

Irena Kostova

List of Publications by Year in descending order

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90
papers

4,651
citations

117625

34
h-index

98798

67
g-index

93
all docs

93
docs citations

93
times ranked

5838
citing authors

#	ARTICLE	IF	CITATIONS
1	Ruthenium Complexes as Anticancer Agents. <i>Current Medicinal Chemistry</i> , 2006, 13, 1085-1107.	2.4	482
2	Platinum Complexes as Anticancer Agents. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2006, 1, 1-22.	1.6	415
3	Synthetic and Natural Coumarins as Cytotoxic Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2005, 5, 29-46.	7.0	384
4	Coumarins as Antioxidants. <i>Current Medicinal Chemistry</i> , 2011, 18, 3929-3951.	2.4	326
5	Antiangiogenic effects of flavonoids and chalcones. <i>Pharmacological Research</i> , 2008, 57, 259-265.	7.1	195
6	New lanthanide complexes of 4-methyl-7-hydroxycoumarin and their pharmacological activity. <i>European Journal of Medicinal Chemistry</i> , 2001, 36, 339-347.	5.5	158
7	Coumarins as Inhibitors of HIV Reverse Transcriptase. <i>Current HIV Research</i> , 2006, 4, 347-363.	0.5	136
8	Titanium and Vanadium Complexes as Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2009, 9, 827-842.	1.7	133
9	Gold Coordination Complexes as Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2006, 6, 19-32.	1.7	119
10	Synthetic and Natural Coumarins as Antioxidants. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 365-374.	2.4	117
11	Gold nanoparticles fabrication by plant extracts: synthesis, characterization, degradation of 4-nitrophenol from industrial wastewater, and insecticidal activity – A review. <i>Journal of Cleaner Production</i> , 2018, 184, 740-753.	9.3	111
12	Advances in Research of Schiff-Base Metal Complexes as Potent Antioxidants. <i>Current Medicinal Chemistry</i> , 2013, 20, 4609-4632.	2.4	109
13	Cytotoxic activity of new lanthanum (III) complexes of bis-coumarins. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 542-551.	5.5	102
14	Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129435.	2.4	86
15	New metal complexes of 4-methyl-7-hydroxycoumarin sodium salt and their pharmacological activity. <i>Il Farmaco</i> , 2001, 56, 707-713.	0.9	84
16	Theoretical and vibrational spectral investigation of sodium salt of acenocoumarol. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1033-1038.	2.5	79
17	Thermodynamic and conformational changes of protein toward interaction with nanoparticles: a spectroscopic overview. <i>RSC Advances</i> , 2016, 6, 105903-105919.	3.6	79
18	Lanthanides as Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2005, 5, 591-602.	7.0	75

