Rudi van Eldik

List of Publications by Year
in descending order

347 papers	9,029 citations	44069 48 h-index	88630 70 g-index
386 all docs	386 docs citations	386 times ranked	6880 citing authors

#	Article	IF	Citations
1	Hydration and Water Exchange of Zinc(II) Ions. Application of Density Functional Theory. Journal of the American Chemical Society, 1997, 119, 7843-7850.	13.7	184
2	Gutmann Donor and Acceptor Numbers for Ionic Liquids. Chemistry - A European Journal, 2012, 18, 10969-10982.	3.3	168
3	Electronic Tuning of the Lability of Pt(II) Complexes through Ï€-Acceptor Effects. Correlations between Thermodynamic, Kinetic, and Theoretical Parameters. Inorganic Chemistry, 2003, 42, 1688-1700.	4.0	156
4	Kinetics, Mechanism, and Spectroscopy of the Reversible Binding of Nitric Oxide to Aquated Iron(II). An Undergraduate Text Book Reaction Revisited. Inorganic Chemistry, 2002, 41, 4-10.	4.0	146
5	Understanding chemical reaction mechanisms in ionic liquids: successes and challenges. Chemical Society Reviews, 2011, 40, 272-290.	38.1	145
6	Mechanistic Studies on the Reversible Binding of Nitric Oxide to Metmyoglobin. Journal of the American Chemical Society, 2001, 123, 285-293.	13.7	137
7	Kinetics and Mechanism of the Reversible Binding of Nitric Oxide to Reduced Cobalamin B12r(Cob(II)alamin). Journal of the American Chemical Society, 2001, 123, 9780-9791.	13.7	131
8	Cyclometalated Analogues of Platinum Terpyridine Complexes:Â Kinetic Study of the Strong Ïƒ-Donor Cis and Trans Effects of Carbon in the Presence of a Ï€-Acceptor Ligand Backbone. Inorganic Chemistry, 2003, 42, 6528-6538.	4.0	122
9	Drug Metabolism by Cytochrome P450 Enzymes: What Distinguishes the Pathways Leading to Substrate Hydroxylation Over Desaturation?. Chemistry - A European Journal, 2015, 21, 9083-9092.	3.3	116
10	Metal ion-catalyzed oxidative degradation of Orange II by H₂O₂. High catalytic activity of simple manganese salts. New Journal of Chemistry, 2009, 33, 34-49.	2.8	115
11	Controlling the Lability of Square-Planar PtII Complexes through Electronic Communication between Ï€-Acceptor Ligands. Angewandte Chemie - International Edition, 2001, 40, 1680-1683.	13.8	113
12	Guest Exchange Dynamics in an M4L6Tetrahedral HostÂ§. Journal of the American Chemical Society, 2006, 128, 1324-1333.	13.7	109
13	New Mechanistic Aspects of the Fenton Reaction. Chemistry - A European Journal, 2009, 15, 8303-8309.	3.3	98
14	Mechanistic studies on the reactions of platinum(ii) complexes with nitrogen- and sulfur-donor biomolecules. Dalton Transactions, 2012, 41, 12329.	3.3	98
15	Mechanistic studies on the formation of Pt(II) hydroformylation catalysts in imidazolium-based ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3567-3576.	1.8	94
16	Tuning the Reversible Binding of NO to Iron(II) Aminocarboxylate and Related Complexes in Aqueous Solution. European Journal of Inorganic Chemistry, 2001, 2001, 491-501.	2.0	85
17	To be or not to be NO in coordination chemistry? A mechanistic approach. Coordination Chemistry Reviews, 2002, 230, 263-282.	18.8	83
18	Fundamental signatures of short- and long-range electron transfer for the blue copper protein azurin at Au/SAM junctions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2757-2762.	7.1	76

