Aurelien Crochet

List of Publications by Year
in descending order

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97	1,643	279798	330143
papers	citations	23 h-index	37 g-index

107	107	107	2226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mo(VI) Potential Metallodrugs: Explaining the Transport and Cytotoxicity by Chemical Transformations. Inorganic Chemistry, 2022, 61, 4513-4532.	4.0	12
2	New antimicrobial cyclolignan and others constituents from the leaves of Scyphocephalium mannii (Benth. & Hook.f.) Warb. Natural Product Research, 2022, , 1-8.	1.8	0
3	Complexation Behavior of Pineneâ€“Bipyridine Ligands towards Lanthanides: The Influence of the Carboxylic Arm. Chemistry, 2022, 4, 18-30.	2.2	1
4	Fast Ring-Opening Metathesis Polymerization of Tricyclic Oxanorbornene Derivatives. Macromolecules, 2022, 55, 3681-3687.	4.8	2
5	Efficient synthesis of isoindolones by intramolecular cyclisation of pyridinylbenzoic acids. Organic and Biomolecular Chemistry, 2021, 19, 8025-8029.	2.8	1
6	A versatile living polymerization method for aromatic amides. Nature Chemistry, 2021, 13, 705-713.	13.6	13
7	Synthesis, growth and characterization of benzylideneaniline compounds: N-(4-bromobenzylidene)-4-fluoroaniline and N-(4-bromobenzylidene)-4-methoxyaniline. Optical Materials, 2021, 117, 111081.	3.6	1
8	Efficient Direct Nitrosylation of Î±-Diimine Rhenium Tricarbonyl Complexes to Structurally Nearly Identical Higher Charge Congeners Activable towards Photo-CO Release. Molecules, 2021, 26, 5302.	3.8	3
9	7-OH quinoline Schiff bases: are they the long awaited tautomeric bistable switches?. Dyes and Pigments, 2021, 195, 109739.	3.7	22
10	Combatting AMR: A molecular approach to the discovery of potent and non-toxic rhenium complexes active against C.Âalbicans-MRSA co-infection. European Journal of Medicinal Chemistry, 2021, 226, 113858.	5.5	26
11	Aerobically stable and substitutionally labile Î±-diimine rhenium dicarbonyl complexes. RSC Advances, 2021, 11, 7511-7520.	3.6	6
12	Identification of novel potent and non-toxic anticancer, anti-angiogenic and antimetastatic rhenium complexes against colorectal carcinoma. European Journal of Medicinal Chemistry, 2020, 204, 112583.	5.5	41
13	Design, synthesis and inÂvivo evaluation of 3-arylcoumarin derivatives of rhenium(I) tricarbonyl complexes as potent antibacterial agents against methicillin-resistant Staphylococcus aureus (MRSA). European Journal of Medicinal Chemistry, 2020, 205, 112533.	5.5	48
14	OH Group Effect in the Stator of Î²-Diketones Arylhydrazone Rotary Switches. Chemistry, 2020, 2, 374-389.	2.2	4
15	Bimetallic Salen-Based Compounds and Their Potential Applications. Crystal Growth and Design, 2020, 20, 4945-4958.	3.0	11
16	Tautomerism and Self-Association in the Solution of New Pinene-Bipyridine and Pinene-Phenanthroline Derivatives. Molecules, 2020, 25, 298.	3.8	0
17	Indirect solvent assisted tautomerism in 4-substituted phthalimide 2-hydroxy-Schiff bases. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 237, 118416.	3.9	15
18	Different coordination abilities of 1,7- and 4,7-phenanthroline in the reactions with copper(II) salts: Structural characterization and biological evaluation of the reaction products. Polyhedron, 2019, 173, 114112.	2.2	6

