

Jan Reedijk

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#	Paper	IF	Citations
1012	Synthesis, structure, and spectroscopic properties of copper(II) compounds containing nitrogen-sulphur donor ligands; the crystal and molecular structure of aqua[1,7-bis(N-methylbenzimidazol-2-yl)-2,6-dithiaheptane]copper(II) perchlorate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1984, 1349-1356		7640
1011	Adducts of the antitumor drug cis-diamminedichloroplatinum(II) with DNA: formation, identification, and quantitation. <i>Biochemistry</i> , 1985, 24, 707-13	3.2	897
1010	Terminology of metal-organic frameworks and coordination polymers (IUPAC Recommendations 2013). <i>Pure and Applied Chemistry</i> , 2013, 85, 1715-1724	2.1	743
1009	Why does Cisplatin reach Guanine-n7 with competing s-donor ligands available in the cell?. <i>Chemical Reviews</i> , 1999, 99, 2499-510	68.1	696
1008	New clues for platinum antitumor chemistry: kinetically controlled metal binding to DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3611-6	11.5	555
1007	Putting anion-π interactions into perspective. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9564-836.4	36.4	530
1006	Improved understanding in platinum antitumour chemistry. <i>Chemical Communications</i> , 1996, 801	5.8	515
1005	Anion binding involving pi-acidic heteroaromatic rings. <i>Accounts of Chemical Research</i> , 2007, 40, 435-44	24.3	495
1004	Lone pair-π interactions: a new supramolecular bond?. <i>CrystEngComm</i> , 2008, 10, 1501	3.3	444
1003	Synthetic models of the active site of catechol oxidase: mechanistic studies. <i>Chemical Society Reviews</i> , 2006, 35, 814-40	58.5	414
1002	Copper(II)-catalysed aerobic oxidation of primary alcohols to aldehydes. <i>Chemical Communications</i> , 2003, 2414-5	5.8	414
1001	Coordination polymers, metal-organic frameworks and the need for terminology guidelines. <i>CrystEngComm</i> , 2012, 14, 3001	3.3	392
1000	Room Temperature Aerobic Copper-catalysed Selective Oxidation of Primary Alcohols to Aldehydes. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 805-811	5.6	308
999	Platinum Anticancer Coordination Compounds: Study of DNA Binding Inspires New Drug Design. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1303-1312	2.3	294
998	An aromatic anion receptor: anion-π interactions do exist. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5815-7	16.4	268
997	Coordination chemistry of chelating resins and ion exchangers. <i>Coordination Chemistry Reviews</i> , 1984, 59, 1-139	23.2	261
996	Targeting platinum anti-tumour drugs: Overview of strategies employed to reduce systemic toxicity. <i>Coordination Chemistry Reviews</i> , 2005, 249, 2845-2853	23.2	260

995	Metal-Ligand Exchange Kinetics in Platinum and Ruthenium Complexes. <i>Platinum Metals Review</i> , 2008 , 52, 2-11		247
994	Homogeneous bio-inspired copper-catalyzed oxidation reactions. <i>Chemical Society Reviews</i> , 2001 , 30, 376-385	58.5	244
993	Chemistry and magnetism of cyanido-bridged d ⁸ assemblies. <i>Coordination Chemistry Reviews</i> , 2006 , 250, 2501-2510	23.2	235
992	Model systems for type I copper proteins: structures of copper coordination compounds with thioether and azole-containing ligands. <i>Coordination Chemistry Reviews</i> , 1990 , 104, 143-172	23.2	229
991	The relevance of hydrogen bonding in the mechanism of action of platinum antitumor compounds. <i>Inorganica Chimica Acta</i> , 1992 , 198-200, 873-881	2.7	221
990	Correlation between cytotoxicity and DNA binding of polypyridyl ruthenium complexes. <i>Biochemistry</i> , 1995 , 34, 12369-78	3.2	212
989	Structure and isomerization of an intrastrand cisplatin-cross-linked octamer DNA duplex by NMR analysis. <i>Biochemistry</i> , 1995 , 34, 12912-20	3.2	204
988	The square-planar cytotoxic [Cu(II)(pyrimol)Cl] complex acts as an efficient DNA cleaver without reductant. <i>Journal of the American Chemical Society</i> , 2006 , 128, 710-1	16.4	200
987	What's New in the Realm of Anion-Binding Interactions? Putting the Anion-Interaction in Perspective. <i>Crystal Growth and Design</i> , 2008 , 8, 1082-1093	3.5	198
