

# Tamás Jakusch

## List of Publications by Year in descending order

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61  
papers

2,180  
citations

172386

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223716

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61  
docs citations

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times ranked

2035  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of copper(II) specific pyridine containing ligands: Potential metallophores for Alzheimer's disease therapy. <i>Journal of Inorganic Biochemistry</i> , 2022, 228, 111692.	1.5	2
2	Speciation of Metal Complexes of Medicinal Interest: Relationship between Solution Equilibria and Pharmaceutical Properties. <i>Current Medicinal Chemistry</i> , 2019, 26, 580-606.	1.2	14
3	4-Hydroxy-3,5-pyridinedicarboxylic Acids: Synthesis, Complexation Properties Towards Fe(III), Al(III), Cu(II), Zn(II), Human Serum Albumin, and Cellular Toxicity. <i>Journal of Solution Chemistry</i> , 2018, 47, 92-106.	0.6	2
4	Complexes of pyridoxal thiosemicarbazones formed with vanadium(IV/V) and copper(II): Solution equilibrium and structure. <i>Inorganica Chimica Acta</i> , 2018, 472, 243-253.	1.2	17
5	Development of the application of speciation in chemistry. <i>Coordination Chemistry Reviews</i> , 2017, 352, 401-423.	9.5	48
6	In vitro study of the antidiabetic behavior of vanadium compounds. <i>Coordination Chemistry Reviews</i> , 2017, 351, 118-126.	9.5	76
7	Binding of Oxovanadium(IV) Complexes to Blood Serum Albumins. <i>Journal of the Mexican Chemical Society</i> , 2017, 57, .	0.2	2
8	Vanadium(IV/V) complexes of Triapine and related thiosemicarbazones: Synthesis, solution equilibrium and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 62-73.	1.5	20
9	Mono- or bis-ligand complexes are better for chelation therapy? Theoretical approaches. , 2014, , .		1
10	Hydroxypyridinecarboxylic acid derivatives influencing metal ion levels in the brain: Equilibrium complexation studies with Cu(II) and Zn(II). <i>Polyhedron</i> , 2014, 67, 481-489.	1.0	4
11	Solution speciation of potential anticancer metal complexes of salicylaldehyde semicarbazone and its bromo derivative. <i>Polyhedron</i> , 2014, 67, 242-252.	1.0	33
12	Vanadate complexes of 3-hydroxy-1,2-dimethyl-pyridinone: Speciation, structure and redox properties. <i>Inorganica Chimica Acta</i> , 2014, 420, 92-102.	1.2	19
13	Solution equilibria of anticancer ruthenium(II)-(1-6-p-cymene)-hydroxy(thio)pyridone complexes: Impact of sulfur vs. oxygen donor systems on the speciation and bioactivity. <i>Journal of Inorganic Biochemistry</i> , 2013, 127, 161-168.	1.5	24
14	Interaction of vanadium(IV) with human serum apo-transferrin. <i>Journal of Inorganic Biochemistry</i> , 2013, 121, 187-195.	1.5	72
15	A novel VIVO <sup>IV</sup> pyrimidinone complex: synthesis, solution speciation and human serum protein binding. <i>Dalton Transactions</i> , 2013, 42, 11841.	1.6	38
16	Characterisation of Ternary Complex Formation Between [Ru <sup>III</sup> (edta)] <sup>-</sup> and Various Bidentate Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1640-1647.	0.6	1
17	[Ru(1-5-C5H5)(bipy)(PPh3)] <sup>+</sup> , a promising large spectrum antitumor agent: Cytotoxic activity and interaction with human serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 261-269.	1.5	72
18	Molybdenum(VI) Coordination Chemistry of the N,N-Disubstituted Bis(hydroxylamido)-1,3,5-triazine Ligand, H <sub>2</sub> bihyat. Water-Assisted Activation of the MoVI=O Bond and Reversible Dimerization of cis-[MoVIO <sub>2</sub> (bihyat)] to [MoVI <sub>2</sub> O <sub>4</sub> (bihyat) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ]. <i>Inorganic Chemistry</i> , 2012, 51, 13138-13147.	1.9	14

