List of Publications by Year in descending order

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VESNA ΚΟΠΆΤ

#	Article	IF	CITATIONS
1	Anti-cancer effects of cerium oxide nanoparticles and its intracellular redox activity. Chemico-Biological Interactions, 2015, 232, 85-93.	1.7	132
2	Antimicrobial activity and biocompatibility of Ag+- and Cu2+-doped biphasic hydroxyapatite(α-tricalcium phosphate obtained from hydrothermally synthesized Ag+- and Cu2+-doped hydroxyapatite. Applied Surface Science, 2014, 307, 513-519.	3.1	119
3	Modulating activity of fullerol C60(OH)22 on doxorubicin-induced cytotoxicity. Toxicology in Vitro, 2004, 18, 629-637.	1.1	116
4	An insight into the cytotoxic activity of phytol at <i>in vitro</i> conditions. Natural Product Research, 2014, 28, 2053-2056.	1.0	102
5	Silver/poly(vinyl alcohol)/chitosan/graphene hydrogels – Synthesis, biological and physicochemical properties and silver release kinetics. Composites Part B: Engineering, 2018, 154, 175-185.	5.9	60
6	Chitosan-based hydrogel wound dressings with electrochemically incorporated silver nanoparticles – In vitro study. European Polymer Journal, 2019, 121, 109257.	2.6	59
7	Gentamicin-Loaded Bioactive Hydroxyapatite/Chitosan Composite Coating Electrodeposited on Titanium. ACS Biomaterials Science and Engineering, 2018, 4, 3994-4007.	2.6	58
8	Synthesis and antiproliferative activity of two new tiazofurin analogues with 2â€2-amido functionalities. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2773-2776.	1.0	49
9	Mg/Cu co-substituted hydroxyapatite – Biocompatibility, mechanical properties and antimicrobial activity. Ceramics International, 2019, 45, 22029-22039.	2.3	46
10	Effect of TNF-α on Raji cells at different cellular levels estimated by various methods. Annals of Hematology, 2006, 85, 86-94.	0.8	43
11	Antibacterial <scp>grapheneâ€based</scp> hydroxyapatite/chitosan coating with gentamicin for potential applications in bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2020, 108, 2175-2189.	2.1	39
12	Divergent Synthesis of Cytotoxic Styryl Lactones from <scp>d</scp> -Xylose. The First Total Synthesis of (+)-Crassalactone C. Organic Letters, 2007, 9, 4235-4238.	2.4	38
13	Further <i>in vitro</i> evaluation of cytotoxicity of the marine natural product derivative 4′-leucine-avarone. Natural Product Research, 2014, 28, 347-350.	1.0	36
14	Synthesis and antitumour activity of new tiazofurin analogues bearing a 2,3-anhydro functionality in the furanose ring. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4123-4127.	1.0	35
15	Synthesis of some epoxy and/or N-oxy 17-picolyl and 17-picolinylidene-androst-5-ene derivatives and evaluation of their biological activity. Steroids, 2008, 73, 129-138.	0.8	35
16	Chitosan oligosaccharide lactate coated hydroxyapatite nanoparticles as a vehicle for the delivery of steroid drugs and the targeting of breast cancer cells. Journal of Materials Chemistry B, 2018, 6, 6957-6968.	2.9	33
17	Cytotoxicity and fibroblast properties during in vitro test of biphasic calcium phosphate/poly-dl-lactide-co-glycolide biocomposites and different phosphate materials. Microscopy Research and Technique, 2006, 69, 976-982.	1.2	32
18	Enantiodivergent synthesis of cytotoxic styryl lactones from d-xylose. The first total synthesis of (+)- and (â^')-crassalactone C. Tetrahedron, 2009, 65, 10596-10607.	1.0	31

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19	Toxicity reduction of imidazolium-based ionic liquids by the oxygenation of the alkyl substituent. RSC Advances, 2016, 6, 96289-96295.	1.7	31
20	Antitumor effects of a tetradentate amido-carboxylate ligands and corresponding square-planar palladium(II) complexes toward some cancer cells. Crystal structure, DFT modeling and ligand to DNA probe Docking simulation. Journal of Inorganic Biochemistry, 2013, 121, 134-144.	1.5	30
21	Stictic acid inhibits cell growth of human colon adenocarcinoma HT-29 cells. Arabian Journal of Chemistry, 2017, 10, S1240-S1242.	2.3	30
