

Alexander Roller

List of Publications by Year in descending order

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83
papers

1,839
citations

257101

24
h-index

301761

39
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83
all docs

83
docs citations

83
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	Target profiling of an antimetastatic RAPTA agent by chemical proteomics: relevance to the mode of action. <i>Chemical Science</i> , 2015, 6, 2449-2456.	3.7	127
2	An albumin-based tumor-targeted oxaliplatin prodrug with distinctly improved anticancer activity in vivo. <i>Chemical Science</i> , 2017, 8, 2241-2250.	3.7	114
3	Task-specific thioglycolate ionic liquids for heavy metal extraction: Synthesis, extraction efficacies and recycling properties. <i>Journal of Hazardous Materials</i> , 2017, 324, 241-249.	6.5	82
4	An Entry to Novel Platinum Complexes: Carboxylation of Dihydroxoplatinum(IV) Complexes with Succinic Anhydride and Subsequent Derivatization. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2612-2617.	1.0	77
5	Antitumor pentamethylcyclopentadienyl rhodium complexes of maltol and allomaltol: Synthesis, solution speciation and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2014, 134, 57-65.	1.5	73
6	A Highly Active PN ³ Manganese Pincer Complex Performing N-Alkylation of Amines under Mild Conditions. <i>Organic Letters</i> , 2019, 21, 3142-3147.	2.4	57
7	Tumor-Targeting of EGFR Inhibitors by Hypoxia-Mediated Activation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12930-12935.	7.2	55
8	Introducing the 4-Phenyl-1,2,3-Triazole Moiety as a Versatile Scaffold for the Development of Cytotoxic Ruthenium(II) and Osmium(II) Arene Cyclometalates. <i>Inorganic Chemistry</i> , 2017, 56, 528-541.	1.9	52
9	Another step toward DNA selective targeting: Ni ^{II} and Cu ^{II} complexes of a Schiff base ligand able to bind gene promoter G-quadruplexes. <i>Dalton Transactions</i> , 2016, 45, 7758-7767.	1.6	49
10	A Dogma in Doubt: Hydrolysis of Equatorial Ligands of Pt ^{IV} Complexes under Physiological Conditions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7464-7469.	7.2	46
11	Towards targeting anticancer drugs: ruthenium(II)-arene complexes with biologically active naphthoquinone-derived ligand systems. <i>Dalton Transactions</i> , 2016, 45, 13091-13103.	1.6	45
12	Complex-Formation Ability of Salicylaldehyde Thiosemicarbazone towards Zn ^{II} , Cu ^{II} , Fe ^{II} , Fe ^{III} and Ga ^{III} Ions. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4036-4047.	1.0	44
13	Ruthenium(II) Complexes of Thiosemicarbazones: The First Water-Soluble Complex with pH-Dependent Antiproliferative Activity. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2870-2878.	1.0	43
14	A Robust, Eco-Friendly Access to Secondary Thioamides through the Addition of Organolithium Reagents to Isothiocyanates in Cyclopentyl Methyl Ether (CPME). <i>Chemistry - A European Journal</i> , 2015, 21, 18966-18970.	1.7	38
15	The Novel Atypical Dopamine Uptake Inhibitor (S)-CE-123 Partially Reverses the Effort-Related Effects of the Dopamine Depleting Agent Tetrabenazine and Increases Progressive Ratio Responding. <i>Frontiers in Pharmacology</i> , 2019, 10, 682.	1.6	35
16	New Insights into the Chemistry of the Antineoplastic Lanthanum Complex Tris(1,10-phenanthroline)tris(thiocyanato)lanthanum(III) (KP772) and Its Interaction with Biomolecules. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4282-4287.	1.0	33
17	Cancer Cell Resistance Against the Clinically Investigated Thiosemicarbazone COTI-2 Is Based on Formation of Intracellular Copper Complex Glutathione Adducts and ABCC1-Mediated Efflux. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13719-13732.	2.9	33
18	Thiomaltol-Based Organometallic Complexes with 1-Methylimidazole as Leaving Group: Synthesis, Stability, and Biological Behavior. <i>Chemistry - A European Journal</i> , 2016, 22, 17269-17281.	1.7	32