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19	Evaluation of the binding of oxovanadium(IV) to human serum albumin. Dalton Transactions, 2012, 41, 6477.	1.6	71
20	Clarifying the Mechanism of Cation Exchange in Ca(II)[15-MC<sub>5</sub>Cu(II)Ligand] Complexes. Inorganic Chemistry, 2012, 51, 11533-11540.	1.9	26
21	pH-Specific Hydrothermal Assembly of Binary and Ternary Pb(II)-(O,N-Carboxylic Acid) Metal Organic Framework Compounds: Correlation of Aqueous Solution Speciation with Variable Dimensionality Solid-State Lattice Architecture and Spectroscopic Signatures. Inorganic Chemistry, 2012, 51, 9282-9296.	1.9	31
22	Application of modeling calculations in the description of metal ion distribution of bioactive compounds in biological systems. Coordination Chemistry Reviews, 2012, 256, 125-132.	9.5	18
23	Interactions of pyridinecarboxylic acid chelators with brain metal ions: Cu(II), Zn(II), and Al(III). , 2012, , 199-210.		0
24	Interactions of pyridinecarboxylic acid chelators with brain metal ions: Cu(II), Zn(II), and Al(III). Monatshefte für Chemie, 2011, 142, 399-410.	0.9	7
25	The speciation of vanadium in human serum. Coordination Chemistry Reviews, 2011, 255, 2218-2226.	9.5	99
26	Vanadium(IV) and (V) Complexes of Reduced Schiff Bases Derived from Aromatic Hydroxyaldehydes and Tyrosine Derivatives. European Journal of Inorganic Chemistry, 2011, 2011, 694-708.	1.0	14
27	In depth investigation of the synthesis, structural, and spectroscopic characterization of a high pH binary Co(II)-N,N-bis(phosphonomethyl)glycine species. Association with aqueous speciation studies of binary Co(II)-(carboxy)phosphonate systems. Polyhedron, 2011, 30, 427-437.	1.0	9
28	Multinuclear NMR and molecular modelling investigations on the structure and equilibria of complexes that form in aqueous solutions of Ca <sup>2+</sup> and gluconate. Carbohydrate Research, 2010, 345, 1856-1864.	1.1	36
29	Metalloallixinate complexes with anti-diabetic and anti-metabolic syndrome activities. Metallomics, 2010, 2, 670.	1.0	46
30	Tris-(hydroxyamino)triazines: high-affinity chelating tridentate O,N,O-hydroxylamine ligand for the cis-VVO <sub>2</sub> <sup>+</sup> cation. Dalton Transactions, 2010, 39, 9032.	1.6	13
31	Vanadate complexes in serum: a speciation modeling study. Dalton Transactions, 2010, 39, 212-220.	1.6	33
32	The Correlation of <sup>113</sup> Cd NMR and <sup>111m</sup> Cd PAC Spectroscopies Provides a Powerful Approach for the Characterization of the Structure of Cd <sup>II</sup> -Substituted Zn <sup>II</sup> Proteins. Chemistry - A European Journal, 2009, 15, 3761-3772.	1.7	39
33	Comparative studies on the biospeciation of antidiabetic VO(IV) and Zn(II) complexes. Journal of Inorganic Biochemistry, 2009, 103, 527-535.	1.5	22
34	Synthetic, structural and solution speciation studies on binary Al(III)-(carboxy)phosphonate systems. Relevance to the neurotoxic potential of Al(III). Journal of Inorganic Biochemistry, 2009, 103, 1530-1541.	1.5	10
35	Biospeciation of various antidiabetic VIVO compounds in serum. Dalton Transactions, 2009, , 2428.	1.6	109
36	Biospeciation of antidiabetic VO(IV) complexes. Coordination Chemistry Reviews, 2008, 252, 1153-1162.	9.5	162

