

Alexander Roller

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77 papers	1,327 citations	20 h-index	32 g-index
83 ext. papers	1,568 ext. citations	4.7 avg, IF	4.52 L-index

#	Paper	IF	Citations
77	Target profiling of an antimetastatic RAPTA agent by chemical proteomics: relevance to the mode of action. <i>Chemical Science</i> , 2015 , 6, 2449-2456	9.4	105
76	An albumin-based tumor-targeted oxaliplatin prodrug with distinctly improved anticancer activity. <i>Chemical Science</i> , 2017 , 8, 2241-2250	9.4	82
75	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	2.3	74
74	Antitumor pentamethylcyclopentadienyl rhodium complexes of maltol and allomaltol: synthesis, solution speciation and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2014 , 134, 57-65	4.2	64
73	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	12.8	63
72	Tumor-targeting of EGFR inhibitors by hypoxia-mediated activation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12930-12935	16.4	43
71	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	5.1	42
70	A Highly Active PN Manganese Pincer Complex Performing N-Alkylation of Amines under Mild Conditions. <i>Organic Letters</i> , 2019 , 21, 3142-3147	6.2	39
69	Towards targeting anticancer drugs: ruthenium(ii)-arene complexes with biologically active naphthoquinone-derived ligand systems. <i>Dalton Transactions</i> , 2016 , 45, 13091-103	4.3	38
68	Complex-Formation Ability of Salicylaldehyde Thiosemicarbazone towards ZnII, CuII, FeII, FeIII and GaIII Ions. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4036-4047	2.3	37
67	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	2.3	37
66	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, 7758-67	4.3	35
65	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, 18966-70	4.8	34
64	New Insights into the Chemistry of the Antineoplastic Lanthanum Complex Tris(1,10-phenanthroline)tris(thiocyanato-N)lanthanum(III) (KP772) and Its Interaction with Biomolecules. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 4282-4287	2.3	30
63	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	4.8	25
62	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	4.2	22
61	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	10.2	22

60	1,3-Dioxoindan-2-carboxamides as Bioactive Ligand Scaffolds for the Development of Novel Organometallic Anticancer Drugs. <i>Organometallics</i> , 2015 , 34, 848-857	3.8	22
59	Ruthenium(II)(η -arene) complexes of thiourea derivatives: synthesis, characterization and urease inhibition. <i>Molecules</i> , 2014 , 19, 8080-92	4.8	21
58	A Dogma in Doubt: Hydrolysis of Equatorial Ligands of Pt Complexes under Physiological Conditions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7464-7469	16.4	20
57	Solution equilibria and antitumor activities of pentamethylcyclopentadienyl rhodium complexes of picolinic acid and deferiprone. <i>Journal of Coordination Chemistry</i> , 2015 , 68, 1583-1601	1.6	20
56	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	0.9	20
55	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	4.2	19
54	Vanadium(IV/V) complexes of Triapine and related thiosemicarbazones: Synthesis, solution equilibrium and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2015 , 152, 62-73	4.2	19
53	The Novel Atypical Dopamine Uptake Inhibitor -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	5.6	18
52	The Stereochemical Course of the β -Hydroxyphosphonate-Phosphate Rearrangement. <i>Chemistry - A European Journal</i> , 2015 , 21, 10200-6	4.8	18
51	Comparative solution equilibrium studies on pentamethylcyclopentadienyl rhodium complexes of 2,2Sbipyridine and ethylenediamine and their interaction with human serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2015 , 152, 93-103	4.2	17
50	N- and S-donor leaving groups in triazole-based ruthena(ii)cycles: potent anticancer activity, selective activation, and mode of action studies. <i>Dalton Transactions</i> , 2018 , 47, 4625-4638	4.3	16
49	Cytotoxicity and preliminary mode of action studies of novel 2-aryl-4-thiopyrone-based organometallics. <i>Dalton Transactions</i> , 2016 , 45, 724-33	4.3	15
48	Rhodium(Cp*) Compounds with Flavone-derived Ligand Systems: Synthesis and Characterization. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013 , 639, 1648-1654	1.3	15
47	On the Tautomerism of N-Substituted Pyrazolones: 1,2-Dihydro-3H-pyrazol-3-ones versus 1H-Pyrazol-3-ols. <i>Molecules</i> , 2018 , 23,	4.8	14
46	Ruthenium-arene complexes bearing naphthyl-substituted 1,3-dioxoindan-2-carboxamides ligands for G-quadruplex DNA recognition. <i>Dalton Transactions</i> , 2019 , 48, 12040-12049	4.3	14
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	2.7	14
44	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	3.7	14
43	Palladium-Catalyzed Regioselective Syn-Chloropalladation-Olefin Insertion-Oxidative Chlorination Cascade: Synthesis of Dichlorinated Tetrahydroquinolines. <i>Organic Letters</i> , 2019 , 21, 3465-3469	6.2	13