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19	Synthesis, physicochemical characterisation and cytotoxic screening of new complexes of cerium, lanthanum and neodymium with Warfarin and Coumachlor sodium salts. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 63-68.	5.5	72
20	Cytotoxic activity of new neodymium (III) complexes of bis-coumarins. <i>European Journal of Medicinal Chemistry</i> , 2004, 39, 765-775.	5.5	65
21	Palladium complexes: new candidates for anti-cancer drugs. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 967-989.	2.2	60
22	Synthesis, Physicochemical Characterization, and Cytotoxic Screening of New Zirconium Complexes with Coumarin Derivatives. <i>Archiv Der Pharmazie</i> , 2001, 334, 157-162.	4.1	59
23	Theoretical and spectroscopic evidence for coordination ability of 3,3'-benzylidenedi-4-hydroxycoumarin. New neodymium (III) complex and its cytotoxic effect. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 477-487.	3.5	56
24	New Samarium(III), Gadolinium(III), and Dysprosium(III) Complexes of Coumarin-3-Carboxylic Acid as Antiproliferative Agents. <i>Metal-Based Drugs</i> , 2007, 2007, 1-8.	3.8	55
25	DFT modeling and spectroscopic study of metal-ligand bonding in La(III) complex of coumarin-3-carboxylic acid. <i>Chemical Physics</i> , 2006, 327, 209-219.	1.9	52
26	New cerium(III) complexes of coumarins - Synthesis, characterization and cytotoxicity evaluation. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 178-188.	5.5	52
27	Cytotoxic Activity of Cerium Complexes with Coumarin Derivatives. <i>Molecular Modeling of the Ligands. Archiv Der Pharmazie</i> , 2000, 333, 93-98.	4.1	47
28	New zirconium (IV) complexes of coumarins with cytotoxic activity. <i>European Journal of Medicinal Chemistry</i> , 2006, 41, 717-726.	5.5	46
29	Studying plant-derived coumarins for their pharmacological and therapeutic properties as potential anticancer drugs. <i>Expert Opinion on Drug Discovery</i> , 2007, 2, 1605-1618.	5.0	44
30	Theoretical and spectroscopic studies of pyridyl substituted bis-coumarins and their new neodymium (III) complexes. <i>Chemical Physics</i> , 2005, 314, 73-84.	1.9	42
31	Synthesis, physicochemical characterization and cytotoxic screening of new complexes of cerium, lanthanum and neodymium with Nifflcoumar sodium salt. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 853-858.	5.5	40
32	Developments in the Application of 1,2,3-Triazoles in Cancer Treatment. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2020, 15, 92-112.	1.6	40
33	Antineoplastic activity of new lanthanide (cerium, lanthanum and neodymium) complex compounds. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 18, 219-226.	3.0	39
34	Cytotoxic activity of new cerium (III) complexes of bis-coumarins. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 1246-1254.	5.5	39
35	Theoretical, spectral characterization and antineoplastic activity of new lanthanide complexes. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008, 22, 100-111.	3.0	33
36	Metal Complexes of Biologically Active Ligands as Potential Antioxidants. <i>Current Medicinal Chemistry</i> , 2013, 20, 4508-4539.	2.4	28

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37	Theoretical and spectroscopic studies of lanthanum (III) complex of 5-aminoorotic acid. <i>Chemical Physics</i> , 2006, 327, 494-505.	1.9	27
38	Synthesis, Characterization, and Cytotoxic Activity of New Lanthanum(III) Complexes of Bis-Coumarins. <i>Bioinorganic Chemistry and Applications</i> , 2006, 2006, 1-9.	4.1	25
39	Synthesis, characterization and cytotoxic/cytostatic activity of La(III) and Dy(III) complexes. <i>Journal of Trace Elements in Medicine and Biology</i> , 2010, 24, 7-13.	3.0	25
40	Involvement of Lanthanides in the Free Radicals Homeostasis. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 2508-2519.	2.1	25
41	Density functional theory calculation and vibrational spectral analysis of 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1076-1084.	2.5	24
42	Biologically active coumarins as inhibitors of HIV-1. <i>Future HIV Therapy</i> , 2007, 1, 315-329.	0.4	23
43	Raman, FT-IR, and DFT studies of 3,5-pyrazoledicarboxylic acid and its Ce(III) and Nd(III) complexes. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1-10.	2.5	22
44	Vibrational and theoretical study of coumarin-3-carboxylic acid binding mode in Ce(III) and Nd(III) complexes. <i>Vibrational Spectroscopy</i> , 2007, 44, 78-88.	2.2	21
45	New Lanthanide Complexes with Antioxidant Activity. <i>Medicinal Chemistry</i> , 2008, 4, 371-378.	1.5	21
46	FT-IR and FT-Raman spectra, ab initio and density functional computations of the vibrational spectra, molecular geometry, atomic charges and some molecular properties of the biomolecule 5-iodouracil. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 29-44.	1.5	21
47	Theoretical and spectroscopic studies of 5-aminoorotic acid and its new lanthanide(III) complexes. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 205-216.	2.5	20
48	Synthesis, characterization and cytotoxic/cytostatic activity of Sm(III) and Gd(III) complexes. <i>Journal of Coordination Chemistry</i> , 2009, 62, 3187-3197.	2.2	18
49	Tautomerism in 5-Bromouracil: Relationships with Other 5-Haloderivatives and Effect of the Microhydration. <i>Spectroscopy Letters</i> , 2011, 44, 300-306.	1.0	18
50	Antioxidant Properties of Pyrimidine and Uracil Derivatives. <i>Current Organic Chemistry</i> , 2017, 21, .	1.6	16
51	New cerium(III) and neodymium(III) complexes as cytotoxic agents. <i>Applied Organometallic Chemistry</i> , 2006, 20, 483-493.	3.5	15
52	Raman, FT-IR and DFT studies of ortho-, meta- and para-pyridinomethylene substituted di(4-hydroxy-coumarin) and their Ce(III), La(III) and Nd(III) complexes. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 742-754.	2.5	15
53	Synthesis, characterization and cytotoxicity evaluation of new cerium(III), lanthanum(III) and neodymium(III) complexes. <i>Applied Organometallic Chemistry</i> , 2007, 21, 226-233.	3.5	14
54	DFT, IR, Raman and NMR study of the coordination ability of coumarin-3-carboxylic acid to Pr(III). <i>Journal of Molecular Structure</i> , 2010, 979, 115-121.	3.6	14

