Helmut Sigel

List of Publications by Year
in descending order

267 papers	12,817 citations	19608 61 h-index	30010 103 g-index
299 all docs	299 docs citations	299 times ranked	5848 citing authors

#	Article	IF	Citations
1	Coordinating properties of the amide bond. Stability and structure of metal ion complexes of peptides and related ligands. Chemical Reviews, 1982, 82, 385-426.	23.0	1,544
2	Interactions of metal ions with nucleotides and nucleic acids and their constituents. Chemical Society Reviews, 1993, 22, 255.	18.7	361
3	Ternary Cu2+ Complexes: Stability, Structure, and Reactivity. Angewandte Chemie International Edition in English, 1975, 14, 394-402.	4.4	320
4	Comparison of the Extent of Macrochelate Formation in Complexes of Divalent Metal Ions with Guanosine (GMP2-), Inosine (IMP2-), and Adenosine 5'-Monophosphate (AMP2-). The Crucial Role of N-7 Basicity in Metal Ion-Nucleic Base Recognition. Journal of the American Chemical Society, 1994, 116, 2958-2971.	6.6	291
5	Discriminating behavior of metal ions and ligands with regard to their biological significance. Accounts of Chemical Research, 1970, 3, 201-208.	7.6	288
6	Nucleoside 5â€²-triphosphates: self-association, acidâ€"base, and metal ion-binding properties in solution. Chemical Society Reviews, 2005, 34, 875.	18.7	217
7	Macrochelate formation in monomeric metal ion complexes of nucleoside 5'-triphosphates and the promotion of stacking by metal ions. Comparison of the self-association of purine and pyrimidine 5'-triphosphates using proton nuclear magnetic resonance. Journal of the American Chemical Society, 1981, 103, 247-260.	6.6	214
8	A Stability Concept for Metal Ion Coordination to Single-Stranded Nucleic Acids and Affinities of Individual Sites. Accounts of Chemical Research, 2010, 43, 974-984.	7.6	206
9	Ternary complexes in solution. VIII. Complex formation between the copper(II)-2,2'-bipyridyl 1:1 complex and ligands containing oxygen and/or nitrogen donor atoms. Inorganic Chemistry, 1970, 9, 1238-1243.	1.9	202
10	Metal ion coordinating properties of pyrimidine-nucleoside 5'-monophosphates (CMP, UMP, TMP) and of simple phosphate monoesters, including D-ribose 5'-monophosphate. Establishment of relations between complex stability and phosphate basicity. Inorganic Chemistry, 1988, 27, 1447-1453.	1.9	202
11	Ternary complexes in solution. 35. Intramolecular hydrophobic ligand-ligand interactions in mixed ligand complexes containing an aliphatic amino acid. Journal of the American Chemical Society, 1980, 102, 2998-3008.	6.6	191
12	Comments on potentiometric pH titrations and the relationship between pH-meter reading and hydrogen ion concentration. Analytica Chimica Acta, 1991, 255, 63-72.	2.6	173
13	Self-association and protonation of adenosine 5'-monophosphate in comparison with its 2'- and 3'-analogues and tubercidin 5'-monophosphate (7-deaza-AMP). FEBS Journal, 1987, 163, 353-363.	0.2	155
14	Isomeric equilibria in complexes of adenosine 5'-triphosphate with divalent metal ions. Solution structures of M(ATP)2- complexes. FEBS Journal, 1987, 165, 65-72.	0.2	144
15	Comparison of the metal ion coordinating properties of tubercidin 5'-monophosphate (7-deaza-AMP) with those of adenosine 5'-monophosphate (AMP) and 1,N6-ethenoadenosine 5'-monophosphate (.epsilon.-AMP). Definite evidence for metal ion-base-backbinding to N-7 and extent of macrochelate formation in M(AMP) and M(.epsilon.-AMP). Journal of the American Chemical Society, 1988, 110, 6857-6865.	6.6	142
16	Metal Ion/Buffer Interactions. Stability of Binary and Ternary Complexes Containing 2-Amino-2(hydroxymethyl)-1,3-propanediol (Tris) and Adenosine 5'-Triphosphate (ATP). FEBS Journal, 1979, 94, 523-530.	0.2	138