22	Design, synthesis and antiproliferative activity of styryl lactones related to (+)-goniofufurone. European Journal of Medicinal Chemistry, 2010, 45, 2876-2883.	2.6	29
23	Synthesis and cytotoxic activity of some 17-picolyl and 17-picolinylidene androstane derivatives. European Journal of Medicinal Chemistry, 2012, 54, 784-792.	2.6	29
24	Assessing the Bioactivity of Gentamicin-Preloaded Hydroxyapatite/Chitosan Composite Coating on Titanium Substrate. ACS Omega, 2020, 5, 15433-15445.	1.6	29
25	Enantiodivergent synthesis of muricatacin related lactones from d-xylose based on the latent symmetry concept: preparation of twoÂnovel cytotoxic (+)- and (â^)-muricatacin 7-oxa analogs. Tetrahedron, 2006, 62, 11044-11053.	1.0	26
26	A selective laser melted Co-Cr alloy used for the rapid manufacture of removable partial denture frameworks: Initial screening of biocompatibility. Journal of the Serbian Chemical Society, 2011, 76, 43-52.	0.4	25
27	Selective anticancer activity of hydroxyapatite/chitosan-poly(d,l)-lactide-co-glycolide particles loaded with an androstane-based cancer inhibitor. Colloids and Surfaces B: Biointerfaces, 2016, 148, 629-639.	2.5	25
28	Wittig reaction with partially protected sugar lactol derivatives. Preparation of highly cytotoxic goniofufurone analogues. Tetrahedron Letters, 2004, 45, 9409-9413.	0.7	24
29	Synthesis and in vitro antitumour screening of 2-(β-d-xylofuranosyl)thiazole-4-carboxamide and two novel tiazofurin analogues with substituted tetrahydrofurodioxol moiety as a sugar mimic. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6700-6704.	1.0	24
30	2-(3-Amino-3-deoxy-β-d-xylofuranosyl)thiazole-4-carboxamide: A new tiazofurin analogue with potent antitumour activity. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5317-5320.	1.0	23
31	overflow="scroll"> <mml:msup><mml:mrow><mml:mo stretchy="false"&gt;   <mml:mi>f</mml:mi><mml:mo stretchy="false"&gt;   </mml:mo </mml:mo </mml:mrow><mml:mi>p</mml:mi></mml:msup> for ouasiregular harmonic functions, with applications, Journal of Mathematical Analysis and	0.5	23
32	Applications, 2008, 342, 742-746. An intramolecular one-pot synthesis of steroidal triazoles via 1,3-dipolar cycloadditions of in situ generated diazo compounds. Tetrahedron Letters, 2009, 50, 4107-4109.	0.7	23
33	Biocompatibility and antimicrobial activity of zinc(II) doped hydroxyapatite, synthesized by hydrothermal method. Journal of the Serbian Chemical Society, 2012, 77, 1787-1798.	0.4	23
34	The effect of grain size on the biocompatibility, cell–materials interface, and mechanical properties of microwaveâ€sintered bioceramics. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3059-3070.	2.1	21
35	Quasi-nearly subharmonic functions and conformal mappings. Filomat, 2007, 21, 243-249.	0.2	21
36	Synthesis, structural analysis and antiproliferative activity of some novel D-homo lactone androstane derivatives. RSC Advances, 2013, 3, 10385.	1.7	20

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37	Androstane derivatives induce apoptotic death in MDA-MB-231 breast cancer cells. Bioorganic and Medicinal Chemistry, 2015, 23, 7189-7198.	1.4	20
38	Conformationally constrained goniofufurone mimics as inhibitors of tumour cells growth: Design, synthesis and SAR study. European Journal of Medicinal Chemistry, 2014, 82, 449-458.	2.6	19
39	Evaluation of in silico pharmacokinetic properties and in vitro cytotoxic activity of selected newly synthesized N-succinimide derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2017, 137, 252-257.	1.4	19
40	Growth Effects of Some Platinum(II) Complexes with Sulfur-Containing Carrier Ligands on MCF7 Human Breast Cancer Cell Line upon Simultaneous Administration with Taxol. Metal-Based Drugs, 2002, 9, 33-43.	3.8	18
41	Divergent synthesis of cytotoxic styryl lactones isolated from Polyalthia crassa. The first total synthesis of crassalactone B. Tetrahedron Letters, 2010, 51, 3426-3429.	0.7	18
42	Modification of Antioxidative and Antiapoptotic Genes Expression in irradiated K562 Cells Upon Fullerenol C <sub>60</sub> (OH) <sub>24</sub> Nanoparticle Treatment. Journal of Nanoscience and Nanotechnology, 2013, 13, 105-113.	0.9	18
