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 g-index
83 all docs	83 docs citations	83 times ranked	2621 citing authors

#	Article	IF	Citations
1	Room temperature synthesis of a luminescent crystalline Cuâ€“BTC coordination polymer and metalâ€“organic framework. Materials Advances, 2022, 3, 224-231.	2.6	9
2	Metal-Organic Framework superstructures with long-ranged orientational order via E-field assisted liquid crystal assembly. Journal of Colloid and Interface Science, 2022, 610, 1027-1034.	5.0	18
3	Reactivity of Diamines in Acyclic Diamino Carbene Gold Complexes. Inorganic Chemistry, 2022, 61, 7448-7458.	1.9	0
4	Endophytic Akanthomyces sp. LN303 from Edelweiss Produces Emestrin and Two New 2-Hydroxy-4 Pyridone Alkaloids. ACS Omega, 2021, 6, 2184-2191.	1.6	10
5	Crystal engineering with copper and melamine. RSC Advances, 2021, 11, 23943-23947.	1.7	4
6	Synthesis and characterization of enantiopure planarâ€“chiral phosphorus-linked diferrocenes. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 152-160.	0.2	0
7	Defect {(W^{VI}O₇)W^{VI}₄} and Full {(W^{VI}O₇)W^{VI}₅} Pentagonal Units as Synthons for the Generation of Nanosized Main Group V Heteropolyoxotungstates. Inorganic Chemistry, 2021, 60, 8917-8923.	1.9	5
8	Triapine Analogues and Their Copper(II) Complexes: Synthesis, Characterization, Solution Speciation, Redox Activity, Cytotoxicity, and mR2 RNR Inhibition. Inorganic Chemistry, 2021, 60, 11297-11319.	1.9	10
9	Reinstatement of synaptic plasticity in the aging brain through specific dopamine transporter inhibition. Molecular Psychiatry, 2021, 26, 7076-7090.	4.1	19
10	Racemic and Meso Crystal Structures of an Axial-Chiral Spirobi-(dinaphthoazepin)ium Salt: Emergence of an S4-Symmetric Molecule. Symmetry, 2021, 13, 1365.	1.1	1
11	Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. Amino Acids, 2021, , 1.	1.2	0
12	Unexpected scaffold rearrangement product of pirenzepine found in commercial samples. Scientific Reports, 2021, 11, 23397.	1.6	1
13	The First Anticancer Tris(pyrazolyl)borate Molybdenum(IV) Complexes: Tested in Vitro and in Vivoâ€”A Comparison of O,O â€, S,O â€, and N , Nâ€•Chelate Effects. Chemistry - A European Journal, 2020, 26, 2211-2221.	1.7	8
14	Structureâ€“Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. Journal of Medicinal Chemistry, 2020, 63, 391-417.	2.9	23
15	Enhanced arecoline derivatives as muscarinic acetylcholine receptor M1 ligands for potential application as PET radiotracers. European Journal of Medicinal Chemistry, 2020, 204, 112623.	2.6	8
16	Cancer Cell Resistance Against the Clinically Investigated Thiosemicarbazone COTI-2 Is Based on Formation of Intracellular Copper Complex Glutathione Adducts and ABCC1-Mediated Efflux. Journal of Medicinal Chemistry, 2020, 63, 13719-13732.	2.9	33
17	Improving the Stability of Maleimideâ€“Thiol Conjugation for Drug Targeting. Chemistry - A European Journal, 2020, 26, 15867-15870.	1.7	29
18	Synthesis of Novel Heterocycles by Amide Activation and Umpolung Cyclization. Organic Letters, 2020, 22, 2376-2380.	2.4	18

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19	Synthesis, characterization, antimicrobial and cytotoxic activity of novel half-sandwich Ru(II) arene complexes with benzoylthiourea derivatives. Journal of Inorganic Biochemistry, 2020, 210, 111164.	1.5	20
20	Synthesis, Modification, and Biological Evaluation of a Library of Novel Waterâ€Soluble Thiopyridoneâ€Based Organometallic Complexes and Their Unexpected (Biological) Behavior. Chemistry - A European Journal, 2020, 26, 5419-5433.	1.7	10
21	Investigations on the Anticancer Potential of Benzothiazole-Based Metallacycles. Frontiers in Chemistry, 2020, 8, 209.	1.8	10