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55	New samarium(III) complex of 5-aminoorotic acid with antioxidant activity. <i>Applied Organometallic Chemistry</i> , 2015, 29, 815-824.	3.5	14
56	Stability of the complexes of some lanthanides with coumarin derivatives. II. Neodymium(III)-acenocoumarol. <i>Acta Pharmaceutica</i> , 2004, 54, 119-31.	2.0	14
57	5-Amino-2-aryl-1,2,3-triazol-4-carboxylic acids: Synthesis, photophysical properties, and application prospects. <i>Dyes and Pigments</i> , 2020, 178, 108343.	3.7	13
58	Cerium(III) and Neodymium(III) Complexes as Scavengers of X/XO Derived Superoxide Radical. <i>Medicinal Chemistry</i> , 2006, 2, 463-470.	1.5	12
59	Theoretical study of the substituent effect on the intramolecular hydrogen bonds in di(4-hydroxycoumarin) derivatives. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 1304-1315.	2.0	12
60	Cytotoxicity of new Ho(III) and Pr(III) complexes. <i>Journal of Rare Earths</i> , 2010, 28, 40-46.	4.8	12
61	Synthesis, spectral and pharmacological studies on lanthanide(III) complexes of 3,5-pyrazoledicarboxylic acid. <i>Journal of Coordination Chemistry</i> , 2008, 61, 3776-3792.	2.2	11
62	Molecular first order hyperpolarizability and vibrational spectral investigation of Warfarin sodium. <i>Chemical Physics</i> , 2010, 378, 88-102.	1.9	11
63	Characteristic Raman and IR bands of 3,3'-benzylidenebis(4-hydroxycoumarin) and its La(III), Ce(III) and Nd(III) complexes. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 808-815.	2.5	10
64	Spectroscopic and Theoretical Studies of a New Cerium (III) Complex with 3,3'-bis(ortho-pyridinomethylene)di(4-hydroxycoumarin)]. <i>Spectroscopy Letters</i> , 2007, 40, 65-81.	1.0	10
65	Theoretical and spectroscopic studies of new lanthanum(III) complex of orotic acid. <i>Vibrational Spectroscopy</i> , 2007, 44, 209-219.	2.2	10
66	New Lanthanum (III) Complex – Synthesis, Characterization, and Cytotoxic Activity. <i>Archiv Der Pharmazie</i> , 2006, 339, 598-607.	4.1	9
67	Theoretical and experimental studies on binding mode of 3,5-pyrazoledicarboxylic acid in its new La(III) complex. <i>Chemical Physics</i> , 2006, 325, 411-421.	1.9	8
68	Lanthanum, Gallium and their Impact on Oxidative Stress. <i>Current Medicinal Chemistry</i> , 2019, 26, 4280-4295.	2.4	8
69	Synthesis and Spectroscopic Study of a New Lanthanum(III) Complex of 3,3'-Benzylidenedi(4-hydroxycoumarin). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2004, 34, 1635-1650.	1.8	7
70	Synthesis, Structure and Impact of 5-Aminoorotic Acid and Its Complexes with Lanthanum(III) and Gallium(III) on the Activity of Xanthine Oxidase. <i>Molecules</i> , 2021, 26, 4503.	3.8	7
71	How Good are Bacteriophages as an Alternative Therapy to Mitigate Biofilms of Nosocomial Infections. <i>Infection and Drug Resistance</i> , 2022, Volume 15, 503-532.	2.7	7
72	Lanthanide (III) complexes of bis-coumarins as strong inhibitors of bovine xanthine oxidase - molecular docking and SAR studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 2733-2739.	3.5	6