17	Ternary complexes in solution. 27. Biological implications from the stability of ternary complexes in solution. Mixed-ligand complexes with manganese(II) and other 3d ions. Journal of the American Chemical Society, 1977, 99, 4489-4496.	6.6	136
18	Comparison of the stabilities of monomeric metal ion complexes formed with adenosine 5'-triphosphate (ATP) and pyrimidine-nucleoside 5'-triphosphate (CTP, UTP, TTP) and evaluation of the isomeric equilibria in the complexes of ATP and CTP. Inorganic Chemistry, 1987, 26, 2149-2157.	1.9	134

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19	Mechanistic aspects of the metal ion promoted hydrolysis of nucleoside 5'-triphosphates (NTPs). Coordination Chemistry Reviews, 1990, 100, 453-539.	9.5	118
20	Stabilities and Structures of Metal Ion Complexes of Adenosine 5â€˜-O-Thiomonophosphate (AMPS2-) in Comparison with Those of Its Parent Nucleotide (AMP2-) in Aqueous Solution. Journal of the American Chemical Society, 1997, 119, 744-755.	6.6	116
21	Effects of (N7)-Coordinated Nickel(II), Copper(II), or Platinum(II) on the Acid-Base Properties of Guanine Derivatives and Other Related Purines[â‰]. Chemistry - A European Journal, 1999, 5, 2374-2387.	1.7	116
22	Ternary complexes in solution. 42. Metal ion promoted hydrophobic interactions between nucleotides and amino acids. Mixed-ligand adeonsine 5'-triphosphate/metal ion(II)/L-leucinate systems and related ternary complexes. Inorganic Chemistry, 1983, 22, 925-934.	1.9	113
23	Quantification of Intramolecular Ligand Equilibria in Metal-Ion Complexes. Comments on Inorganic Chemistry, 1988, 6, 285-314.	3.0	108
24	Ternary complexes in solution. XXIV. Metal ion bridging of stacked purine-indole adducts. The mixed-ligand complexes of adenosine 5'-triphosphate, tryptophan, and manganese(II), copper(II), or zinc(II). Journal of the American Chemical Society, 1976, 98, 730-739.	6.6	100
25	Ternary complexes in solution. 28. Enhanced stability of ternary metal ion/adenosine 5'-triphosphate complexes. Cooperative effects caused by stacking interactions in complexes containing adenosine triphosphate, phenanthroline, and magnesium, calcium, or zinc ions. Journal of the American Chemical Society, 1978, 100, 1564-1570.	6.6	99
26	Hydrolysis of nucleoside phosphates. 8. General considerations of transphosphorylations: mechanism of the metal ion facilitated dephosphorylation of nucleoside 5'-triphosphates including promotion of ATP dephosphorylation by addition of adenosine 5'-monophosphate. Journal of the American Chemical Society, 1984, 106, 7935-7946.	6.6	99
27	Enhanced stability of ternary complexes in solution through the participation of heteroaromatic N bases. Comparison of the coordination tendency of pyridine, imidazole, ammonia, acetate, and hydrogen phosphate toward metal ion nitrilotriacetate complexes. Inorganic Chemistry, 1981, 20, 2586-2590.	1.9	98
28	The colourless â€˜chameleonâ€™ or the peculiar properties of Zn2+in complexes in solution. Quantification of equilibria involving a change of the coordination number of the metal ion. Chemical Society Reviews, 1994, 23, 83-91.	18.7	98
29	A proton nuclear magnetic resonance study of purine and pyrimidine nucleoside 5'-diphosphates. Extent of macrochelate formation in monomeric metal ion complexes and promotion of self-stacking by metal ions. Journal of the American Chemical Society, 1983, 105, 5891-5900.	6.6	97
30	An estimation of the equivalent solution dielectric constant in the active-site cavity of metalloenzymes. Dependence of carboxylate - metal-ion complex stabilities on the polarity of mixed aqueous/organic solvents. FEBS Journal, 1985, 152, 187-193.	0.2	95