22	Cation-Directed Synthetic Strategy Using 4f Tungstoantimonates as Nonlacunary Precursors for the Generation of 3dâ€“4f Clusters. Inorganic Chemistry, 2020, 59, 8461-8467.	1.9	13
23	A Many-Faced Alkaloid: Polymorphism of (â€“)-Monophyllidin. Molecules, 2020, 25, 449.	1.7	0
24	Fine-Tuning the Activation Mode of an 1,3-Indandione-Based Ruthenium(II)-Cymene Half-Sandwich Complex by Variation of Its Leaving Group. Molecules, 2019, 24, 2373.	1.7	7
25	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. Frontiers in Pharmacology, 2019, 10, 682.	1.6	35
26	Rutheniumâ€“arene complexes bearing naphthyl-substituted 1,3-dioxoindan-2-carboxamides ligands for G-quadruplex DNA recognition. Dalton Transactions, 2019, 48, 12040-12049.	1.6	20
27	Synthesis, Structure, and Reactivity of Binaphthyl Supported Dihydro[1,6]diazecines. Molecules, 2019, 24, 3098.	1.7	0
28	Palladium-Catalyzed Regioselective Syn-Chloropalladationâ€“Olefin Insertionâ€“Oxidative Chlorination Cascade: Synthesis of Dichlorinated Tetrahydroquinolines. Organic Letters, 2019, 21, 3465-3469.	2.4	21
29	Redox-Active Organoruthenium(II)â€“ and Organoosmium(II)â€“Copper(II) Complexes, with an Amidrazoneâ€“Morpholine Hybrid and [Cu^ICl₂]^{â^'} as Counteranion and Their Antiproliferative Activity. Organometallics, 2019, 38, 2307-2318.	1.1	9
30	A Dogma in Doubt: Hydrolysis of Equatorial Ligands of Pt^{IV} Complexes under Physiological Conditions. Angewandte Chemie - International Edition, 2019, 58, 7464-7469.	7.2	46
31	A Highly Active PN³ Manganese Pincer Complex Performing N-Alkylation of Amines under Mild Conditions. Organic Letters, 2019, 21, 3142-3147.	2.4	57
32	Improved Access to Chiral Tetranaphthoazepinium-Based Organocatalysts Using Aqueous Ammonia as Nitrogen Source. Molecules, 2019, 24, 3844.	1.7	3
33	Tuning the interactions of decavanadate with thaumatin, lysozyme, proteinase K and human serum proteins by its coordination to a pentaaquacobalt(<scp>ii</scp>) complex cation. New Journal of Chemistry, 2019, 43, 17863-17871.	1.4	13
34	N- and S-donor leaving groups in triazole-based ruthena(<scp>ii</scp>)cycles: potent anticancer activity, selective activation, and mode of action studies. Dalton Transactions, 2018, 47, 4625-4638.	1.6	18
35	Complexes of pyridoxal thiosemicarbazones formed with vanadium(IV/V) and copper(II): Solution equilibrium and structure. Inorganica Chimica Acta, 2018, 472, 243-253.	1.2	17
36	Synthesis of the first Zn6-hexagon sandwich-tungstoantimonate via rearrangement of a non-lacunary Krebs-type polyoxotungstate. Dalton Transactions, 2018, 47, 15651-15655.	1.6	8

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37	The Impact of Leaving Group Variation on the Anticancer Activity of Molybdenocenes. Organometallics, 2018, 37, 3909-3916.	1.1	8
38	On the Tautomerism of N-Substituted Pyrazolones: 1,2-Dihydro-3H-pyrazol-3-ones versus 1H-Pyrazol-3-ols. Molecules, 2018, 23, 129.	1.7	17
39	Economy of Catalyst Synthesisâ€"Convenient Access to Libraries of Di- and Tetranaphtho Azepinium Compounds. Molecules, 2018, 23, 750.	1.7	2
40	Formal synthesis ofP-chiral [¹⁶O,¹⁷O,¹⁸O]phosphoenol pyruvates by means of the Î±-hydroxyphosphonate-phosphate rearrangement. Phosphorus, Sulfur and Silicon and the Related Elements, 2018, 193, 515-519.	0.8	3
41	Structural and solution equilibrium studies on half-sandwich organorhodium complexes of (N,N) donor bidentate ligands. New Journal of Chemistry, 2018, 42, 11174-11184.	1.4	18
42	Impact of the equatorial coordination sphere on the rate of reduction, lipophilicity and cytotoxic activity of platinum(IV) complexes. Journal of Inorganic Biochemistry, 2017, 174, 119-129.	1.5	25