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19	Triggering Water Exchange Mechanisms via Chelate Architecture. Shielding of Transition Metal Centers by Aminopolycarboxylate Spectator Ligands. Journal of the American Chemical Society, 2008, 130, 14556-14569.	13.7	72
20	Aquacobalamin (Vitamin B12a) Does Not Bind NO in Aqueous Solution. Nitrite Impurities Account for Observed Reaction. Inorganic Chemistry, 2000, 39, 2018-2019.	4.0	71
21	Kinetics, mechanism and equilibrium studies on the substitution reactions of Pd(II) in reference to Pt(II) complexes with bio-molecules. Coordination Chemistry Reviews, 2015, 292, 91-106.	18.8	71
22	Kinetics and mechanism of the reaction of chelated Pd(ii) complexes with thiols in acidic aqueous solution. Synthesis and crystal structure of [Pd(bpma)Cl]ClÂ·H2O (bpma = bis(2-pyridylmethyl)amine). Dalton Transactions RSC, 2002, , 951.	2.3	70
23	Complex-formation reactions and stability constants for mixed-ligand complexes of diaqua(2-picolylamine)palladium(ii) with some bio-relevant ligands. Dalton Transactions, 2003, , 1425-1432.	3.3	68
24	Effect of Chelate Dynamics on Water Exchange Reactions of Paramagnetic Aminopolycarboxylate Complexes. Inorganic Chemistry, 2008, 47, 5702-5719.	4.0	67
25	Water Exchange Controls the Complex-Formation Mechanism of Water-Soluble Iron(III) Porphyrins: Conclusive Evidence for Dissociative Water Exchange from a High-Pressure17O NMR Study. Angewandte Chemie - International Edition, 2001, 40, 1678-1680.	13.8	66
26	Mechanistic studies on the oxidative degradation of Orange II by peracetic acid catalyzed by simple manganese(<scp>ii</scp>) salts. Tuning the lifetime of the catalyst. New Journal of Chemistry, 2012, 36, 732-748.	2.8	65
27	Influence of Chelate Effects on the Water-Exchange Mechanism of Polyaminecarboxylate Complexes of Iron(III). Inorganic Chemistry, 2001, 40, 3670-3676.	4.0	64
28	Redox cycling in the activation of peroxides by iron porphyrin and manganese complexes. â€˜Catchingâ€™ catalytic active intermediates. Coordination Chemistry Reviews, 2016, 306, 483-509.	18.8	63
29	Release of NO from Reduced Nitroprusside Ion. Iron-Dinitrosyl Formation and NO-Disproportionation Reactions. Inorganic Chemistry, 2005, 44, 2781-2790.	4.0	61
30	Low-Temperature Rapid-Scan Detection of Reactive Intermediates in Epoxidation Reactions Catalyzed by a New Enzyme Mimic of Cytochrome P450. Journal of the American Chemical Society, 2007, 129, 12473-12479.	13.7	61
31	Novel Iron(III) Porphyrazine Complex. Complex Speciation and Reactions with NO and H₂O₂. Inorganic Chemistry, 2008, 47, 2994-3013.	4.0	61
32	A highâ€pressure NMR probehead for measurements at 400 MHz. Review of Scientific Instruments, 1994, 65, 882-886.	1.3	60
33	Mechanistic Information on the Reversible Binding of NO to Selected Iron(II) Chelates from Activation Parameters. Inorganic Chemistry, 2002, 41, 2565-2573.	4.0	60
34	Substrate Binding Favors Enhanced NO Binding to P450cam. Journal of the American Chemical Society, 2004, 126, 4181-4191.	13.7	58
35	Mechanistic Studies on the Binding of Nitric Oxide to a Synthetic Hemeâ^'Thiolate Complex Relevant to Cytochrome P450. Journal of the American Chemical Society, 2005, 127, 5360-5375.	13.7	57
36	Mechanistic studies on versatile metal-assisted hydrogen peroxide activation processes for biomedical and environmental incentives. Coordination Chemistry Reviews, 2016, 327-328, 143-165.	18.8	57