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19	Synthetic iron complexes as models for natural iron-humic compounds: Synthesis, characterization and algal growth experiments. <i>Science of the Total Environment</i> , 2017, 577, 94-104.	3.9	32
20	Improving the Stability of Maleimide-Thiol Conjugation for Drug Targeting. <i>Chemistry - A European Journal</i> , 2020, 26, 15867-15870.	1.7	29
21	Ruthenium(II)- η^6 -arene Complexes of Thiourea Derivatives: Synthesis, Characterization and Urease Inhibition. <i>Molecules</i> , 2014, 19, 8080-8092.	1.7	27
22	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9330-9348.	2.9	26
23	1,3-Dioxindan-2-carboxamides as Bioactive Ligand Scaffolds for the Development of Novel Organometallic Anticancer Drugs. <i>Organometallics</i> , 2015, 34, 848-857.	1.1	25
24	Impact of the equatorial coordination sphere on the rate of reduction, lipophilicity and cytotoxic activity of platinum(IV) complexes. <i>Journal of Inorganic Biochemistry</i> , 2017, 174, 119-129.	1.5	25
25	Tetracarboxylatoplatinum(IV) complexes featuring monodentate leaving groups – A rational approach toward exploiting the platinum(IV) prodrug strategy. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 259-271.	1.5	24
26	X-ray structure and cytotoxic activity of a picolinate ruthenium(II)-arene complex. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 53-61.	0.4	23
27	Comparative solution equilibrium studies on pentamethylcyclopentadienyl rhodium complexes of 2,2'-bipyridine and ethylenediamine and their interaction with human serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 93-103.	1.5	23
28	Structure-Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 391-417.	2.9	23
29	Solution equilibria and antitumor activities of pentamethylcyclopentadienyl rhodium complexes of picolinic acid and deferiprone. <i>Journal of Coordination Chemistry</i> , 2015, 68, 1583-1601.	0.8	22
30	The Stereochemical Course of the η^5 -Hydroxyphosphonate-Phosphate Rearrangement. <i>Chemistry - A European Journal</i> , 2015, 21, 10200-10206.	1.7	21
31	Benzoic hydroxamate-based iron complexes as model compounds for humic substances: synthesis, characterization and algal growth experiments. <i>RSC Advances</i> , 2016, 6, 40238-40249.	1.7	21
32	Palladium-Catalyzed Regioselective <i>syn</i> -Chloropalladation-Olefin Insertion-Oxidative Chlorination Cascade: Synthesis of Dichlorinated Tetrahydroquinolines. <i>Organic Letters</i> , 2019, 21, 3465-3469.	2.4	21
33	Vanadium(IV) complexes of Triapine and related thiosemicarbazones: Synthesis, solution equilibrium and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 62-73.	1.5	20
34	Cytotoxicity and preliminary mode of action studies of novel 2-aryl-4-thiopyrone-based organometallics. <i>Dalton Transactions</i> , 2016, 45, 724-733.	1.6	20
35	Ruthenium-arene complexes bearing naphthyl-substituted 1,3-dioxindan-2-carboxamides ligands for G-quadruplex DNA recognition. <i>Dalton Transactions</i> , 2019, 48, 12040-12049.	1.6	20
36	Synthesis, characterization, antimicrobial and cytotoxic activity of novel half-sandwich Ru(II) arene complexes with benzoylthiourea derivatives. <i>Journal of Inorganic Biochemistry</i> , 2020, 210, 111164.	1.5	20