43	Conversion of hydrazides into N,Nâ€²-diacylhydrazines in the presence of a ruthenium(ii)â€“arene complex. New Journal of Chemistry, 2017, 41, 6857-6865.	1.4	4
44	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. Inorganic Chemistry, 2017, 56, 528-541.	1.9	52
45	An albumin-based tumor-targeted oxaliplatin prodrug with distinctly improved anticancer activity in vivo. Chemical Science, 2017, 8, 2241-2250.	3.7	114
46	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 9330-9348.	2.9	26
47	Chemical Synthesis of (R_P)- and (S_P)-[¹⁶O,¹⁷O,¹⁸O]Phosphoenol Pyruvate. Journal of Organic Chemistry, 2017, 82, 10310-10318.	1.7	7
48	Antiproliferative Copper(II) and Platinum(II) Complexes with Bidentate N,Nâ€Donor Ligands. European Journal of Inorganic Chemistry, 2017, 2017, 3115-3124.	1.0	13
49	Comparative equilibrium and structural studies of new pentamethylcyclopentadienyl rhodium complexes bearing (O,N) donor bidentate ligands. Journal of Organometallic Chemistry, 2017, 846, 287-295.	0.8	10
50	Synthetic iron complexes as models for natural iron-humic compounds: Synthesis, characterization and algal growth experiments. Science of the Total Environment, 2017, 577, 94-104.	3.9	32
51	Task-specific thioglycolate ionic liquids for heavy metal extraction: Synthesis, extraction efficacies and recycling properties. Journal of Hazardous Materials, 2017, 324, 241-249.	6.5	82
52	Synthesis and Crystal Structure of 4-(Bis(4-hydroxy-2-oxo-2<i>H</i>-chromen-3-yl)methyl)benzoic Acid. X-ray Structure Analysis Online, 2017, 33, 53-55.	0.1	2
53	Synthesis of tetrasubstituted pyrazoles containing pyridinyl substituents. Beilstein Journal of Organic Chemistry, 2017, 13, 895-902.	1.3	5
54	Synthesis of Indolophanes by Photochemical Macrocyclization. Chemistry - A European Journal, 2016, 22, 8444-8447.	1.7	7

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55	Another step toward DNA selective targeting: Ni^{II} and Cu^{II} complexes of a Schiff base ligand able to bind gene promoter G-quadruplexes. Dalton Transactions, 2016, 45, 7758-7767.	1.6	49
56	Towards targeting anticancer drugs: ruthenium(<scp>ii</scp>)â€“arene complexes with biologically active naphthoquinone-derived ligand systems. Dalton Transactions, 2016, 45, 13091-13103.	1.6	45
57	Benzoic hydroxamate-based iron complexes as model compounds for humic substances: synthesis, characterization and algal growth experiments. RSC Advances, 2016, 6, 40238-40249.	1.7	21
58	Thiomaltolâ€Based Organometallic Complexes with 1â€Methylimidazole as Leaving Group: Synthesis, Stability, and Biological Behavior. Chemistry - A European Journal, 2016, 22, 17269-17281.	1.7	32
59	Cytotoxicity and preliminary mode of action studies of novel 2-aryl-4-thiopyrone-based organometallics. Dalton Transactions, 2016, 45, 724-733.	1.6	20
60	The Stereochemical Course of the Î±â€Hydroxyphosphonateâ€“Phosphate Rearrangement. Chemistry - A European Journal, 2015, 21, 10200-10206.	1.7	21
61	Visibleâ€Light, Metalâ€Free Î±â€Amino C(sp³)â€“H Activation through 1,5â€Hydrogen Migration: A Concise Method for the Preparation of Bis(indolyl)alkanes. European Journal of Organic Chemistry, 2015, 2015, 7643-7647.	1.2	12
62	A Robust, Ecoâ€Friendly Access to Secondary Thioamides through the Addition of Organolithium Reagents to Isothiocyanates in Cyclopentyl Methyl Ether (CPME). Chemistry - A European Journal, 2015, 21, 18966-18970.	1.7	38
63	1,3-Dioxoindan-2-carboxamides as Bioactive Ligand Scaffolds for the Development of Novel Organometallic Anticancer Drugs. Organometallics, 2015, 34, 848-857.	1.1	25