31	Ternary complexes in solution. XVIII. Stability enhancement of nucleotide-containing charge-transfer adducts through the formation of a metal ion bridge. Journal of the American Chemical Society, 1974, 96, 2750-2756.	6.6	90
32	Metal-ion-coordinating properties of various phosphonate derivatives, including 9â^'[2â^'(phosphonylmethoxy)ethyl]adenine (PMEA) - an adenosine monophosphate (AMP) analogue with antiviral properties. Helvetica Chimica Acta, 1992, 75, 2634-2656.	1.0	90
33	Ternary complexes in solution. 34. Discriminating and stability increasing properties of the imidazole moiety in mixed-ligand complexes. Inorganic Chemistry, 1980, 19, 1411-1413.	1.9	88
34	A Proton Nuclear-Magnetic-Resonance Study of Self-Stacking in Purine and Pyrimidine Nucleosides and Nucleotides. FEBS Journal, 1978, 88, 149-154.	0.2	86
35	Stabilities and Isomeric Equilibria in Aqueous Solution of Monomeric Metal Ion Complexes of Adenosine 5â€²-Diphosphate (ADP3) in Comparison with Those of Adenosine 5â€²-Monophosphate (AMP2). Chemistry - A European Journal, 2003, 9, 881-892.	1.7	85
36	Metal ions and hydrogen peroxide. XX. On the kinetics and mechanism of the decomposition of hydrogen peroxide, catalyzed by the Cu2+-2,2'-bipyridyl complex. Journal of the American Chemical Society, 1969, 91, 1061-1064.	6.6	79

#	Article	IF	Citations
37	Comparison of the acidâ€"base properties of purine derivatives in aqueous solution. Determination of intrinsic proton affinities of various basic sitesElectronic supplementary information (ESI) available:		

#	Article	IF	Citations
55	Metal ion-coordinating properties of imidazole and derivatives in aqueous solution: interrelation between complex stability and ligand basicity. Inorganica Chimica Acta, 1998, 280, 50-56.	1.2	66
56	Metal Ion/Buffer Interactions. FEBS Journal, 1980, 107, 455-466.	0.2	66
57	Stability and Structure of Binary and Ternary Metal Ion Complexes of Orotidinate 5â€²-Monophosphate (OMP3-) in Aqueous Solution. Journal of Coordination Chemistry, 1991, 23, 137-154.	0.8	64
58	Ternary complexes of solution. 48. Influence of organic solvents on intramolecular aromatic-ring stacks in aqueous mixed-ligand metal ion complexes. Opposing solvent effects. Journal of the American Chemical Society, 1985, 107, 5137-5148.	6.6	63
59	Acidâˆ'Base and Metal Ion-Coordinating Properties of Pyrimidine-Nucleoside 5â€˜-Diphosphates (CDP, UDP,) Tj ETQq1 1 0.784314 rgBT / Stability and Diphosphate Basicity. Inorganic Chemistry, 1999, 38, 439-448.	1.9	63
60	Quantification of isomeric equilibria for metal ion complexes formed in solution by phosphate or phosphonate ligands with a weakly coordinating second site. Coordination Chemistry Reviews, 2000, 200-202, 563-594.	9.5	63
61	Adenosine and Inosine 5'-triphosphates. Protonation, Metal-Ion Coordination, and Charge-Tranfer Interaction between Two Ligands within Ternary Complexes. FEBS Journal, 1974, 41, 209-216.	0.2	60
62	Stability and Structure of Metal Ion Complexes Formed in Solution with Acetyl Phosphate and Acetonylphosphonate:Â Quantification of Isomeric Equilibria. Journal of the American Chemical Society, 1999, 121, 6248-6257.	6.6	59
63	Metal ion complexes with biotin and biotin derivatives. Participation of sulfur in the orientation of divalent cations. Biochemistry, 1969, 8, 2687-2695.	1.2	58
64	Ternary complexes in solution. 41. Ternary complexes in solution as models for enzyme-metal ion-substrate complexes. Comparison of the coordination tendency of imidazole and ammonia toward the binary complexes of Mn(II), Co(II), Ni(II), Cu(II), Zn(II), or Cd(II) and uridine 5'-triphosphate or adenosine 5'-triphosphate. Journal of the American Chemical Society, 1982, 104, 4100-4105.	6.6	55