986	Poly beta-diketones: Prime ligands to generate supramolecular metaloclusters. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 964-989	23.2	182
985	High-spin to low-spin transition in [Fe(NCS)2(4,4'-bis-1,2,4-triazole)2](H2O). X-ray crystal structure and magnetic, Mössbauer and EPR properties. <i>Polyhedron</i> , 1990 , 9, 2971-2979	2.7	171
984	Strong differences in the in vitro cytotoxicity of three isomeric dichlorobis(2-phenylazopyridine)ruthenium(II) complexes. <i>Inorganic Chemistry</i> , 2000 , 39, 2966-7	5.1	163
983	Trinuclear N,N-bridged copper(II) complexes involving a Cu3OH core: [Cu3(mu-3-OH)L3A(H2O)2]A.(H2O)x (L = 3-acetylamino-1,2,4-triazolate; a = CF3SO3, NO3, ClO4; x = 0, 2) synthesis, X-ray structures, spectroscopy, and magnetic properties. <i>Inorganic Chemistry</i> , 2000 , 39, 1859-67	5.1	160
982	Interactions of anticancer Pt compounds with proteins: an overlooked topic in medicinal inorganic chemistry?. <i>Chemical Science</i> , 2012 , 3, 3135	9.4	155
981	The hydrolysis of the anti-cancer ruthenium complex NAMI-A affects its DNA binding and antimetastatic activity: an NMR evaluation. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 402-12	4.2	155
980	Chemical Modification of a Bridging Ligand Inside a Metal-Organic Framework while Maintaining the 3D Structure. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 1551-1554	2.3	152
979	New antitumor-active azole-bridged dinuclear platinum(II) complexes: synthesis, characterization, crystal structures, and cytotoxic studies. <i>Inorganic Chemistry</i> , 2000 , 39, 4230-6	5.1	151
978	A novel isomerization on interaction of antitumor-active azole-bridged dinuclear platinum(II) complexes with 9-ethylguanine. Platinum(II) atom migration from N2 to N3 on 1,2,3-triazole. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4738-46	16.4	149

- 977 A two-step spin crossover mononuclear iron(II) complex with a [HS-LS-LS] intermediate phase. *Chemical Communications*, **2008**, 5619-21 5.8 147
- 976 Copper complexes of the "tripod" ligand tris(2-benzimidazolylmethyl)amine: five- and six-coordinate copper(II) derivatives and some copper(I) derivatives. *Inorganic Chemistry*, **1981**, 20, 103-110 5.1 144
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- 973 New polydentate and polynucleating N-donor ligands from amines and 2,4,6-trichloro-1,3,5-triazine. *Tetrahedron Letters*, **2002**, 43, 6783-6786 2 141
- 972 Novel Hybrid Spin Systems of 7,7,8,8-Tetracyanoquinodimethane (TCNQ) Radical Anions and 4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole (abpt). Crystal Structure of [Fe(abpt)₂(TCNQ)₂] at 298 and 100 K, Mössbauer Spectroscopy, Magnetic Properties, and Infrared Spectroscopy of the Series [M(abpt)₂(TCNQ)₂] (M = Mn, Fe, Co, Ni, Cu, Zn). *Journal of the American Chemical Society*, **1991**, 113, 1000-1006 16.4 138
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- 970 Synthesis and properties of isostructural transition-metal (copper, nickel, cobalt, and iron) compounds with 7,7',8,8'-tetracyanoquinodimethanide(1-) in an unusual monodentate coordination mode: crystal structure of bis(3,5-bis(pyridin-2-yl)-4-amino-1,2,4-triazole)bis(7,7',8,8'-tetracyanoquinodimethanido)copper(II). *Inorganic Chemistry*, **2005**, 44, 1177-1184 5.1 137
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- 968 Synthesis, Characterization, Spectroscopy, and Magnetism of Dinuclear Azido- and Alkoxo-Bridged Copper(II) Complexes of Bis(2-benzimidazolyl)alkanes. X-ray Structures of [Cu₂(tbz)₂(CH₃O)₂](ClO₄)₂(CH₃OH)₂, [Cu₂(tbz)₂(NO₃)(CH₃O)₂](NO₃)(CH₃OH)₂, and [Cu₂(tbz)₂(NO₃)(CH₃O)₂](ClO₄)₂(H₂O)₂. *Inorganic Chemistry*, **2005**, 44, 4910-4917 5.1 129
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- 961 3-D lanthanide metal-organic frameworks: structure, photoluminescence, and magnetism. *Inorganic Chemistry*, **2009**, 48, 1062-8 5.1 117