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37	Vanadium(V) Compounds with the Bis-(hydroxylamino)-1,3,5-triazine Ligand, H <sub>2</sub> bihyat: Synthetic, Structural, and Physical Studies of [V <sub>2</sub> (VO) <sub>3</sub> (bihyat) <sub>2</sub> ] and of the Enhanced Hydrolytic Stability Species <i>cis</i> -[V <sub>2</sub> (VO) <sub>2</sub> (bihyat)] <sup>+</sup> . <i>Inorganic Chemistry</i> , 2008, 47, 11698-11710.	1.9	29
38	Biospeciation of Insulin-Mimetic VO(IV) Complexes. <i>ACS Symposium Series</i> , 2007, , 323-339.	0.5	9
39	Oral administration of a zinc complex improves type 2 diabetes and metabolic syndromes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 165-170.	1.0	83
40	Solution equilibrium characterization of insulin-mimetic Zn(II) complexes. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1521-1526.	1.5	34
41	Water-Soluble Sal <sup>2-</sup> en- and Reduced Sal <sup>2-</sup> en-Type Ligands: Study of Their Cu(II) and Ni(II) Complexes in the Solid State and in Solution. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2819-2830.	1.0	46
42	Vanadium (IV and V) Complexes of Reduced Schiff Bases Derived from the Reaction of Aromatic-Hydroxyaldehydes and Diamines Containing Carboxyl Groups. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3595-3606.	1.0	19
43	Binding Constant of V(IV) to Transferrin. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3607-3613.	1.0	35
44	Interactions of Insulin-Mimetic Vanadium Complexes with the Cell Constituents ATP and Glutathione. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3614-3621.	1.0	25
45	<sup>23</sup> V Insulin-Mimetic Vanadium-Containing Compounds. , 2005, , 143-158.		1
46	Oxovanadium(IV) complexes of salicyl-L-aspartic acid and salicylglycyl-L-aspartic acid. <i>Dalton Transactions</i> , 2005, , 3072.	1.6	8
47	Complexation Properties of Ethylenediaminetetramethylenephosphonic Acid (EDTMP) with Al(III) and V(IV). <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2524-2532.	1.0	18
48	N,N'-Ethylenebis(pyridoxylideneiminato) and N,N'-Ethylenebis(pyridoxylaminato): Synthesis, Characterization, Potentiometric, Spectroscopic, and DFT Studies of Their Vanadium(IV) and Vanadium(V) Complexes. <i>Chemistry - A European Journal</i> , 2004, 10, 2301-2317.	1.7	127
49	Vanadium(IV,V) complexes of D-saccharic and mucic acids in aqueous solution. <i>Dalton Transactions</i> , 2004, , 1882-1891.	1.6	13
50	Interaction of V(IV), V(V) and Cu(II) with a Peptide Analogue SalGly-L-Ala. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 2113-2122.	1.0	15
51	Interactions of VO(IV) with oligopeptides. <i>Coordination Chemistry Reviews</i> , 2003, 237, 123-133.	9.5	49
52	Vanadium(IV/V) speciation of pyridine-2,6-dicarboxylic acid and 4-hydroxy-pyridine-2,6-dicarboxylic acid complexes: potentiometry, EPR spectroscopy and comparison across oxidation states. <i>Journal of Inorganic Biochemistry</i> , 2003, 95, 1-13.	1.5	53
53	Chemical speciation of insulinomimetic VO(IV) complexes of pyridine-N-oxide derivatives: binary and ternary systems. <i>Journal of Inorganic Biochemistry</i> , 2003, 95, 69-76.	1.5	31
54	Correlations of Synthetic, Spectroscopic, Structural, and Speciation Studies in the Biologically Relevant Cobalt(II)-Citrate System: A Tale of the First Aqueous Dinuclear Cobalt(II)-Citrate Complex. <i>Inorganic Chemistry</i> , 2003, 42, 22-31.	1.9	98

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55	Oxovanadium(IV and V) and copper(II) complexes of N-salicyl-glycylglycine and N-salicyl-glycylglycylglycine. Dalton Transactions RSC, 2002, , 4440.	2.3	17
56	Thiolate-S as anchoring donor in the binary and ternary VO(IV) complexes of mercaptopropionylglycine. Inorganica Chimica Acta, 2002, 339, 119-128.	1.2	32
57	Oxovanadium(IV) complexes of N-D-gluconylamino acids. Dalton Transactions RSC, 2001, , 1053-1057.	2.3	7
58	Bis(acetylamido)oxovanadium(IV) complexes: solid state and solution studies. Dalton Transactions RSC, 2001, , 3337-3345.	2.3	37
59	Copper(II) and oxovanadium(IV) complexes of d-3-phosphoglyceric acid. Journal of Inorganic Biochemistry, 2001, 85, 245-251.	1.5	4
60	Solution speciation of bioactive Al(III) and VO(IV) complexes. Polyhedron, 2000, 19, 2389-2401.	1.0	33
61	Aqueous Chemistry of Ammonium (Dipicolinato)oxovanadate(V): The First Organic Vanadium(V) Insulin-Mimetic Compound. Inorganic Chemistry, 2000, 39, 4409-4416.	1.9	153