65	Have adenosine 5â€²-triphosphate ATP4âˆ' and related purine-nucleotides played a role in early evolution? ATP, its own â€˜enzymeâ€™ in metal ion facilitated hydrolysis!. Inorganica Chimica Acta, 1992, 198-200, 1-11.	1.2	55
66	Metal ion/buffer interactions. Stability of alkali and alkaline earth ion complexes with triethanolamine (tea), 2-amino-2(hydroxymethyl)-1,3-propanediol (tris)and 2-[bis(2-hydroxyethyl)-amino] 2(hydroxymethyl)-1,3-propanediol (Bistris) in aqueous and mixed solvents. Inorganica Chimica Acta, 1982, 66, 147-155.	1.2	54
67	On the Dichotomy of Metal Ion Binding in Adenosine Complexes. Comments on Inorganic Chemistry, 1992, 13, 35-59.	3.0	54
68	Ternary Complexes in Solution, XII. Models for Biological Mixed-Ligand Complexes: 2,2â€²-Bipyridyl-Cu²⁺-Oligoglycine Systems. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1972, 27, 353-364.	0.3	53
69	Self-association of nucleotides. Biological Trace Element Research, 1989, 21, 49-59.	1.9	53
70	Unusual hydrogen bonding patterns of N7metallated, N1deprotonated guanine nucleobases: acidity constants of cis-[Pt(NH3)2(Hegua)2]2+and crystal structures of cis-[Pt(NH3)2(egua)2]Â·4H2O and cis-[Pt(NH3)2(egua)2]Â· HeguaÂ·7H2O (Hegua = 9-ethylguanine). Journal of the Chemical Society Dalton Transactions, 1995, , 3767-3775.	1.1	53
71	Complex Formation of the Antiviral 9â€[2â€(Phosphonomethoxy)Ethyl]Adenine (PMEA) and of Its N 1, N 3, and N 7 Deaza Derivatives with Copper(II) in Aqueous Solution. Chemistry - A European Journal, 1997, 3, 1526-1536.	1.7	53
72	Acidâˆ'Base and Metal Ion Binding Properties of Guanylyl(3â€˜â†'5â€˜)guanosine (GpG-) and 2â€˜-Deoxyguanylyl(3â€˜â†'5â€˜)-2â€˜-deoxyguanosine [d(GpG)-] in Aqueous Solution. Inorganic Chemistry, 2003, 42, 3475-3482.	1.9	53

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73	Probing the Metal-Ion-Binding Strength of the Hydroxyl Group. Chemical Reviews, 2011, 111, 4964-5003.	23.0	53
74	Comparison of the stabilities of binary and ternary complexes of divalent metal ions with the 5â€²-triphosphates of adenosine, inosine, guanosine, cytidine, uridine and thymidine. Journal of Inorganic and Nuclear Chemistry, 1977, 39, 1903-1911.	0.5	52
75	Evaluation of the metal-ion-coordinating differences between the 2'-, 3'- and 5'-monophosphates of adenosine. FEBS Journal, 1989, 179, 451-458.	0.2	52
76	Stabilities and Isomeric Equilibria in Solutions of Monomeric Metal-Ion Complexes of Guanosine 5â€²-Triphosphate (GTP4âˆ') and Inosine 5â€²-Triphosphate (ITP4âˆ') in Comparison with Those of Adenosine 5â€²-Triphosphate (ATP4âˆ'). Chemistry - A European Journal, 2001, 7, 3729-3737.	1.7	52
77	Metal Ion-Binding Properties of (1H-Benzimidazol-2-yl-methyl)phosphonate (Bimp2-) in Aqueous Solution.âŠ¥Isomeric Equilibria, Extent of Chelation, and a New Quantification Method for the Chelate Effect. Inorganic Chemistry, 2004, 43, 1311-1322.	1.9	52
78	Ternary complexes in solution. 31. Effect of the varying .pi.-accepting properties of several bipyridyl-like ligands on the stability of mixed-ligand complexes also containing pyrocatecholate and cobalt(II), nickel(II), copper(II), or zinc(II). Inorganic Chemistry, 1979, 18, 425-428.	1.9	51
79	Influence of the protonation degree on the self-association properties of adenosine 5'-triphosphate (ATP). FEBS Journal, 1988, 170, 617-626.	0.2	51
80	Stability and structure of xanthosine-metal ion complexes in aqueous solution, together with intramolecular adenosine-metal ion equilibria. Inorganic Chemistry, 1989, 28, 1480-1489.	1.9	50
81	Ternary complexes in solution. 50. Dependence of intramolecular hydrophobic ligand-ligand interactions on ligand structure, geometry of the coordination sphere of the metal ion, and solvent composition. Opposing solvent effects. Inorganic Chemistry, 1988, 27, 2877-2887.	1.9	49