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37	Reinstatement of synaptic plasticity in the aging brain through specific dopamine transporter inhibition. <i>Molecular Psychiatry</i> , 2021, 26, 7076-7090.	4.1	19
38	<i>N</i> - and <i>S</i> -donor leaving groups in triazole-based ruthenacycles: potent anticancer activity, selective activation, and mode of action studies. <i>Dalton Transactions</i> , 2018, 47, 4625-4638.	1.6	18
39	Structural and solution equilibrium studies on half-sandwich organorhodium complexes of (N,N) donor bidentate ligands. <i>New Journal of Chemistry</i> , 2018, 42, 11174-11184.	1.4	18
40	Synthesis of Novel Heterocycles by Amide Activation and Umpolung Cyclization. <i>Organic Letters</i> , 2020, 22, 2376-2380.	2.4	18
41	Metal-Organic Framework superstructures with long-ranged orientational order via E-field assisted liquid crystal assembly. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 1027-1034.	5.0	18
42	Rhodium(Cp*) Compounds with Flavone-derived Ligand Systems: Synthesis and Characterization. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1648-1654.	0.6	17
43	Complexes of pyridoxal thiosemicarbazones formed with vanadium(IV/V) and copper(II): Solution equilibrium and structure. <i>Inorganica Chimica Acta</i> , 2018, 472, 243-253.	1.2	17
44	On the Tautomerism of N-Substituted Pyrazolones: 1,2-Dihydro-3H-pyrazol-3-ones versus 1H-Pyrazol-3-ols. <i>Molecules</i> , 2018, 23, 129.	1.7	17
45	New ruthenium(II)-arene complexes bearing hydrazides and the corresponding (thio)semicarbazones of 3- and 4-acetylpyridine: Synthesis, characterization, crystal structure determination and antiproliferative activity. <i>Polyhedron</i> , 2013, 61, 112-118.	1.0	15
46	Organometallic complexes of (thio)allomaltol-based Mannich-products: Synthesis, stability and preliminary biological investigations. <i>Journal of Organometallic Chemistry</i> , 2015, 782, 69-76.	0.8	15
47	Antiproliferative Copper(II) and Platinum(II) Complexes with Bidentate N,N-Donor Ligands. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3115-3124.	1.0	13
48	Tuning the interactions of decavanadate with thaumatin, lysozyme, proteinase K and human serum proteins by its coordination to a pentaquacobalt(II) complex cation. <i>New Journal of Chemistry</i> , 2019, 43, 17863-17871.	1.4	13
49	Cation-Directed Synthetic Strategy Using 4f Tungstoantimonates as Nonlacunary Precursors for the Generation of 3d-4f Clusters. <i>Inorganic Chemistry</i> , 2020, 59, 8461-8467.	1.9	13
50	Visible-Light, Metal-Free α -Amino C(sp ³)-H Activation through 1,5-Hydrogen Migration: A Concise Method for the Preparation of Bis(indolyl)alkanes. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7643-7647.	1.2	12
51	Comparative equilibrium and structural studies of new pentamethylcyclopentadienyl rhodium complexes bearing (O,N) donor bidentate ligands. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 287-295.	0.8	10
52	Synthesis, Modification, and Biological Evaluation of a Library of Novel Water-Soluble Thiopyridone-Based Organometallic Complexes and Their Unexpected (Biological) Behavior. <i>Chemistry - A European Journal</i> , 2020, 26, 5419-5433.	1.7	10
53	Investigations on the Anticancer Potential of Benzothiazole-Based Metallacycles. <i>Frontiers in Chemistry</i> , 2020, 8, 209.	1.8	10
54	Endophytic <i>Akanthomyces</i> sp. LN303 from Edelweiss Produces Emestrin and Two New 2-Hydroxy-4 Pyridone Alkaloids. <i>ACS Omega</i> , 2021, 6, 2184-2191.	1.6	10