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19	Tautomerism as primary signaling mechanism in metal sensing: the case of amide group. Beilstein Journal of Organic Chemistry, 2019, 15, 1898-1906.	2.2	5
20	Correlation of MLCTs of Group 7 fac -[M(CO)3]+ Complexes (M = Mn, Re) with Bipyridine, Pyridinylpyrazine, Azopyridine, and Pyridin-2-ylmethanimine Type Ligands for Rational photoCORM Design. European Journal of Inorganic Chemistry, 2019, 2019, 3758-3768.	2.0	18
21	Sequential Multiple-Target Sensor: In³⁺, Fe²⁺, and Fe³⁺ Discrimination by an Anthracene-Based Probe. Inorganic Chemistry, 2019, 58, 13796-13806.	4.0	38
22	Compartmentalization of Alkaline-Earth Metals in Salen-Type Cu- and Ni-Complexes in Solution and in the Solid State. ACS Omega, 2019, 4, 10231-10242.	3.5	5
23	In vitrocytotoxicity and catalytic evaluation of dioxidovanadium(<scp>v</scp>) complexes in an azohydrazone ligand environment. New Journal of Chemistry, 2019, 43, 17680-17695.	2.8	35
24	Silver(I) complexes with 4,7-phenanthroline efficient in rescuing the zebrafish embryos of lethal Candida albicans infection. Journal of Inorganic Biochemistry, 2019, 195, 149-163.	3.5	17
25	Isomerization and aggregation of 2-(2-(2-hydroxy-4-nitrophenyl)hydrazono)-1-phenylbutane-1,3-dione: Recent evidences from theory and experiment. Journal of Molecular Liquids, 2019, 283, 242-248.	4.9	3
26	Tautomerism in azo dyes: Border cases of azo and hydrazo tautomers as possible NMR reference compounds. Dyes and Pigments, 2019, 165, 157-163.	3.7	24
27	Synthesis and structural analysis of polynuclear silver(I) complexes with 4,7-phenanthroline. Journal of the Serbian Chemical Society, 2019, 84, 689-699.	0.8	3
28	Versatile synthesis of chiral 6-oxoverdazyl radical ligands â€“ new building blocks for multifunctional molecule-based magnets. Dalton Transactions, 2018, 47, 4785-4789.	3.3	19
29	Threading Salen-type Cu- and Ni-Complexes into One-Dimensional Coordination Polymers: Solution versus Solid State and the Size Effect of the Alkali Metal Ion. Crystal Growth and Design, 2018, 18, 1215-1226.	3.0	36
30	A concept for stimulated proton transfer in 1-(phenyldiazenyl)naphthalen-2-ols. Dyes and Pigments, 2018, 156, 91-99.	3.7	13
31	The synergistic cooperation of NHâ‹¯O and CHâ‹¯O hydrogen bonds in the structures of three new phosphoric triamides. Phosphorus, Sulfur and Silicon and the Related Elements, 2018, 193, 257-266.	1.6	2
32	Puckering behavior in six new phosphoric triamides containing aliphatic six- and seven-membered ring groups and a database survey of analogous ring-containing structures. Tetrahedron, 2018, 74, 28-41.	1.9	11
33	Mononuclear silver(I) complexes with 1,7-phenanthroline as potent inhibitors of Candida growth. European Journal of Medicinal Chemistry, 2018, 156, 760-773.	5.5	36
34	Heptacoordinate Co^{II} Complex: A New Architecture for Photochemical Hydrogen Production. Chemistry - A European Journal, 2017, 23, 6768-6771.	3.3	23
35	Different molecular assemblies in two new phosphoric triamides with the same C(O)NHP(O)(NH)2 skeleton: crystallographic study and Hirshfeld surface analysis. Chemical Papers, 2017, 71, 1809-1823.	2.2	3
36	Model peptide studies of Ag⁺binding sites from the silver resistance protein SilE. Chemical Communications, 2017, 53, 6105-6108.	4.1	24