43	De novo synthesis of two new cytotoxic tiazofurin analogues with modified sugar moieties. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 3167-3170.	1.0	17
44	Synthesis andÂantitumour activity ofÂnew muricatacin andÂgoniofufurone analogues. European Journal of Medicinal Chemistry, 2006, 41, 1217-1222.	2.6	17
45	Design, synthesis and inÂvitro antitumour activity of new goniofufurone and 7- epi -goniofufurone mimics with halogen or azido groups at the C-7 position. European Journal of Medicinal Chemistry, 2017, 128, 13-24.	2.6	17
46	Synthesis, Spectroscopy and in vitro Cytotoxicity of New Hydroxyanthraquinonato Triorganotin Compounds. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 41-51.	0.6	16
47	New antitumour agents with α,β-unsaturated δ-lactone scaffold: Synthesis and antiproliferative activity of (−)-cleistenolide and analogues. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3318-3321.	1.0	16
48	Synthesis and biological evaluation of a series of A,B-ring modified 16,17-secoandrostane derivatives. Bioorganic Chemistry, 2008, 36, 128-132.	2.0	15
49	Synthesis and antiproliferative activity of unnatural enantiomers of 7-epi-goniofufurone and crassalactone C. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5178-5181.	1.0	15
50	Synthesis and inÂvitro antitumour activity of tiazofurin analogues with nitrogen functionalities at the C-2′ position. European Journal of Medicinal Chemistry, 2016, 111, 114-125.	2.6	15
51	Synthesis and biological evaluation of two novel 2′-substituted tiazofurin analogues. Tetrahedron Letters, 2004, 45, 7125-7128.	0.7	14
52	Design, synthesis and antiproliferative activity of two new heteroannelated (â^')-muricatacin mimics. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5182-5185.	1.0	14
53	2-Substituted thiazole-4-carboxamide derivatives as tiazofurin mimics: synthesis and inÂvitro antitumour activity. Tetrahedron, 2014, 70, 2343-2350.	1.0	14
54	Design, synthesis and SAR analysis of antitumour styryl lactones related to (+)-crassalactones B and C. European Journal of Medicinal Chemistry, 2014, 87, 237-247.	2.6	14

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55	Novel goniofufurone and 7-epi-goniofufurone mimics from an unexpected titanium-mediated displacement process. Tetrahedron Letters, 2012, 53, 1819-1822.	0.7	13
56	Divergent total synthesis of crassalactones B and C and evaluation ofÂtheir antiproliferative activity. Tetrahedron, 2015, 71, 4581-4589.	1.0	13
57	Electrochemical Synthesis and Characterization of Silver Doped Poly(vinyl alcohol)/Chitosan Hydrogels. Corrosion, 2017, 73, 1437-1447.	0.5	13
58	Electrochemical and biocompatibility examinations of highâ€pressure torsion processed titanium and T i–13 N b–13 Z r alloy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1097-1107.	1.6	13
59	Anticancer and antimicrobial properties of imidazolium based ionic liquids with salicylate anion. Journal of the Serbian Chemical Society, 2020, 85, 291-303.	0.4	13
60	New A-homo lactam D-homo lactone androstane derivative: Synthesis and evaluation of cytotoxic and anti-inflammatory activities in vitro. Steroids, 2020, 157, 108596.	0.8	12
61	In vitro cytotoxicity assessment of the 3D printed polymer based epoxy resin intended for use in dentistry. Vojnosanitetski Pregled, 2019, 76, 502-509.	0.1	12
62	Synthesis of highly cytotoxic tiazofurin mimics bearing a 2,3-anhydro function in the furanose ring. Tetrahedron, 2009, 65, 7637-7645.	1.0	11
63	Heteroannelated (+)-muricatacin mimics: synthesis, antiproliferative properties and structure–activity relationships. Tetrahedron, 2011, 67, 9358-9367.	1.0	11
64	<i>In vitro</i> evaluation of cytotoxic and mutagenic activity of avarol. Natural Product Research, 2016, 30, 1293-1296.	1.0	11
65	Divergent Synthesis of Cytotoxic Styryl Lactones Related to Goniobutenolides A and B, and to Crassalactone D. Organic Letters, 2012, 14, 5956-5959.	2.4	10
66	Synthesis and cytotoxic evaluation of novel pyrimidine deoxyapiothionucleosides. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3364-3367.	1.0	10