82	Metal-ion-governed molecular recognition: extent of intramolecular stack formation in mixed-ligand-copper(II) complexes containing a heteroaromatic N base and an adenosine monophosphate (2'AMP, 3'AMP, or 5'AMP). A structuring effect of the metal-ion bridge. FEBS Journal, 1990, 187, 387-393.	0.2	49
83	Influence of decreasing solvent polarity (dioxaneâ€"water mixtures) on the stability and structure of binary and ternary complexes of adenosine 5â€²-triphosphate and uridine 5â€²-triphosphate. Journal of the Chemical Society Dalton Transactions, 1985, , 2291-2303.	1.1	48
84	Stability and structure for monomeric cadmium(II) and zinc(II) complexes of the 5'-triphosphates of adenosine and cytidine in aqueous solution: isomeric equilibria in binary and ternary complexes. Inorganic Chemistry, 1984, 23, 1933-1938.	1.9	46
85	The Imidazole Group and Its Stacking Properties in Mixed Ligand Metal Ion Complexes. Comments on Inorganic Chemistry, 1990, 9, 305-330.	3.0	46
86	Metal Ion-Binding Properties of 1-Methyl-4-aminobenzimidazole (=9-Methyl-1,3-dideazaadenine) and 1,4-Dimethylbenzimidazole (=6,9-Dimethyl-1,3-dideazapurine). Quantification of the Steric Effect of the 6-Amino Group on Metal Ion Binding at the N7 Site of the Adenine Residue. Inorganic Chemistry, 2001, 40, 2500-2508.	1.9	46
87	Lead(II)-Binding Properties of the 5â€˜-Monophosphates of Adenosine (AMP2-), Inosine (IMP2-), and Guanosine (GMP2-) in Aqueous Solution. Evidence for Nucleobaseâˆ'Lead(II) Interactions. Inorganic Chemistry, 2000, 39, 5985-5993.	1.9	45
88	Comparison of the Metal-Ion-Promoted Dephosphorylation of the 5'-Triphosphates of Adenosine, Inosine, Guanosine and Cytidine by Mn2+, Ni2+ and Zn2+ in Binary and Ternary Complexes. FEBS Journal, 1976, 63, 569-581.	0.2	43
89	Perturbation of the NH2 pKa Value of Adenine in Platinum(II) Complexes: Distinct Stereochemical Internucleobase Effects. Chemistry - A European Journal, 2004, 10, 1046-1057.	1.7	43
90	Self-association of adenosine 5â€²-monophosphate (5â€²-AMP) as a function of pH and in comparison with adenosine, 2â€²-AMP and 3â€²-AMP. Biophysical Chemistry, 1987, 27, 119-130.	1.5	41

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91	Acidâ€Base Properties of Adenosine 5â€²â€Oâ€Thiomonophosphate in Aqueous Solution. Chemistry - A European Journal, 1997, 3, 29-33.	1.7	40
92	Ambivalent metal ion binding properties of cytidine in aqueous solution. Inorganic Chemistry, 1992, 31, 5588-5596.	1.9	39
93	Two Metal Ions Coordinated to a Purine Residue Tolerate Each Other Well. Angewandte Chemie - International Edition, 2004, 43, 3793-3795.	7.2	38
94	Acidâ˘'Base and Metal-Ion-Binding Properties of 9-[2-(2-Phosphonoethoxy)ethyl]adenine (PEEA), a Relative of the Antiviral Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA). An Exercise on the Quantification of Isomeric Complex Equilibria in Solution. Inorganic Chemistry, 2005, 44, 5104-5117.	1.9	38
95	Metalâ€"Nucleotide Interactions. ACS Symposium Series, 1989, , 159-204.	0.5	37
96	Ternary complexes in solution. Part 49. Intramolecular equilibria in metal ion complexes of adenosine 5'-triphosphate (ATP4-): coordination of ammonia or imidazole to M(ATP)2- releases N-7 from the metal ion coordination sphere. Inorganic Chemistry, 1987, 26, 638-643.	1.9	36
97	Comparison of the self-association properties of the 5'-triphosphates of inosine (ITP), guanosine (GTP), and adenosine (ATP). Further evidence for ionic interactions in the highly stable dimeric [H2(ATP)]4-2 stack. FEBS Journal, 1990, 191, 721-735.	0.2	36
98	Solution properties of antiviral adenine-nucleotide analogues. The acidâ€"base properties of 9-[2-(phosphonomethoxy)ethyl]adenine (PMEA)â€Šâ€ and of its N1, N3 and N7 deaza derivatives in aqueous solution. Journal of the Chemical Society Perkin Transactions II, 1997, , 2353-2364.	0.9	36
