuroprotection and oxidative stress modulation. <i>Neural Regeneration Research</i> , 2021, 16, 2299.	3.0	17
13	Theoretical study of the o-OH participation in catechol ester ammonolysis. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 737.	2.8	16
14	Ab Initio Molecular Dynamics of Na ⁺ and Mg ²⁺ Counterions at the Backbone of RNA in Water Solution. <i>ACS Chemical Biology</i> , 2013, 8, 1576-1589.	3.4	16
15	Quantum chemical model study of the acyl migration in 2'-O-(2-thioethyl)-formyl nucleosides. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 1346-1356.	2.0	13
16	Unambiguous Evidence for Efficient Chemical Catalysis of Adenosine Ester Aminolysis by Its 2'-OH. <i>Journal of the American Chemical Society</i> , 2007, 129, 5790-5791.	13.7	13
17	Synthesis, characterization and anticonvulsant activity of new series of N-modified analogues of <i>Vincemorphine</i> -5 with aminophosphonate moiety. <i>Amino Acids</i> , 2019, 51, 1527-1545.	2.7	13
18	Chemical evolution: from formamide to nucleobases and amino acids without the presence of catalyst. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5563-5578.	3.5	11

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19	Study on the Neuroprotective, Radical-Scavenging and MAO-B Inhibiting Properties of New Benzimidazole Arylhydrazones as Potential Multi-Target Drugs for the Treatment of Parkinson's Disease. <i>Antioxidants</i> , 2022, 11, 884.	5.1	10
20	Structure-activity relationship study on new hemorphin-4 analogues containing steric restricted amino acids moiety for evaluation of their anticonvulsant activity. <i>Amino Acids</i> , 2020, 52, 1375-1390.	2.7	8
21	Evaluation of the anticonvulsant effect of novel melatonin derivatives in the intravenous pentylenetetrazol seizure test in mice. <i>European Journal of Pharmacology</i> , 2019, 863, 172684.	3.5	7
22	Biological activity of quinazoline analogues and molecular modeling of their interactions with G-quadruplexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129773.	2.4	6
23	Hierarchical approach to conformational search and selection of computational method in modeling the mechanism of ester ammonolysis. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 246-255.	2.4	5
24	Binding of Gold(III) Porphyrin by the Pro-metastatic Regulatory Protein Human Galectin-3. <i>Molecules</i> , 2019, 24, 4561.	3.8	5
25	New C2- and N3-Modified Thieno[2,3-d]Pyrimidine Conjugates with Cytotoxicity in the Nanomolar Range. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2022, 22, 1201-1212.	1.7	5
26	Synthesis and characterization of new 5,5'-dimethyl- and 5,5'-diphenylhydantoin-conjugated hemorphin derivatives designed as potential anticonvulsant agents. <i>New Journal of Chemistry</i> , 2022, 46, 2198-2217.	2.8	5
27	Black Sea. , 2019, , 209-226.		2
28	Design and Synthesis of Substrates for Model Ribosomal Reactions. <i>Protein and Peptide Letters</i> , 2009, 16, 392-401.	0.9	1
29	Determination of the optimal position of adjacent proton-donor centers for the activation or inhibition of peptide bond formation - A computational model study. <i>Journal of Molecular Graphics and Modelling</i> , 2011, 30, 10-14.	2.4	1
30	Anti-Idiotype scFv Localizes an Autoepitope in the Globular Domain of C1q. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8288.	4.1	1
31	Differential effect of vitamins and plant growth regulators on sesquiterpene lactones and phenolic acids accumulation of <i>Inula britannica</i> L. shoot cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 147, 21-35.	2.3	0
32	Chemical characterization, antioxidant activity, α -amylase and acetylcholinesterase inhibitory potential of <i>Angelica panicii</i> Vandas ex Velen. <i>Boletín Latinoamericano Y Del Caribe De Plantas Medicinales Y Aromaticas</i> , 2022, 21, 418-430.	0.5	0