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73	Recent Advances in the Discovery and Development of Plant-Derived Natural Coumarins and their Analogues as Anti Human Immunodeficiency Virus Type 1 (HIV-1) Agents. <i>Biotechnology and Biotechnological Equipment</i> , 2005, 19, 16-22.	1.3	5
74	Cytotoxic Activity of Gd(III) and Dy(III) Complexes. <i>Archiv Der Pharmazie</i> , 2007, 340, 642-649.	4.1	5
75	Coordination properties of warfarin towards Pr(III) predicted from DFT and FT-IR studies. <i>Chemical Physics</i> , 2010, 374, 37-45.	1.9	5
76	Vibrational characterization and prooxidant activity of newly synthesized dysprosium(III) complex. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 891-902.	2.2	5
77	Lanthanide(III) complexes are more active inhibitors of the Fenton reaction than pure ligands. <i>Redox Report</i> , 2016, 21, 84-89.	4.5	5
78	Synthesis, characterization, and antioxidant activity of a new Gd(III) complex. <i>Journal of Coordination Chemistry</i> , 2015, 68, 4082-4101.	2.2	4
79	Stability of Neodymium(III) Complexes of 4-Hydroxycoumarins with Anticoagulant Activity. <i>American Journal of Pharmacology and Toxicology</i> , 2006, 1, 30-35.	0.7	4
80	Synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam. <i>Il Farmaco</i> , 1998, 53, 737-740.	0.9	3
81	Editorial [Hot topic: Metal-Containing Drugs and Novel Coordination Complexes in Therapeutic Anticancer Applications – Part II (Guest Editor: Irena Kostova)]. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2010, 10, 352-353.	1.7	3
82	In Vitro Interaction of 5-Aminoorotic Acid and Its Gallium(III) Complex with Superoxide Radical, Generated by Two Model Systems. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8862.	4.1	3
83	Impact of 5-aminoorotic acid and its complex with gallium(III) on the luminol-dependent chemiluminescence in presence of sodium hypochlorite. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
84	Experimental and Theoretical Studies on Biologically Active Lanthanide (III) Complexes. , 2008, , .		1
85	Theoretical and Experimental Vibrational Characterization of Biologically Active Nd(III) Complex. <i>Molecules</i> , 2021, 26, 2726.	3.8	1
86	Platinum-Based Anticancer Agents. , 2011, , 298-339.		1
87	Editorial [Hot topic: Metal-Containing Drugs and Novel Coordination Complexes in Therapeutic Anticancer Applications – Part I (Guest Editor: Irena Kostova)]. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2010, 10, 270-271.	1.7	0
88	SERS of the New Rare-Earth-Acenocoumarol Complexes. , 2010, , .		0
89	Vibrational Characterization of a New Complex of Gadolinium(III) with Cytotoxic Activity. , 2010, , .		0
90	Editorial to the Special Issue: – Synthesis of Organic Ligands and Their Metal Complexes in Medicinal Chemistry – <i>Molecules</i> , 2022, 27, 3644.	3.8	0