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55	Triapine Analogues and Their Copper(II) Complexes: Synthesis, Characterization, Solution Speciation, Redox Activity, Cytotoxicity, and mR2 RNR Inhibition. <i>Inorganic Chemistry</i> , 2021, 60, 11297-11319.	1.9	10
56	Redox-Active Organoruthenium(II) and Organoosmium(II) Copper(II) Complexes, with an Amidrazone-Morpholine Hybrid and $[Cu^{I}Cl_2]^{+}$ as Counteranion and Their Antiproliferative Activity. <i>Organometallics</i> , 2019, 38, 2307-2318.	1.1	9
57	Room temperature synthesis of a luminescent crystalline Cu-BTC coordination polymer and metal-organic framework. <i>Materials Advances</i> , 2022, 3, 224-231.	2.6	9
58	Synthesis of the first Zn ₆ -hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. <i>Dalton Transactions</i> , 2018, 47, 15651-15655.	1.6	8
59	The Impact of Leaving Group Variation on the Anticancer Activity of Molybdenocenes. <i>Organometallics</i> , 2018, 37, 3909-3916.	1.1	8
60	The First Anticancer Tris(pyrazolyl)borate Molybdenum(IV) Complexes: Tested in Vitro and in Vivo? A Comparison of O, O-S, O, and N, N-Chelate Effects. <i>Chemistry - A European Journal</i> , 2020, 26, 2211-2221.	1.7	8
61	Enhanced arecoline derivatives as muscarinic acetylcholine receptor M1 ligands for potential application as PET radiotracers. <i>European Journal of Medicinal Chemistry</i> , 2020, 204, 112623.	2.6	8
62	Synthesis of Indolophanes by Photochemical Macrocyclization. <i>Chemistry - A European Journal</i> , 2016, 22, 8444-8447.	1.7	7
63	Chemical Synthesis of (<i>R</i>)- and (<i>S</i>)-[¹⁶ O, ¹⁷ O, ¹⁸ O]Phosphoenol Pyruvate. <i>Journal of Organic Chemistry</i> , 2017, 82, 10310-10318.	1.7	7
64	Fine-Tuning the Activation Mode of an 1,3-Indandione-Based Ruthenium(II)-Cymene Half-Sandwich Complex by Variation of Its Leaving Group. <i>Molecules</i> , 2019, 24, 2373.	1.7	7
65	Spontaneous Resolution of a Triple-Stranded Dinickel(II) Helicate Generated via Intermolecular Transamination Reaction of <i>S</i> -Methylisothiocarbohydrazide in the Presence of Ni ²⁺ . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4140-4145.	1.0	5
66	Synthesis of tetrasubstituted pyrazoles containing pyridinyl substituents. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 895-902.	1.3	5
67	Defect $\{(W^{VI}O_7)W^{VI}O_4\}$ and Full $\{(W^{VI}O_7)W^{VI}O_5\}$ Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. <i>Inorganic Chemistry</i> , 2021, 60, 8917-8923.	1.9	5
68	Conversion of hydrazides into N,N'-diacylhydrazines in the presence of a ruthenium(ii)-arene complex. <i>New Journal of Chemistry</i> , 2017, 41, 6857-6865.	1.4	4
69	Crystal engineering with copper and melamine. <i>RSC Advances</i> , 2021, 11, 23943-23947.	1.7	4
70	Formal synthesis of <i>P</i> -chiral [¹⁶ O, ¹⁷ O, ¹⁸ O]phosphoenol pyruvates by means of the \pm -hydroxyphosphonate-phosphate rearrangement. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2018, 193, 515-519.	0.8	3
71	Improved Access to Chiral Tetranaphthoazepinium-Based Organocatalysts Using Aqueous Ammonia as Nitrogen Source. <i>Molecules</i> , 2019, 24, 3844.	1.7	3
72	Synthesis and Crystal Structure of 4-(Bis(4-hydroxy-2-oxo-2H-chromen-3-yl)methyl)benzoic Acid. <i>X-ray Structure Analysis Online</i> , 2017, 33, 53-55.	0.1	2

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73	Economy of Catalyst Synthesis—Convenient Access to Libraries of Di- and Tetranaphtho Azepinium Compounds. <i>Molecules</i> , 2018, 23, 750.	1.7	2
74	Indenyl complexes of ruthenium containing thiolate ligands. Structure of IndRu(dppe)SPh. <i>Transition Metal Chemistry</i> , 2007, 32, 523-527.	0.7	1
75	Regio- and Stereoselective Approach to 1,4-Ditertiary Carbinols from Dimethyl Tartrate. <i>Synthesis</i> , 2012, 44, 3238-3250.	1.2	1
76	Racemic and Meso Crystal Structures of an Axial-Chiral Spirobi-(dinaphthoazepin)ium Salt: Emergence of an S ₄ -Symmetric Molecule. <i>Symmetry</i> , 2021, 13, 1365.	1.1	1
77	Unexpected scaffold rearrangement product of pirenzepine found in commercial samples. <i>Scientific Reports</i> , 2021, 11, 23397.	1.6	1
78	Maleimide—Styrene—Butadiene terpolymers: acrylonitrile—butadiene—styrene inspired photopolymers for additive manufacturing. <i>Polymer International</i> , 0, , .	1.6	1
79	Synthesis, Structure, and Reactivity of Binaphthyl Supported Dihydro[1,6]diazecines. <i>Molecules</i> , 2019, 24, 3098.	1.7	0
80	Synthesis and characterization of enantiopure planar—chiral phosphorus-linked diferrocenes. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 152-160.	0.2	0
81	A Many-Faced Alkaloid: Polymorphism of (—)-Monophyllidin. <i>Molecules</i> , 2020, 25, 449.	1.7	0
82	Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. <i>Amino Acids</i> , 2021, , 1.	1.2	0
83	Reactivity of Diamines in Acyclic Diamino Carbene Gold Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 7448-7458.	1.9	0