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37	Mechanistic Studies on Peroxide Activation by a Water-Soluble Iron(III)â€“Porphyrin: Implications for Oï£¿O Bond Activation in Aqueous and Nonaqueous Solvents. Chemistry - A European Journal, 2007, 13, 4873-4883.	3.3	56
38	Temperature- and pressure-dependent stopped-flow kinetic studies of jack bean urease. Implications for the catalytic mechanism. Journal of Biological Inorganic Chemistry, 2012, 17, 1123-1134.	2.6	56
39	Searching for Stable, Five-Coordinate Aquated Al(III) Species. Water Exchange Mechanism and Effect of pH. Inorganic Chemistry, 2007, 46, 1112-1122.	4.0	54
40	Ligand Effects on the Kinetics of the Reversible Binding of NO to Selected Aminocarboxylato Complexes of Iron(II) in Aqueous Solution. European Journal of Inorganic Chemistry, 2001, 2001, 2317-2325.	2.0	53
41	pH Controls the Rate and Mechanism of Nitrosylation of Water-Soluble FeIIIPorphyrin Complexes. Journal of the American Chemical Society, 2005, 127, 13312-13315.	13.7	53
42	Direct Comparison of the Reactivity of Model Complexes for Compounds 0, I, and II in Oxygenation, Hydrogenâ€Abstraction, and Hydrideâ€Transfer Processes. Chemistry - A European Journal, 2009, 15, 13435-13440.	3.3	53
43	The reduction of (ImH)[trans-RuIIIICl4(dmso)(Im)] under physiological conditions: preferential reaction of the reduced complex with human serum albumin. Journal of Biological Inorganic Chemistry, 2008, 13, 909-918.	2.6	52
44	Kinetics and mechanism of the reactions of [Pt(terpy)H2O]2+ with thiols in acidic aqueous solution. Synthesis and crystal structure of [Pt(terpy)(tu)](ClO4)2 (tu = thiourea). Dalton Transactions RSC, 2002, , 2825.	2.3	50
45	Thermodynamics and kinetics of RuIII(edta) as an efficient scavenger for nitric oxide in aqueous solution. Dalton Transactions RSC, 2002, , 941-950.	2.3	50
46	Which Oxidant Is Really Responsible for P450 Model Oxygenation Reactions? A Kinetic Approach. Angewandte Chemie - International Edition, 2008, 47, 5238-5242.	13.8	50
47	Transition-State Effects of Ionic Liquids in Substitution Reactions of PtII Complexes. Angewandte Chemie - International Edition, 2005, 44, 6033-6038.	13.8	49
48	Evidence for Associative Ligand Exchange Processes on Solvated Lithium Cations. Inorganic Chemistry, 2004, 43, 8227-8229.	4.0	48
49	MnIIâ€”A fascinating oxidation catalyst: Mechanistic insight into the catalyzed oxidative degradation of organic dyes by H2O2. Applied Catalysis B: Environmental, 2010, 95, 179-191.	20.2	48
50	Role of Ï€-Acceptor Effects in Controlling the Lability of Novel Monofunctional Pt(II) and Pd(II) Complexes: Crystal Structure of [Pt(tripyridinedimethane)Cl]Cl. Inorganic Chemistry, 2012, 51, 1516-1529.	4.0	48
51	Structural and mechanistic information on the reaction of bicarbonate with Cu(II) and Zn(II) complexes of tris(2-aminoethyl)amine. Identification of intermediate and product species. Dalton Transactions RSC, 2001, , 1593-1600.	2.3	47
52	Substitution versus redox reactions of gold(<scp>iii</scp>) complexes with <scp>l</scp>-cysteine, <scp>l</scp>-methionine and glutathione. Dalton Transactions, 2014, 43, 3911-3921.	3.3	47