64	Solution equilibria and antitumor activities of pentamethylcyclopentadienyl rhodium complexes of picolinic acid and deferiprone. Journal of Coordination Chemistry, 2015, 68, 1583-1601.	0.8	22
65	Target profiling of an antimetastatic RAPTA agent by chemical proteomics: relevance to the mode of action. Chemical Science, 2015, 6, 2449-2456.	3.7	127
66	Tetracarboxylatoplatinum(IV) complexes featuring monodentate leaving groups â€” A rational approach toward exploiting the platinum(IV) prodrug strategy. Journal of Inorganic Biochemistry, 2015, 153, 259-271.	1.5	24
67	Vanadium(IV/V) complexes of Triapine and related thiosemicarbazones: Synthesis, solution equilibrium and bioactivity. Journal of Inorganic Biochemistry, 2015, 152, 62-73.	1.5	20
68	Comparative solution equilibrium studies on pentamethylcyclopentadienyl rhodium complexes of 2,2Ê¹-bipyridine and ethylenediamine and their interaction with human serum albumin. Journal of Inorganic Biochemistry, 2015, 152, 93-103.	1.5	23
69	Organometallic complexes of (thio)allomaltol-based Mannich-products: Synthesis, stability and preliminary biological investigations. Journal of Organometallic Chemistry, 2015, 782, 69-76.	0.8	15
70	Tumorâ€Targeting of EGFR Inhibitors by Hypoxiaâ€Mediated Activation. Angewandte Chemie - International Edition, 2014, 53, 12930-12935.	7.2	55
71	Antitumor pentamethylcyclopentadienyl rhodium complexes of maltol and allomaltol: Synthesis, solution speciation and bioactivity. Journal of Inorganic Biochemistry, 2014, 134, 57-65.	1.5	73
72	RutheniumII(Î·6-arene) Complexes of Thiourea Derivatives: Synthesis, Characterization and Urease Inhibition. Molecules, 2014, 19, 8080-8092.	1.7	27

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73	Rhodium(Cp*) Compounds with Flavoneâ€derived Ligand Systems: Synthesis and Characterization. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1648-1654.	0.6	17
74	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. Polyhedron, 2013, 61, 112-118.	1.0	15
75	Regio- and Stereoselective Approach to 1,4-Ditertiary Carbinols from Dimethyl Tartrate. Synthesis, 2012, 44, 3238-3250.	1.2	1
76	Complexâ€Formation Ability of Salicylaldehyde Thiosemicarbazone towards Zn^{II}, Cu^{II}, Fe^{II}, Fe^{III} and Ga^{III} Ions. European Journal of Inorganic Chemistry, 2012, 2012, 4036-4047.	1.0	44
77	X-ray structure and cytotoxic activity of a picolinate ruthenium(II)-arene complex. Journal of the Serbian Chemical Society, 2011, 76, 53-61.	0.4	23
78	New Insights into the Chemistry of the Antineoplastic Lanthanum Complex Tris(1,10â€phenanthroline)tris(thiocyanatoâ€Î¼N)lanthanum(III) (KP772) and Its Interaction with Biomolecules. European Journal of Inorganic Chemistry, 2009, 2009, 4282-4287.	1.0	33
79	Spontaneous Resolution of a Tripleâ€Stranded Dinickel(II) Helicate Generated via Intermolecular Transamination Reaction ofSâ€Methylisothiocarbohydrazide in the Presence of Ni²⁺. European Journal of Inorganic Chemistry, 2008, 2008, 4140-4145.	1.0	5
80	Ruthenium(II) Complexes of Thiosemicarbazones: The First Water-Soluble Complex with pH-Dependent Antiproliferative Activity. European Journal of Inorganic Chemistry, 2007, 2007, 2870-2878.	1.0	43
81	Indenyl complexes of ruthenium containing thiolate ligands. Structure of IndRu(dppe)SPh. Transition Metal Chemistry, 2007, 32, 523-527.	0.7	1
82	An Entry to Novel Platinum Complexes: Carboxylation of Dihydroxoplatinum(IV) Complexes with Succinic Anhydride and Subsequent Derivatization. European Journal of Inorganic Chemistry, 2006, 2006, 2612-2617.	1.0	77
83	Maleimideâ€styreneâ€butadiene terpolymers: acrylonitrileâ€butadieneâ€styrene inspired photopolymers for additive manufacturing. Polymer International, 0, , .	1.6	1