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- 950 Redox Properties and Electrocatalytic Activity of the Oxo/Aqua System [Ru(terpy)(bpz)(O)]²⁺/[Ru(terpy)(bpz)(H₂O)]²⁺. X-ray Crystal Structure of [Ru(terpy)(bpz)Cl]PF₆.cntdot.MeCN (terpy = 2,2',2''-Terpyridine; bpz = 2,2'-Bipyrazine). *Inorganic Chemistry*, **2007**, 46, 1036-1042 5.1 100
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- 947 New insights in the cellular processing of platinum antitumor compounds, using fluorophore-labeled platinum complexes and digital fluorescence microscopy. *Journal of Biological Inorganic Chemistry*, **2000**, 5, 655-65 3.7 99
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939	Phenanthroline derivatives with improved selectivity as DNA-targeting anticancer or antimicrobial drugs. <i>ChemMedChem</i> , 2008 , 3, 1427-34	3.7	93
938	Spin-transition behaviour in chains of FeII bridged by 4-substituted 1,2,4-triazoles carrying alkyl tails. <i>New Journal of Chemistry</i> , 2001 , 25, 144-150	3.6	92
937	Cisplatin: synthesis, antitumour activity and mechanism of action. <i>Pharmaceutisch Weekblad Scientific Edition</i> , 1985 , 7, 173-80		91
936	Crystallographic evidence of nitrate-π interactions involving the electron-deficient 1,3,5-triazine ring. <i>Inorganic Chemistry</i> , 2006 , 45, 6637-45	5.1	90
935	Coordination Versatility of Pyrazole-Based Ligands towards High-Nuclearity Transition-Metal and Rare-Earth Clusters. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3403-3418	2.3	89
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933	Reversibility of binding of cisplatin-methionine in proteins by diethyldithiocarbamate or thiourea: a study with model adducts. <i>Inorganic Chemistry</i> , 1990 , 29, 217-222	5.1	86
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929	Ligand design in coordination chemistry: approaches to new catalysts, new materials, and a more sustainable environment. <i>Dalton Transactions</i> , 2003 , 1869	4.3	85
928	New isomeric azine-bridged dinuclear platinum(II) complexes circumvent cross-resistance to cisplatin. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 1210-9	8.3	85
927	cis-Diamminedichloroplatinum(II) induced distortion in a double-helical DNA fragment. <i>Journal of the American Chemical Society</i> , 1984 , 106, 1528-1530	16.4	84
926	Ab Initio Calculations on 2,6-Dimethylphenol and 4-(2,6-Dimethylphenoxy)-2,6-dimethylphenol. Evidence of an Important Role for the Phenoxonium Cation in the Copper-Catalyzed Oxidative Phenol Coupling Reaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12590-12594	16.4	83
925	Synthesis, Structure, Magnetic Behavior, and Mössbauer Spectroscopy of Two New Iron(II) Spin-Transition Compounds with the Ligand 4-Isopropyl-1,2,4-triazole. X-ray Structure of [Fe(3)(4-isopropyl-1,2,4-triazole)(6)(H ₂ O)(6)](tosylate)(6).2H ₂ O. <i>Inorganic Chemistry</i> , 1997 , 36, 2433-2440	5.1	83
924	Medicinal applications of heavy-metal compounds. <i>Current Opinion in Chemical Biology</i> , 1999 , 3, 236-40	9.7	82

923	Activation of the C-H bond by electrophilic attack: theoretical study of the reaction mechanism of the aerobic oxidation of alcohols to aldehydes by the Cu(bipy)(2+)/2,2,6,6-tetramethylpiperidiny-1-oxy cocatalyst system. <i>Inorganic Chemistry</i> , 2009 , 48, 11909-20	5.1	81
922	Solid-phase synthesis, characterization and DNA binding properties of the first chloro(polypyridyl)ruthenium conjugated peptide complex. <i>Dalton Transactions</i> , 2005 , 728-34	4.3	81
921	A highly flexible dinuclear ruthenium(II)-platinum(II) complex: crystal structure and binding to 9-ethylguanine. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5668-70	16.4	81
920	Zinc-catalyzed aminolysis of epoxides. <i>Tetrahedron Letters</i> , 2003 , 44, 6025-6027	2	81
919	Altered localisation of the copper efflux transporters ATP7A and ATP7B associated with cisplatin resistance in human ovarian carcinoma cells. <i>BMC Cancer</i> , 2008 , 8, 175	4.8	80
918	A Molecule-Based Nanoporous Material Showing Tuneable Spin-Crossover Behavior near Room Temperature. <i>Advanced Materials</i> , 2007 , 19, 1397-1402	24	80