53	Kinetic and Mechanistic Studies on the Reaction of Nitric Oxide with a Water-Soluble Octa-anionic Iron(III) Porphyrin Complex. Inorganic Chemistry, 2005, 44, 7717-7731.	4.0	46
54	Ligand Interchange Controls Many Oxidations of Divalent First-Row Transition Metal Ions by Free Radicals. Inorganic Chemistry, 1994, 33, 1566-1568.	4.0	44

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55	Elucidation of inorganic reaction mechanisms through volume profile analysis. Coordination Chemistry Reviews, 1999, 187, 329-374.	18.8	44
56	Thermodynamic and kinetic study of the interaction between the Pt(ii) centres in [Pt2(N,N,Nâ€²,Nâ€²-tetrakis(2-pyridylmethyl)diamine)(H2O)2]4+. Influence of the bridging ligand. Dalton Transactions, 2003, , 2979-2985.	3.3	44
57	Thermodynamic, Electrochemical, High-Pressure Kinetic, and Mechanistic Studies of the Formation of Oxo FeIVâ^'TAML Species in Water. Inorganic Chemistry, 2010, 49, 11439-11448.	4.0	44
58	Solvent and Pressure Effects on the Motions of Encapsulated Guests: Tuning the Flexibility of a Supramolecular Host. Journal of the American Chemical Society, 2013, 135, 4299-4306.	13.7	44
59	High-Pressure Oxygen-17 NMR Study of the Dihydroxo-Bridged Rhodium(III) Hydrolytic Dimer. Mechanistic Evidence for Limiting Dissociative Water Exchange Pathways. Inorganic Chemistry, 1998, 37, 3948-3953.	4.0	43
60	Tuning the reactivity of chelated dinuclear Pt(ii) complexes through a flexible diamine linker. A detailed kinetic and mechanistic study. Dalton Transactions, 2010, 39, 3595.	3.3	43
61	Cobalamin reduction by dithionite. Evidence for the formation of a six-coordinate cobalamin(ii) complex. Dalton Transactions, 2011, 40, 9831.	3.3	43
62	Chemical composition of submicron and fine particulate matter collected in Krakow, Poland. Consequences for the APARIC project. Chemosphere, 2017, 187, 430-439.	8.2	42
63	Volume profile analysis of the formation and dissociation of carboxymyoglobin. Comparison with the corresponding oxymyoglobin system. Inorganic Chemistry, 1991, 30, 3288-3293.	4.0	41
64	Mechanistic Studies on the Activation of NO by Iron and Cobalt Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 773-798.	2.0	41
65	Ligand-Exchange Processes on Solvated Lithium Cations: DMSO and Water/DMSO Mixtures. ChemPhysChem, 2007, 8, 1315-1320.	2.1	41
66	Comparative study of the catalytic activity of [MnII(bpy)2Cl2] and [Mn2III/IV(Î¼-O)2(bpy)4](ClO4)3 in the H2O2 induced oxidation of organic dyes in carbonate buffered aqueous solution. Dalton Transactions, 2010, 39, 3264.	3.3	41
67	Thermodynamic and Kinetic Studies on Novel Dinuclear Platinum(II) Complexes Containing BidentateN,N-donor ligands. Inorganic Chemistry, 2011, 50, 8984-8996.	4.0	41
68	Studies on the reactions of [AuCl₄]^{â^'} with different nucleophiles in aqueous solution. Dalton Transactions, 2014, 43, 8620-8632.	3.3	41
69	Complex-formation reactions of Cu(ii) and Zn(ii) 2,2â€²-bipyridine and 1,10-phenanthroline complexes with bicarbonate. Identification of different carbonate coordination modes. Dalton Transactions RSC, 2001, , 3652-3662.	2.3	40
70	Generation of hydroxyl radicals and singlet oxygen by particulate matter and its inorganic components. Environmental Pollution, 2018, 238, 638-646.	7.5	40
71	Effect of pressure on the formation and deoxygenation kinetics of oxymyoglobin. Mechanistic information from a volume profile analysis. Journal of the American Chemical Society, 1990, 112, 17-22.	13.7	39