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37	Monomeric and Dimeric Oxidomolybdenum(V and VI) Complexes, Cytotoxicity, and DNA Interaction Studies: Molybdenum Assisted Câ•N Bond Cleavage of Salophen Ligands. Inorganic Chemistry, 2017, 56, 11190-11210.	4.0	52
38	Influence of anions and solvent molecules on the packing and emission spectra of coordination polymers based on silver ions and an anthracene derivative. CrystEngComm, 2017, 19, 5106-5113.	2.6	10
39	Characteristics and properties of nano-LiCoO2 synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment. Journal of Nanobiotechnology, 2017, 15, 58.	9.1	11
40	Puckering behaviours in phosphoric triamide structures containing aliphatic ring groups. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C471-C471.	0.1	0
41	Going Nano for Batteries and Drug Delivery. Chimia, 2016, 70, 661.	0.6	0
42	Synthesis of New Polyether Ether Ketone Derivatives with Silver Binding Site and Coordination Compounds of Their Monomers with Different Silver Salts. Polymers, 2016, 8, 208.	4.5	4
43	A Thermoâ€•and Mechanoresponsive Cyanoâ€Substituted Oligo(<i>pâ€<i>phenylene vinylene) Derivative with Five Emissive States. Chemistry - A European Journal, 2016, 22, 4374-4378.	3.3	66
44	The first phosphoramideâ€“mercury(II) complex with a Cl₂Hgâ€“OP[N(C)(C)]₃segment. Acta Crystallographica Section C, Structural Chemistry, 2016, 72, 230-233.	0.5	8
45	Tandem Ringâ€Openingâ€“Ringâ€Closing Metathesis for Functional Metathesis Catalysts. Angewandte Chemie, 2016, 128, 12531-12534.	2.0	2
46	Tandem Ringâ€Openingâ€“Ringâ€Closing Metathesis for Functional Metathesis Catalysts. Angewandte Chemie - International Edition, 2016, 55, 12343-12346.	13.8	23
47	Versatile Reactivity and Theoretical Evaluation of Mono- and Dinuclear Oxidovanadium(V) Compounds of Aroylazines: Electrogeneration of Mixed-Valence Divanadium(IV,V) Complexes. Inorganic Chemistry, 2016, 55, 8407-8421.	4.0	33
48	A study of DNA/BSA interaction and catalytic potential of oxidovanadium(<scp>v</scp>) complexes with ONO donor ligands. Dalton Transactions, 2016, 45, 18292-18307.	3.3	63
49	Crystal structures of a copper(II) and the isotypic nickel(II) and palladium(II) complexes of the ligand (E)-1-[(2,4,6-tribromophenyl)diazenyl]naphthalen-2-ol. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1093-1098.	0.5	4
50	Mixed Metal Multinuclear Cr(III) Cage Compounds and Coordination Polymers Based on Unsubstituted Phenolate: Design, Synthesis, Mechanism, and Properties. Crystal Growth and Design, 2016, 16, 189-199.	3.0	10
51	Molecular interactions in crystal packing of dipeptide gels. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s332-s333.	0.1	0
52	Mixed metal multinuclear Cr(III) cage compounds and coordination polymers based on unsubstituted phenolate: design, synthesis, mechanism, and properties. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s375-s375.	0.1	0
53	Multitopic precursors for oxide materials' synthesis. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s376-s376.	0.1	0
54	Polymorphism, what it is and how to identify it. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s358-s358.	0.1	0

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55	Synergistic antimicrobial effect of silver and other metals in bimetallic complexes. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s257-s257.	0.1	0
56	Disulfide complexes: their interaction with silver(I) and copper(II). Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s532-s532.	0.1	0
57	Structure of carbonyl isocyanide complexes with rhenium and manganese: carbon monoxide releasing molecules for biological applications. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s441-s441.	0.1	0
58	Multitopic precursors for oxide materials' synthesis. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s461-s461.	0.1	0
59	Towards Cardiolite-Inspired Carbon Monoxide Releasing Molecules - Reactivity of d4, d5Rhenium and d6Manganese CarbÂonyl Complexes with Isocyanide Ligands. European Journal of Inorganic Chemistry, 2015, 2015, 5628-5638.	2.0	20
60	Nanomaterials Meet Li-ion Batteries. Chimia, 2015, 69, 734.	0.6	4
61	Synthesis, X-ray structure and in vitro cytotoxicity studies of Cu(<scp>i</scp>/<scp>ii</scp>) complexes of thiosemicarbazone: special emphasis on their interactions with DNA. Dalton Transactions, 2015, 44, 6140-6157.	3.3	94
62	4-Hydroxy-1-naphthaldehydes: proton transfer or deprotonation. Physical Chemistry Chemical Physics, 2015, 17, 10238-10249.	2.8	19
63	Crystal structure of dimethylammonium hydrogen oxalate hemi(oxalic acid). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 473-475.	0.5	4
64	Two new organotin(IV)-phosphoryl complexes: crystal structure and Hirshfeld surface analysis. Journal of the Iranian Chemical Society, 2015, 12, 2093-2103.	2.2	2
65	Controlled Tautomeric Switching in Azonaphthols Tuned by Substituents on the Phenyl Ring. ChemPhysChem, 2015, 16, 649-657.	2.1	13
66	cis-Dioxido-molybdenum(VI) complexes of tridentate ONO hydrazone Schiff base: Synthesis, characterization, X-ray crystal structure, DFT calculation and catalytic activity. Inorganica Chimica Acta, 2015, 427, 52-61.	2.4	63
67	Synthesis, X-ray structure and DFT calculation of oxido-vanadium(V) complex with a tridentate Schiff base ligand. Research on Chemical Intermediates, 2015, 41, 1881-1891.	2.7	18
68	Greasy tails switch 1D-coordination [{Zn₂(OAc)₄(4â€²-(4-ROC₆H₄)-4,2â€²:6â€²,4â€²â€²-tpy)}_n] polymers to discrete [Zn₂(OAc)₄(4â€²-(4-ROC₆H₄)-4,2â€²:6â€²,4â€²â€²-tpy)₂] complexes. CrystEngComm, 2014, 16, 9915-9929.	2.6	39
69	A new mixed-ligand copper(II) complex of (E)-Nâ€²-(2-hydroxybenzylidene) acetohydrazide: Synthesis, characterization, NLO behavior, DFT calculation and biological activities. Journal of Molecular Structure, 2014, 1072, 267-276.	3.6	47
70	Cr(II) complex: water reductant and starting compound for new Cr(III) compounds. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1385-C1385.	0.1	0
71	Crystallography for University Research: Some Basic Case Studies. Chimia, 2014, 68, 325-328.	0.6	1
72	Synthesis, Crystal Structure and Antimicrobial Activities of Di ((E)-2-(Pyridine-2-Ylmethylene)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T 4, 816-824.	0.3	0