67	Synthesis, structural analysis, solution equilibria and biological activity of rhodium( <scp>iii</scp> ) complexes with a quinquedentate polyaminopolycarboxylate. RSC Advances, 2017, 7, 5282-5296.	1.7	10
68	Synthesis and Biological Evaluation of Some A,D-Ring Modified 16,17-Secoandrostane Derivatives. Collection of Czechoslovak Chemical Communications, 2008, 73, 627-636.	1.0	9
69	Heteroannelated and 7-deoxygenated goniofufurone mimics with antitumour activity: Design, synthesis and preliminary SAR studies. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5507-5510.	1.0	9
70	Synthesis, Structure and In vitro Biological Activity of New Hydroxyâ€Naphthoquinonato Triorganotin Compounds. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 765-775.	0.6	8
71	Synthesis, Structural, DFT, and Cytotoxicity Studies of Cull and Nill Complexes with 3-Aminopyrazole Derivatives. Australian Journal of Chemistry, 2010, 63, 1557.	0.5	8
72	Synthesis and inÂvitro antitumour activity of crassalactone D, its stereoisomers and novel cinnamic ester derivatives. European Journal of Medicinal Chemistry, 2017, 134, 293-303.	2.6	8

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73	The effect of the androstane lung cancer inhibitor content on the cell-selective toxicity of hydroxyapatite-chitosan-PLGA nanocomposites. Materials Science and Engineering C, 2018, 89, 371-377.	3.8	8
74	The redox couple avarol/avarone in the fight with malignant gliomas: the case study of U-251 MG cells. Natural Product Research, 2018, 32, 616-620.	1.0	8
75	The chitosan-based bioactive composite coating on titanium. Journal of Materials Research and Technology, 2021, 15, 4461-4474.	2.6	8
76	Solution study under physiological conditions and cytotoxic activity of the gold(III) complexes with L-histidine-containing peptides. Journal of the Serbian Chemical Society, 2013, 78, 1911-1924.	0.4	7
77	Synthesis of novel pyrimidine apiothionucleosides and inÂvitro evaluation of their cytotoxicity. Tetrahedron, 2015, 71, 3396-3403.	1.0	7
78	A contribution to pharmaceutical biology of freshwater sponges. Natural Product Research, 2018, 32, 568-571.	1.0	7
79	Further insights into ruthenium(II) piano-stool complexes with N-alkyl imidazoles. Inorganica Chimica Acta, 2018, 483, 359-370.	1.2	7
80	Poly(vinyl alcohol)/chitosan hydrogels with electrochemically synthesized silver nanoparticles for wound dressing applications. Journal of Electrochemical Science and Engineering, 2020, 10, 185-198.	1.6	7
81	Synthesis and cytotoxic activity of a series of bile acid derivatives. Hemijska Industrija, 2009, 63, 313-318.	0.3	7
82	X-ray structural analysis, antioxidant and cytotoxic activity of newly synthesized salicylic acid derivatives. Structural Chemistry, 2010, 21, 67-78.	1.0	6
83	Synthesis, cytotoxic activity, and thermal studies of novel <i>N</i> â€{(1,3â€diphenylpyrazolâ€4â€yl)methyl] αâ€amino acids. Journal of Heterocyclic Chemistry, 2010, 47, 850-856.	1.4	6
84	Antitumour tiazofurin analogues embedded with an amide moiety at the C-2′ position. Tetrahedron, 2011, 67, 6847-6858.	1.0	6
85	X-ray structural analysis and antitumor activity of new salicylic acid derivatives. Structural Chemistry, 2014, 25, 1747-1758.	1.0	6
86	In vitro antitumor activity, ADME-Tox and 3D-QSAR of synthesized and selected natural styryl lactones. Computational Biology and Chemistry, 2019, 83, 107112.	1.1	6
87	Raspberry seeds extract selectively inhibits the growth of human lung cancer cells <i>in vitro</i> . Natural Product Research, 2021, 35, 2253-2256.	1.0	6
88	Structural analysis and biomedical potential of novel salicyloyloxy estrane derivatives synthesized by microwave irradiation. Structural Chemistry, 2016, 27, 947-960.	1.0	5
89	Synthesis and antiproliferative activity of goniobutenolides A and B, 5-halogenated crassalactone D derivatives and the corresponding 7-epimers. European Journal of Medicinal Chemistry, 2016, 108, 594-604.	2.6	5