72	Interaction of [RuIII(edta)(H2O)]â€“ with amino acids in aqueous solution. Equilibrium, kinetic and protease inhibition studiesElectronic supplementary information (ESI) available: kinetic plots and a scheme showing the reaction between [RuIII(edta)(H2O)]â€“ and cysteine. See http://www.rsc.org/suppdata/dt/b2/b208495n/. Dalton Transactions, 2003, , 203-209.	3.3	39

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73	Thermodynamic and Kinetic Studies on the Binding of Nitric Oxide to a New Enzyme Mimic of Cytochrome P450. Journal of the American Chemical Society, 2006, 128, 13611-13624.	13.7	39
74	Activation Parameters for Hemeâ"NO Binding in Alcaligenes xylosoxidans Cytochrome câ€²: The Putative Dinitrosyl Intermediate Forms via a Dissociative Mechanism. Journal of the American Chemical Society, 2009, 131, 4846-4853.	13.7	39
75	Elucidation of the Solution Structure and Water-Exchange Mechanism of Paramagnetic [FeII(edta)(H2O)]2-. Inorganic Chemistry, 2007, 46, 5361-5371.	4.0	38
76	Detailed Spectroscopic, Thermodynamic, and Kinetic Studies on the Protolytic Equilibria of Fe^{III}cydta and the Activation of Hydrogen Peroxide. Inorganic Chemistry, 2009, 48, 7864-7884.	4.0	38
77	Kinetics and Mechanism of the Interaction of Nitric Oxide with Pentacyanoferrate(II). Formation and Dissociation of [Fe(CN)5NO]3-. Inorganic Chemistry, 2003, 42, 4179-4189.	4.0	37
78	Metal complex-assisted activation of small molecules. From NO to superoxide and peroxides. Dalton Transactions, 2008, , 5259.	3.3	37
79	High-Pressure Testing of Heterogeneous Charge Transfer in a Room-Temperature Ionic Liquid:â€‰ Evidence for Solvent Dynamic Control. Journal of Physical Chemistry B, 2008, 112, 3085-3100.	2.6	37
80	Reduction of some Pt(iv) complexes with biologically important sulfur-donor ligands. Dalton Transactions, 2013, 42, 8890.	3.3	37
81	A Comparative Mechanistic Study of the Reversible Binding of NO to a Water-Soluble Octa-Cationic FeIIIPorphyrin Complex. Inorganic Chemistry, 2006, 45, 1326-1337.	4.0	36
82	Ligand-Exchange Processes on Solvated Lithium Cations: Acetonitrile and Hydrogen Cyanide. European Journal of Inorganic Chemistry, 2007, 2007, 1815-1822.	2.0	36
83	Kinetics and mechanism of the reduction of (ImH)[trans-RuCl4(dmso)(Im)] by ascorbic acid in acidic aqueous solution. Journal of Biological Inorganic Chemistry, 2007, 12, 809-818.	2.6	36
84	Remarkably high catalytic activity of the RuIII(edta)/H2O2 system towards degradation of the azo-dye Orange II. Dalton Transactions, 2011, 40, 10473.	3.3	36
85	Substitution behaviour of novel dinuclear Pt(<scp>ii</scp>) complexes with bio-relevant nucleophiles. Dalton Transactions, 2012, 41, 876-884.	3.3	36
86	Influence of an Extremely Negatively Charged Porphyrin on the Reversible Binding Kinetics of NO to Fe(III) and the Subsequent Reductive Nitrosylation. Inorganic Chemistry, 2007, 46, 3336-3352.	4.0	35
87	Kinetic Studies on the Reactions of Different Bifunctional Platinum(II) Complexes with Selected Nucleophiles. European Journal of Inorganic Chemistry, 2010, 2010, 5439-5445.	2.0	35
88	Kinetics and mechanism of the reactions of Au(iii) complexes with some biologically relevant molecules. Dalton Transactions, 2012, 41, 3633.	3.3	35