99	Solvent effects on intramolecular hydrophobic ligandligand interactions in binary and ternary complexes. Inorganica Chimica Acta, 1985, 100, 151-164.	1.2	34
100	Metal-Ion-Coordinating Properties of a Viral Inhibitor, a pyrophosphate analogue, and a herbicide metabolite, a glycinate analogue: The solution properties of the potentially five-membered chelates derived from phosphonoformic acid and (aminomethyl)phosphonic acid. Helvetica Chimica Acta, 1994, 77, 1738-1756.	1.0	34
101	Acid-Base and Metal-Ion-Binding Properties of the Quaternary [cis-(NH3)2Pt(dGuo)(dGMP)] Complex Formed Betweencis-Diammineplatinum(II), 2â€²-Deoxyguanosine (dGuo), and 2â€²-Deoxyguanosine 5â€²-Monophosphate (dGMP2â˘') in Aqueous Solution. Chemistry - A European Journal, 1998, 4, 1053-1060.	1.7	34
102	Extent of intramolecular stacking interactions in the mixed-ligand complexes formed in aqueous solution by copper(II), 2,2â€²-bipyridine or 1,10-phenanthroline and 2â€²-deoxyguanosine 5â€²-monophosphateâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 357-366.	1.1	34
103	Evaluation of intramolecular equilibria in complexes formed between substituted imidazole ligands and nickel(II), copper(II) or zinc(II). Journal of Inorganic Biochemistry, 2000, 78, 129-137.	1.5	33
104	Binary and ternary complexes of metal ions, nucleoside 5â€²-monophosphates, and amino acids. Journal of Inorganic and Nuclear Chemistry, 1980, 42, 785-792.	0.5	32
105	On the metal ion binding properties of orotidine. Inorganica Chimica Acta, 1990, 178, 249-259.	1.2	31
106	Metal ion binding properties of dihydroxyacetone phosphate and glycerol 1-phosphate. Journal of the American Chemical Society, 1992, 114, 7780-7785.	6.6	30
107	Acid-base and metal ion-binding properties of 2â€²-deoxycytidine 5â€²-monophosphate (dCMP2â˘') alone and coordinated to cis-diammine-platinum(II). Formation of mixed metal ion nucleotide complexes. Inorganica Chimica Acta, 1995, 235, 99-109.	1.2	30
108	Aspects of the co-ordination chemistry of the antiviral nucleotide analogue, 9-[2-(phosphonomethoxy)ethyl]-2,6-diaminopurine (PMEDAP). Journal of the Chemical Society Dalton Transactions, 1999, , 3661-3671.	1.1	30

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109	Metal ion-binding properties of 9-(4-phosphonobutyl)adenine (dPMEA), a sister compound of the antiviral nucleotide analogue 9-[2-(phosphonomethoxy)ethyl]adenine (PMEA), and quantification of the equilibria involving four Cu(PMEA) isomers. Dalton Transactions RSC, 2000, , 2077-2084.	2.3	30
110	Complex Formation of Divalent Metal Ions with Uridine 5â€²-O-Thiomonophosphate or Methyl Thiophosphate: Comparison of Complex Stabilities with Those of the Parent Phosphate Ligands. ChemBioChem, 2003, 4, 593-602.	1.3	29
111	A quantitative appraisal of the ambivalent metal ion binding properties of cytidine in aqueous solution and an estimation of the antiâ€“syn energy barrier of cytidine derivatives. Journal of Biological Inorganic Chemistry, 2004, 9, 365-373.	1.1	29
112	Acidâ€“base properties of the nucleic-acid model 2â€²-deoxyguanylyl(5â€²â†’3â€²)-2â€²-deoxy-5â€²-guanylate, d(pGpG)3â€“, and of related guanine derivatives. Organic and Biomolecular Chemistry, 2006, 4, 1085.	1.5	29
113	Xanthosine 5â€²-monophosphate (XMP). Acidâ€“base and metal ion-binding properties of a chameleon-like nucleotide. Chemical Society Reviews, 2009, 38, 2465.	18.7	29
114	Ternary complexes in solution (part 551) with phosphonates as ligands. Various intramolecular equilibria in mixed-ligand complexes containing the antiviral 9-(2-phosphonomethoxyethyl)adenine, an adenosine monophosphate analogue. Journal of the Chemical Society Dalton Transactions, 1993, , 1537-1546.	1.1	28