90	Functionalized Periodic Mesoporous Organosilica Nanoparticles for Loading and Delivery of Suramin. Inorganics, 2019, 7, 16.	1.2	5

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91	Synthesis, antiproliferative activity and SAR analysis of (â^')-cleistenolide and analogues. European Journal of Medicinal Chemistry, 2020, 202, 112597.	2.6	5
92	Design, synthesis, and biological evaluation of thiazole bioisosteres of goniofufurone through in vitro antiproliferative activity and in vivo toxicity. Bioorganic Chemistry, 2022, 121, 105691.	2.0	5
93	Natural product protulactone A: Total synthesis from D-galactose, X-ray analysis and biological evaluation. Bioorganic Chemistry, 2022, 127, 105980.	2.0	5
94	Rhodium(III) in a cage of the 1,3-propanediamine-N,N,N′-triacetate chelate: X-ray structure, solution equilibria, computational study and biological behavior. Polyhedron, 2018, 156, 19-30.	1.0	4
95	Conformationally restricted goniofufurone mimics with halogen, azido or benzoyloxy groups at the C-7 position: Design, synthesis and antiproliferative activity. Tetrahedron, 2018, 74, 4761-4768.	1.0	4
96	Synthesis and biological activity evaluation of new functionally substituted 5-arylidene-2,4-dioxotetrahydro-1,3-thiazoles. Journal of the Serbian Chemical Society, 2006, 71, 861-866.	0.4	4
97	Synthesis, anti-oxidant activity, and cytotoxicity of salicyloyl derivatives of estra-1,3,5(10)-triene and androst-5-ene. Chemical Papers, 2012, 66, .	1.0	3
98	Novel O-methyl goniofufurone and 7-epi-goniofufurone derivatives: synthesis, in vitro cytotoxicity and SAR analysis. MedChemComm, 2018, 9, 2017-2027.	3.5	3
99	Structure based design, synthesis and inÂvitro antitumour activity of tiazofurin stereoisomers with nitrogen functions at the C-2′ or C-3′ positions. European Journal of Medicinal Chemistry, 2019, 183, 111712.	2.6	3
100	Asymmetric synthesis of the cytotoxic lactone (+)-cardiobutanolide and two novel analogues. Tetrahedron Letters, 2019, 60, 684-687.	0.7	3
101	Synthesis and antiproliferative activity of simplified goniofufurone analogues. Journal of the Serbian Chemical Society, 2020, 85, 1539-1551.	0.4	3
102	A neglected natural source for targeting glioblastoma. Natural Product Research, 2021, 35, 1856-1860.	1.0	2
103	Asymmetric synthesis and biological evaluation of (+)-cardiobutanolide, (â^')-3-deoxycardiobutanolide and analogues as antiproliferative agents. Tetrahedron, 2021, 97, 132408.	1.0	2
104	Design, synthesis and cytotoxic activity of new 6-O-aroyl (â^')-cleistenolide derivatives. Tetrahedron, 2021, 96, 132385.	1.0	2
105	Biocompatibility of Three Root End Filling Materials. Journal of Biomaterials and Tissue Engineering, 2014, 4, 253-257.	0.0	2
106	Antioxidant and cytotoxic activity of mono- and bissalicylic acid derivatives. Acta Periodica Technologica, 2014, , 173-189.	0.5	2
107	Novel (â^')-goniofufurone mimics: Synthesis, antiproliferative activity and SAR analysis. Journal of the Serbian Chemical Society, 2019, 84, 1345-1353.	0.4	2
108	Bioactive components and antioxidant, antiproliferative, and antihyperglycemic activities of wild cornelian cherry (Cornus mas l.). Macedonian Journal of Chemistry and Chemical Engineering, 2021, 40, 221.	0.2	2

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109	Potential of Helicrysum italicum cultivated in urban environment: SCCO2 extract cytotoxicity & NF-kB activation in HeLa, MCF-7 and MRC-5Âcells. Sustainable Chemistry and Pharmacy, 2022, 26, 100622.	1.6	1
110	Apoptosis induction in HeLa cervical cancer cell line by steroidal 16,17-seco-16,17a-dinitriles. Journal of the Serbian Chemical Society, 2022, 87, 969-981.	0.4	1
111	Cytotoxicity of single-walled carbon nanotubes to human lung carcinoma cells: The influence of N-acetylcysteine. Archive of Oncology, 2013, 21, 59-61.	0.2	Ο
112	α-tricalcium phosphate/fluorapatite-based cement - promising dental root canal filling material. Processing and Application of Ceramics, 2022, 16, 22-29.	0.4	0
113	Structural, biological and computational study of oxamide derivative. Journal of the Serbian Chemical Society, 2022, 87, 545-559.	0.4	Ο