89	Kinetics and Mechanism of the Reaction of Hydrogen Sulfide with Diaquacobinamide in Aqueous Solution. European Journal of Inorganic Chemistry, 2014, 2014, 4123-4133.	2.0	35
90	Substitution behaviour of amine-bridged dinuclear Pt(ii) complexes with bio-relevant nucleophiles. Dalton Transactions, 2008, , 2759.	3.3	34

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91	Mechanistic Investigations of the Reaction of an Iron(III) Octa-Anionic Porphyrin Complex with Hydrogen Peroxide and the Catalyzed Oxidation of Diammonium-2,2â€²-azinobis(3-ethylbenzothiazoline-6-sulfonate). Inorganic Chemistry, 2009, 48, 7667-7678.	4.0	34
92	Mechanistic information on some inorganic and bioinorganic reactions from volume profile analysis. Inorganica Chimica Acta, 2010, 363, 2357-2374.	2.4	34
93	Kinetics and Mechanism of the Formation of Nitroprusside from Aquapentacyanoferrate(III) and NO:Â Complex Formation Controlled by Outer-Sphere Electron Transfer. Inorganic Chemistry, 2002, 41, 5417-5425.	4.0	33
94	Quantum Chemical Analysis of the Enantiomerisation Mechanism of Complexes of the Type [MII(XU)4]F+ (M = Pt, Pd, Ni; X = S, Se, Te;U = urea). European Journal of Inorganic Chemistry, 2006, 2006, 4063-4067.	2.0	33
95	Thermodynamic and Kinetic Studies on Reactions of FeIII(meso-[tetra(3-sulfonatomesityl)porphin]) with NO in an Ionic Liquid. Trace Impurities Can Change the Mechanism!. Inorganic Chemistry, 2009, 48, 7466-7475.	4.0	33
96	Combined Experimental and Theoretical Study on the Reactivity of Compounds I and II in Horseradish Peroxidase Biomimetics. Chemistry - A European Journal, 2014, 20, 14437-14450.	3.3	33
97	NO Binding to Cobalamin:Â Influence of the Metal Oxidation State. Inorganic Chemistry, 2004, 43, 2828-2833.	4.0	32
98	Mechanistic studies of reactions of coordination compounds. Some recent highlights. Journal of Coordination Chemistry, 2007, 60, 1-51.	2.2	32
99	Mechanistic Insight into Formation of Oxoâ€Iron(IV) Porphyrin Ï€â€Cation Radicals from Enzyme Mimics of Cytochrome P450 in Organic Solvents. Chemistry - A European Journal, 2009, 15, 2941-2959.	3.3	32
100	Equilibrium and kinetic data for the interaction of diaqua-(S-methyl-l-cysteine)palladium(ii) with biologically relevant ligands. Dalton Transactions RSC, 2002, , 3945.	2.3	31
101	Multiple Mechanisms for Electron Transfer at Metal/Selfâ€Assembled Monolayer/Roomâ€Temperature Ionic Liquid Junctions: Dynamical Arrest versus Frictional Control and Nonâ€Adiabaticity. Chemistry - A European Journal, 2009, 15, 5254-5262.	3.3	31
102	Fast Substitution Reactions of Pt(II) in Different Ionic Liquids. Reactivity Control by Anionic Components. Inorganic Chemistry, 2009, 48, 588-597.	4.0	31
103	Reactions of methyl viologen and nitrite with thiourea dioxide. New opportunities for an old reductant. Dalton Transactions RSC, 2002, , 4074-4076.	2.3	30
104	Rational Design of Cation Hosts â€“ Prediction of Cation Selectivity by Quantum Chemical Calculations. Zeitschrift Fur Physikalische Chemie, 2006, 220, 511-523.	2.8	30
105	Self-Exchange Reaction Kinetics of Metallocenes Revisited:â€‰ Insights from the Decamethylferriceniumâ^'Decamethylferrocene Reaction at Variable Pressure. Inorganic Chemistry, 2003, 42, 3718-3722.	4.0	29