917	Pyrazole-Based Ligands for the [Copper(II)-EMPO]-Mediated Oxidation of Benzyl Alcohol to Benzaldehyde and Structures of the Cu Coordination Compounds. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 4197-4206	2.3	80
916	An unprecedented 1D ladder coordination polymer based on a pentanuclear copper(II) 2,4,6-tris(dipyridin-2-ylamino)-1,3,5-triazine building block. <i>Chemical Communications</i> , 2002 , 1488-9	5.8	80
915	Synthesis, Crystal Structure, Antitumor Activity, and DNA-Binding Properties of the New Active Platinum Compound (Bis(N-methylimidazol-2-yl)carbinol)dichloroplatinum(II), Lacking a NH Moiety, and of the Inactive Analog Dichloro(N1,N1'-dimethyl-2,2'-bimidazole)platinum(II). <i>Inorganic Chemistry</i> , 1996 , 35, 619-627	5.1	80
914	Interactions of Platinum Amine Compounds with Sulfur-Containing Biomolecules and Dna Fragments. <i>Advances in Inorganic Chemistry</i> , 1991 , 37, 175-217	2.1	80
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912	Concurrent anion...pi interactions between a perchlorate ion and two pi-acidic aromatic rings, namely pentafluorophenol and 1,3,5-triazine. <i>Chemical Communications</i> , 2008 , 3384-6	5.8	79
911	Isotropic and Anisotropic Magnetic Exchange Interactions through μ -N1,N2 1,2,4-Triazole and μ -Sulfato Bridges: X-ray Crystal Structure, Magnetic Properties, and Single-Crystal EPR Study of (μ -4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole-N',N1,N2,N'')(μ -sulfato-O,O')[(sulfato-O)aquacopper(II)]triaquacopper(II) Hydrate. <i>Inorganic Chemistry</i> , 1995 , 34, 5175-5182	5.1	79
910	Trigonal propeller-shaped [Mn(III)3M(II)Na] complexes (M = Mn, Ca): structural and functional models for the dioxygen evolving centre of PSII. <i>Dalton Transactions</i> , 2011 , 40, 2699-702	4.3	77
909	Crystallographic and Theoretical Evidence of Acetonitrile...Interactions with the Electron-Deficient 1,3,5-Triazine Ring. <i>Crystal Growth and Design</i> , 2006 , 6, 1569-1574	3.5	76
908	Structure-dependent in vitro cytotoxicity of the isomeric complexes [Ru(L)2Cl2] (L= o-tolylazopyridine and 4-methyl-2-phenylazopyridine) in comparison to [Ru(azpy)2Cl2]. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 354-64	3.7	76
907	Synthesis, spectroscopic, and electrochemical properties of bis(2,2'-bipyridyl)-ruthenium compounds of some pyridyl-1,2,4-triazoles. <i>Journal of the Chemical Society Dalton Transactions</i> , 1987 , 1389-1395		76
906	Synthesis, spectroscopic properties and X-ray crystal structures of two dinuclear alkoxo-bridged copper(II) compounds with the ligand bis(1-methyl-2-benzimidazolyl) propane. A unique alkoxo-bridged Cu(II) dinuclear compound with an additional bidentate bridging triflate anion. <i>Inorganica Chimica Acta</i> , 1997 , 260, 151-161	2.7	75

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- 903 Synthesis, structure, and spectroscopic properties of bismuth citrate compounds. 1. Crystal structures of K_{5-x}(NH₄)_x[Bi₂(cit)₂(Hcit)](H₂O)_y (x = 0.25, y = 13) and (NH₄)₈[Bi₂(cit)₂(Hcit)₂(H₂O)₄](H₂O)₂. *Inorganic Chemistry*, **1991**, 30, 4210-4218 5.1 75
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- 901 X-ray absorption edge spectroscopy of copper(I) complexes. Coordination geometry of copper(I) in the reduced forms of copper proteins and their derivatives with carbon monoxide. *Inorganic Chemistry*, **1989**, 28, 1349-1357 5.1 74
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27	Mimicking Nature: Bio-Inspired Models of Copper Proteins 101-127		1
26	Platinum-Based Anticancer Drugs Based in part on the article Platinum-Based Anticancer Drugs by Steven J. Brown, Christine S. Chow & Stephen J. Lippard which appeared in the Encyclopedia of Inorganic Chemistry, First Edition. 2006 ,		1
25	μ_3 -bis{chloro[N-(2-methoxyethyl)-N,N-bis(pyridin-2-ylmethyl)amine- μ -N,N',N'',O]}iron(III)} bis(trifluoromethanesulfonate) acetonitrile disolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, m1042-m1044		1
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