115	The self-association of flavin mononucleotide (FMN2â^') as determined by 1H NMR shift measurements. Biophysical Chemistry, 1997, 67, 27-34.	1.5	27
116	Intramolecular stacking interactions in mixed ligand complexes formed by copper(II), 2,2â€²-bipyridine or 1,10-phenanthroline, and monoprotonated or deprotonated adenosine 5â€²-diphosphate (ADP3â^'). Evaluation of isomeric equilibria. Inorganica Chimica Acta, 2000, 300-302, 487-498.	1.2	27
117	Ternary complexes in solution. Part 51. Intramolecular hydrophobic and stacking interactions in mixed ligand complexes containing Cu(II), 2,2â€²-bipyridyl or 1,10-phenanthroline, and a simple phosphate monoester, D-ribose 5â€²-monophosphate or a nucleoside 5â€²-monophosphate (CMP, UMP, TMP, TuMP) with a non-coordinating base residue. Inorganica Chimica Acta, 1989, 159, 243-252.	1.2	26
118	Quantification of successive intramolecular equilibria in binary metal ion complexes of N,N-bis(2-hydroxyethyl)glycinate (Bicinate). A case study. Coordination Chemistry Reviews, 1993, 122, 227-242.	9.5	26
119	Metal Ion-Binding Properties of the Nucleotide Analogue 1-[2-(Phosphonomethoxy)ethyl]cytosine (PMEC) in Aqueous Solution. Collection of Czechoslovak Chemical Communications, 1999, 64, 613-632.	1.0	26
120	Stability constants of metal ion complexes formed with N3-deprotonated uridine in aqueous solution. Inorganic Chemistry Communication, 2003, 6, 90-93.	1.8	26
121	Influence of Decreasing Solvent Polarity (1,4-Dioxane/Water Mixtures) on the Acid-Base and Copper(II)-Binding Properties of Guanosine 5?-Diphosphate. Helvetica Chimica Acta, 2005, 88, 406-425.	1.0	26
122	Extent of metal ionâ€“sulfur binding in complexes of thiouracil nucleosides and nucleotides in aqueous solution. Journal of Inorganic Biochemistry, 2007, 101, 727-735.	1.5	26
123	Solvent dependent metal ion-nucleic base recognition. Extent of macrochelate formation in the binary copper(II) complexes of adenosine 5'-monophosphate (AMP) and adenosine 5'-triphosphate (ATP) in water-dioxane mixtures. Inorganic Chemistry, 1990, 29, 3631-3632.	1.9	25
124	Ternary complexes in solution. Bridging of the stacked adduct between tryptophan and adenosine 5â€²-triphosphate by zinc(II). FEBS Letters, 1974, 47, 122-124.	1.3	24
125	Metal-Ion-Promoted Dephosphorylation of the 5' -Triphosphates of Uridine and Thymidine, and a Comparison with the Reactivity in the Corresponding Cytidine and Adenosine Nucleotide Systems. FEBS Journal, 1983, 132, 569-577.	0.2	24
126	Hydrolysis of nucleoside phosphates. Part 10. Comparison of the metal ion facilitated hydrolysis for the 5'-triphosphates of 1,N6-ethenoadenosine (.epsilon.-ATP), adenosine (ATP), and cytidine (CTP). Dephosphorylation of .epsilon.-ATP proceeding with zinc(2+) and copper(2+) via structurally different species: evidence for a long-sought, monomeric, back-bound complex with copper(2+)/.epsilon.-ATP. Inorganic Chemistry, 1986, 25, 2628-2634.	1.9	24

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127	Extent of the Acidification by N7-Coordinated cis-Diammine-Platinum(II) on the Acidic Sites of Guanine Derivatives. Metal-Based Drugs, 1996, 3, 131-141.	3.8	24
128	Metal Ion-Coordinating Properties of 2â€˜-Deoxyguanosine 5â€˜-Monophosphate (dGMP2-)1in Aqueous Solution. Quantification of Macrochelate Formation. Inorganic Chemistry, 1998, 37, 2066-2069.	1.9	24
129	Metal-Ion-Coordinating Properties of the Dinucleotide 2â€²-Deoxyguanylyl(5â€²â†'3â€²)-2â€²-deoxy-5â€²-guanylate (d(pGpG)3â^'): Isomeric Equilibria Including Macrochelated Complexes Relevant for Nucleic Acids. Chemistry - A European Journal, 2007, 13, 1804-1814.	1.7	24
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