106	Equilibrium and Kinetic Studies of the Reactions between Aqua[1-(2-aminoethyl)piperazine]palladium(II) and Biologically Relevant Nucleophiles. European Journal of Inorganic Chemistry, 2009, 2009, 2261-2270.	2.0	29
107	Thermodynamics of Axial Substitution and Kinetics of Reactions with Amino Acids for the Paddlewheel Complex Tetrakis(acetato)chloridodiruthenium(II,III). Inorganic Chemistry, 2012, 51, 6615-6625.	4.0	29
108	Mechanistic Analysis of Reductive Nitrosylation on Water-Soluble Cobalt(III)-Porphyrins. Journal of the American Chemical Society, 2006, 128, 8042-8053.	13.7	28

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109	Ligand Exchange Processes on Solvated Beryllium Cations. II [Be(solvent)(12â€Crownâ€4)]²⁺. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 735-739.	1.2	28
110	Mechanistic Studies on Fast Ligand Substitution Reactions of Pt(II) in Different Ionic Liquids: Role of Solvent Polarity and Ion-Pair Formation. Inorganic Chemistry, 2008, 47, 7121-7132.	4.0	28
111	Ligand exchange processes on the smallest solvated alkali and alkaline earth metal cations: An experimental and theoretical approach. Advances in Inorganic Chemistry, 2009, 61, 523-571.	1.0	28
112	[Ru^{III}(edta)(H₂O)]^{â^'}mediated oxidation of hydroxyurea with H₂O₂. Kinetic and mechanistic investigation. Dalton Transactions, 2010, 39, 1695-1698.	3.3	28
113	Axial Ligand and Spinâ€State Influence on the Formation and Reactivity of Hydroperoxoâ€“Iron(III) Porphyrin Complexes. Chemistry - A European Journal, 2012, 18, 6935-6949.	3.3	28
114	Stability and reactivity of gold compounds â€“ From fundamental aspects to applications. Coordination Chemistry Reviews, 2017, 338, 186-206.	18.8	28
115	Mechanism of water exchange on five-coordinate copper(ii) complexes. Dalton Transactions RSC, 2002, , 957.	2.3	27
116	Reaction of [RuIII(edta)(H2O)]? with H2O2 in aqueous solution. Kinetic and mechanistic investigation. Dalton Transactions, 2007, , 943.	3.3	27
117	Kinetic and mechanistic studies on reactions of diruthenium(ii,iii) with biologically relevant reducing agents. Dalton Transactions, 2013, 42, 16796.	3.3	27
118	Kinetics and Mechanism of the Reaction of Hydrogen Sulfide with Cobalamin in Aqueous Solution. European Journal of Inorganic Chemistry, 2014, 2014, 852-862.	2.0	27
119	Mechanistic Studies on the Nitrite-Catalyzed Reductive Nitrosylation of Highly Charged Anionic and Cationic FeIIIPorphyrin Complexes. Inorganic Chemistry, 2006, 45, 6523-6534.	4.0	26
120	Kinetic, Thermodynamic, and Mechanistic Patterns for Free (Unbound) Cytochromec at Au/SAM Junctions: Impact of Electronic Coupling, Hydrostatic Pressure, and Stabilizing/Denaturing Additives. Chemistry - A European Journal, 2006, 12, 7041-7056.	3.3	26
121	Hostâ€“Guest Complexes of Oligopyridine Cryptands: Prediction of Ion Selectivity by Quantum Chemical Calculations. European Journal of Inorganic Chemistry, 2007, 2007, 1120-1127.	2.0	26
122	Equilibrium Studies on Complexâ€Formation Reactions of Pd[(2â€(2â€aminoethyl)pyridine)(H₂O)₂]²⁺ with Ligands of Biological Significance and Displacement Reactions of DNA Constituents. European Journal of Inorganic Chemistry, 2009, 2009, 3912-3920.	2.0	26
123	Structural, Spectroscopic, and Kinetic Investigation of the Molybdenum Dialkylhydrazido Complexes [MoBr(NNC5H10)(dppe)2]Br and [Mo(NNC5H10)(dppe)2]: Activation Parameters and Revised Mechanism for Nâ^'N Cleavageâ€. Inorganic Chemistry, 2009, 48, 2078-2093.	4.0	26