42	Organometallic complexes of (thio)allomaltol-based Mannich-products: Synthesis, stability and preliminary biological investigations. <i>Journal of Organometallic Chemistry</i> , 2015 , 782, 69-76	2.3	13
41	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	8.3	13
40	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	2.7	13
39	Improving the Stability of Maleimide-Thiol Conjugation for Drug Targeting. <i>Chemistry - A European Journal</i> , 2020 , 26, 15867-15870	4.8	12
38	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	3.6	11
37	Antiproliferative Copper(II) and Platinum(II) Complexes with Bidentate N,N-Donor Ligands. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 3115-3124	2.3	11
36	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 9330-9348	8.3	10
35	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	4.2	10
34	Visible-Light, Metal-Free π -Amino C(sp ³) π 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	3.2	10
33	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	3.6	10
32	Comparative equilibrium and structural studies of new pentamethylcyclopentadienyl rhodium complexes bearing (O,N) donor bidentate ligands. <i>Journal of Organometallic Chemistry</i> , 2017 , 846, 287-293	2.3	9
31	Structure-Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 391-417	8.3	9
30	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	4.8	8
29	Synthesis of Novel Heterocycles by Amide Activation and Umpolung Cyclization. <i>Organic Letters</i> , 2020 , 22, 2376-2380	6.2	7
28	Synthesis of the first Zn-hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. <i>Dalton Transactions</i> , 2018 , 47, 15651-15655	4.3	7
27	Redox-Active Organoruthenium(II) and Organoosmium(II) Copper(II) Complexes, with an Amidrazonemorpholine Hybrid and [CuCl ₂] ⁻ Counteranion and Their Antiproliferative Activity. <i>Organometallics</i> , 2019 , 38, 2307-2318	3.8	6
26	Chemical Synthesis of (R)- and (S)-[O,O,O]Phosphoenol Pyruvate. <i>Journal of Organic Chemistry</i> , 2017 , 82, 10310-10318	4.2	6
25	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	5.1	6

24	Endophytic sp. LN303 from Edelweiss Produces Emestrin and Two New 2-Hydroxy-4 Pyridone Alkaloids. <i>ACS Omega</i> , 2021 , 6, 2184-2191	3.9	6
23	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,	4.8	5
22	Spontaneous Resolution of a Triple-Stranded Dinickel(II) Helicate Generated via Intermolecular Transamination Reaction of S-Methylisothiocarbohydrazide in the Presence of Ni ²⁺ . <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4140-4145	2.3	5
21	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	6.8	5
20	Synthesis of Indolophanes by Photochemical Macrocyclization. <i>Chemistry - A European Journal</i> , 2016 , 22, 8444-7	4.8	5
19	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	3.6	4
18	Synthesis of tetrasubstituted pyrazoles containing pyridinyl substituents. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 895-902	2.5	4
17	Investigations on the Anticancer Potential of Benzothiazole-Based Metallacycles. <i>Frontiers in Chemistry</i> , 2020 , 8, 209	5	3
16	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	4.8	3
15	Formal synthesis of P-chiral [16O,17O,18O]phosphoenol pyruvates by means of the Hydroxyphosphonate-phosphate rearrangement. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2018 , 193, 515-519	1	2
14	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	5.1	2
13	The Impact of Leaving Group Variation on the Anticancer Activity of Molybdenocenes. <i>Organometallics</i> , 2018 , 37, 3909-3916	3.8	2
12	Economy of Catalyst Synthesis-Convenient Access to Libraries of Di- and Tetranaphtho Azepinium Compounds. <i>Molecules</i> , 2018 , 23,	4.8	1
11	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	0.2	1
10	Regio- and Stereoselective Approach to 1,4-Ditertiary Carbinols from Dimethyl Tartrate. <i>Synthesis</i> , 2012 , 44, 3238-3250	2.9	1
9	Indenyl complexes of ruthenium containing thiolate ligands. Structure of IndRu(dppe)SPh. <i>Transition Metal Chemistry</i> , 2007 , 32, 523-527	2.1	1
8	Defect {(WO)W} and Full {(WO)W} Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. <i>Inorganic Chemistry</i> , 2021 , 60, 8917-8923	5.1	1
7	Room temperature synthesis of a luminescent crystalline Cu-BTC coordination polymer and metal-organic framework... <i>Materials Advances</i> , 2022 , 3, 224-231	3.3	0

- 6 Crystal engineering with copper and melamine. *RSC Advances*, **2021**, 11, 23943-23947 3.7 0
- 5 Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. *Amino Acids*, **2021**, 1 3.5
- 4 Unexpected scaffold rearrangement product of pirenzepine found in commercial samples. *Scientific Reports*, **2021**, 11, 23397 4.9
- 3 Synthesis and characterization of enantiopure planar-chiral phosphorus-linked diferrocenes. *Acta Crystallographica Section C, Structural Chemistry*, **2021**, 77, 152-160 0.8
- 2 Racemic and Meso Crystal Structures of an Axial-Chiral Spirobi-(dinaphthoazepin)ium Salt: Emergence of an S₄-Symmetric Molecule. *Symmetry*, **2021**, 13, 1365 2.7
- 1 Reactivity of Diamines in Acyclic Diamino Carbene Gold Complexes.. *Inorganic Chemistry*, **2022**, 61, 7448-7458 3.458