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73	Polyhalides as scaffolds for supramolecular, ion-conducting crown ether stacks. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C634-C634.	0.1	0
74	Polymorphism, what it is and how to identify it. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1386-C1386.	0.1	0
75	Polymorphism, what it is and how to identify it: a systematic review. RSC Advances, 2013, 3, 16905.	3.6	166
76	Tandem Ring-Opening/Ring-Closing Metathesis Polymerization: Relationship between Monomer Structure and Reactivity. Journal of the American Chemical Society, 2013, 135, 10769-10775.	13.7	62
77	Controlled tautomerism â€“ switching caused by an â€œundergroundâ€•anionic effect. RSC Advances, 2013, 3, 25410.	3.6	8
78	Do perfluoroareneâ‹¯arene and Câ€“Hâ‹¯F interactions make a difference to the structures of 4,2â€²:6â€²,4â€²â€²-terpyridine-based coordination polymers?. CrystEngComm, 2013, 15, 10068.	2.6	25
79	Ring a bell: Disubstituted calix[4]arene as ligand for transition metal chlorides. Polyhedron, 2013, 52, 610-616.	2.2	4
80	A Family of Immobilizable Chiral Bis(pinenebipyridine) Ligands. Synlett, 2013, 24, 2555-2558.	1.8	0
81	Kinetics of Ion Transport through Supramolecular Channels in Single Crystals. Angewandte Chemie - International Edition, 2013, 52, 4682-4685.	13.8	30
82	Ethyl 5-methoxy-2-trifluoromethyl-1H-indole-3-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o339-o339.	0.2	1
83	7-[(Morpholin-4-yl)(phenyl)methyl]quinolin-8-ol. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o45-o45.	0.2	0
84	LiCoO2: from the precursors to the oxide. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s175-s175.	0.3	0
85	Tautomerism in 1-phenylazo-4-naphthols: Experimental results vs quantum-chemical predictions. Dyes and Pigments, 2012, 92, 714-723.	3.7	33
86	Synthesis and Characterization of New Pentacoordinate Iron-Based Aryloxide Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 2725-2730.	2.0	3
87	Preparation of Imidazolidinâ€4â€ones and Their Evaluation as Hydrolytically Cleavable Precursors for the Slow Release of Bioactive Volatile Carbonyl Derivatives. European Journal of Organic Chemistry, 2012, 2012, 2837-2854.	2.4	17
88	Efficient Amine End-Functionalization of Living Ring-Opening Metathesis Polymers. Macromolecules, 2012, 45, 4447-4453.	4.8	53
89	Switching azonaphthols containing a side chain with limited flexibility. Part 1. Synthesis and tautomeric properties. Dyes and Pigments, 2012, 92, 1266-1277.	3.7	4
90	Polymorph of Dibenzoâ€24â€Crownâ€8 and its Mercury Complex. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 672-675.	1.2	6

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91	Coordination Networks of Mercury(II) Halides and Polyether Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2089-2092.	1.2	5
92	(E)-1-(4-Methoxyanthracen-1-yl)-2-phenyldiazene. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o993-o993.	0.2	1
93	From Alkaline Earth Ion Aggregates via Transition Metal Coordination Polymer Networks towards Heterometallic Single Source Precursors for Oxidic Materials. Chimia, 2010, 64, 299.	0.6	18
94	Tautocrowns: a concept for a sensing molecule with an active side-arm. Tetrahedron, 2010, 66, 4292-4297.	1.9	32
95	Polyether Adducts of dâ€Block Metal Compounds as Starting Materials for New Cluster Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 1484-1496.	1.2	19
96	A new three dimensional proton transfer compound including citric acid and 2,4,6-triamine-1,3,5-triazine: synthesis, characterization and X-ray crystal structure. European Journal of Chemistry, 2010, 1, 179-181.	0.6	4
97	Polyether adducts ofd-block metal compounds as starting materials for new cluster compound. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s241-s242.	0.3	0