124	Factors That Determine the Mechanism of NO Activation by Metal Complexes of Biological and Environmental Relevance. European Journal of Inorganic Chemistry, 2013, 2013, 460-480.	2.0	26
125	Spectroscopic, thermodynamic, kinetic studies and oxidase/antioxidant biomimetic catalytic activities of tris(3,5-dimethylpyrazolyl)borate Cu(<scp>ii</scp>) complexes. Dalton Transactions, 2015, 44, 14110-14121.	3.3	26
126	Kinetics and mechanism of the complex formation of ethylenediaminetetraacetatoferrate(III) with sulfur(IV) oxides in aqueous solution. Journal of the Chemical Society Dalton Transactions, 1992, , 1037.	1.1	25

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127	Thermodynamic and Kinetic Studies on the Reaction between the Vitamin B12Derivative Î²-(N-Methylimidazolyl)cobalamin andN-Methylimidazole:Â Ligand Displacement at the Î± Axial Site of Cobalamins. Inorganic Chemistry, 2001, 40, 1430-1438.	4.0	25
128	Influence of Solvent on Ligand-Substitution Reactions of PtII Complexes as Function of the -Acceptor Properties of the Spectator Chelate. European Journal of Inorganic Chemistry, 2005, 2005, 4755-4761.	2.0	25
129	Kinetic and thermodynamic studies on ligand substitution reactions and base-on/base-off equilibria of cyanoimidazolylcobamide, a vitamin B12 analog with an imidazole axial nucleoside. Dalton Transactions, 2005, , 782.	3.3	25
130	Reactivity of Aquacobalamin and Reduced Cobalamin towardS-Nitrosoglutathione andS-Nitroso-N-acetylpenicillamine. Inorganic Chemistry, 2006, 45, 1367-1379.	4.0	25
131	The Classic â€œBrown-Ringâ€•Reaction in a New Medium: Kinetics, Mechanism, and Spectroscopy of the Reversible Binding of Nitric Oxide to Iron(II) in an Ionic Liquid. Inorganic Chemistry, 2011, 50, 3946-3958.	4.0	25
132	Host - Guest Complexes of Bicyclic Hexaamine Cryptands - Prediction of Ion Selectivity by Quantum Chemical Calculations. III. Australian Journal of Chemistry, 2007, 60, 889.	0.9	24
133	Interplay between Acetate Ions, Peripheral Groups, and Reactivity of the Core Nitrogens in Transmetalation of Tetrapyrroles. Chemistry - A European Journal, 2008, 14, 9419-9430.	3.3	24
134	Versatile and fast gas chromatographic determination of frequently used brominated flame retardants in styrenic polymers. Journal of Chromatography A, 2008, 1203, 217-228.	3.7	24
135	Synthesis, Characterization, Thermodynamic and Kinetic Properties of a New Series of Dinuclear PtIIComplexes. European Journal of Inorganic Chemistry, 2009, 2009, 1331-1338.	2.0	24
136	Mechanistic Insight from Activation Parameters for the Reaction of a Ruthenium Hydride Complex with CO₂ in Conventional Solvents and an Ionic Liquid. Inorganic Chemistry, 2012, 51, 7340-7345.	4.0	24
137	Thermodynamic and kinetic behaviour of [Pt(2-methylthiomethylpyridine)(OH2)2]2+. Dalton Transactions, 2012, 41, 512-522.	3.3	24
138	Structure and reactivity of [Ru^{II}(terpy)(N^N)Cl]Cl complexes: consequences for biological applications. Dalton Transactions, 2017, 46, 10264-10280.	3.3	24
139	The substitution mechanism of [Ruiii(edta)(H2O)]â^' with DNA bases, nucleoside and nucleotides in aqueous solution revisited. Dalton Transactions RSC, 2002, , 962.	2.3	23
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