

# Pavel Vojtã-Åjek

## List of Publications by Year in descending order

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74  
papers

1,649  
citations

331259

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docs citations

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times ranked

1524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tridentate Schiff base coordinated trigonal bipyramidal / square pyramidal copper(II) complexes: Synthesis, crystal structure, DFT / TD-DFT calculation, catecholase activity and DNA binding. Journal of Molecular Structure, 2019, 1189, 94-101.	1.8	19
2	The cone-tetranitrocalix[4]arene tetraanion as an electrochemically generated ligand for heavier alkali metal cations. Chemical Communications, 2019, 55, 2817-2820.	2.2	5
3	DFT/TD-DFT calculation, photophysical properties, DNA/protein binding and catecholase activity of chelating ligand based trigonal bipyramidal copper(II) complexes. Journal of Molecular Structure, 2019, 1179, 558-567.	1.8	14
4	Investigation of interaction between tert.-butyl diamidophosphites and alkyl halides. Bulletin of the Karaganda University Chemistry Series, 2019, 93, 39-47.	0.2	0
5	The reaction of C-alkylation of eudesmanolide (±)-santonin. Bulletin of the Karaganda University Chemistry Series, 2019, 94, 14-18.	0.2	0
6	Protein binding, DFT/TDDFT calculation and catecholase activity of five coordinated distorted square pyramidal/trigonal bipyramidal Cu(II) complexes. Polyhedron, 2018, 149, 7-16.	1.0	16
7	1D, 2D, and 2D Parallel Interpenetrated Dicarboxylato Bridged Co(II) Metal Organic Frameworks: Synthesis, Crystal Structure, Fluorescence Sensing and Band Gap Calculation. ChemistrySelect, 2017, 2, 2634-2642.	0.7	12
8	Synthesis and study of new nitrogen-containing heterocycles based on glycoluril derivatives. Russian Journal of General Chemistry, 2015, 85, 88-91.	0.3	2
9	Unusual phosphorylation of 2-amino-4-phenylthiazole with phosphorous acid ester amides. Russian Journal of General Chemistry, 2014, 84, 2477-2479.	0.3	0
10	Electrochemical and Quantum Chemical Investigation of Tetranitrocalix[4]arenes: Molecules with Multiple Redox Centers. Journal of Organic Chemistry, 2013, 78, 10651-10656.	1.7	25
11	Crystallization and characterization of the compounds Gly-MSO <sub>4</sub> ·mH <sub>2</sub> O (M = Mg <sup>2+</sup> , Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> ), Tj ETQ <sub>1</sub> 1 0.7843 14 rgB	1.8	22
12	Tetramethyl(perfluoroalkyl)cyclopentadienyl rhodium(I) complexes with ethylene or diene ligands. Crystal structure of [(1.5-C <sub>5</sub> Me <sub>4</sub> C <sub>6</sub> F <sub>13</sub> )Rh(CO) <sub>2</sub> ]. Journal of Organometallic Chemistry, 2010, 695, 375-381.	0.8	14
13	Diphosphinoazine rhodium(III) and iridium(III) octahedral complexes. Inorganica Chimica Acta, 2009, 362, 208-216.	1.2	5
14	Structural and spectral characterization of the compounds nGly-ZnCl <sub>2</sub> ·mH <sub>2</sub> O (n= 1,2,3; m= 0,2). Journal of Molecular Structure, 2009, 918, 55-63.	1.8	17
15	The quest for alternative routes to racemic and nonracemic azahelicene derivatives. Collection of Czechoslovak Chemical Communications, 2009, 74, 189-215.	1.0	17
16	Lanthanide Complexes of 2,2,2-trifluoroethyl 1,1,1-trifluoro-2-hydroxy-2-(hydroxy(phenyl)phosphoryl)methyl)ethane-1,4,7,10-tetraazacyclododecane-1,4,7-triyl)triacetic Acid: Structural Characterisation of Intermediates from the Proposed Complexation Mechanism in the Systems of Ln(III) >type Ligands. European Journal of Inorganic Chemistry, 2008, 2008, 3948-3956.	1.0	7
17	A Straightforward Route to Helically Chiral N-Heteroaromatic Compounds: Practical Synthesis of Racemic 1,14-Diaza[5]helicene and Optically Pure 1- and 2-Aza[6]helicenes. Angewandte Chemie - International Edition, 2008, 47, 3188-3191.	7.2	161
18	Square planar diphosphinoazine rhodium(I) amido carbonyl complexes with an unsymmetrical PNP <sup>2</sup> pincer-type coordination. Journal of Organometallic Chemistry, 2008, 693, 1997-2003.	0.8	5

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19	One example of useful disorder : Structure of Pr(III) complex of 1,4,7,10-tetraazacyclododecane-10-methyl-1,4,7-tris(methylenephosphinic) acid. <i>Journal of Molecular Structure</i> , 2007, 826, 82-88.	1.8	4
20	New receptors for anions in water: Synthesis, characterization, X-ray structures of new derivatives of 5,11,17,23-tetraamino-25,26,27,28-tetrapropylcalix[4]arene. <i>Journal of Molecular Structure</i> , 2007, 826, 48-63.	1.8	22
21	Symmetrically tetrasubstituted p-nitrocalix[4]arenes: Synthesis, spectra and crystal structures. <i>Journal of Molecular Structure</i> , 2007, 871, 33-41.	1.8	26
22	Synthesis, crystal, and molecular structure of coordination polymers constructed by self-assembly of NiN <sub>4</sub> cores with 2,2'-iminodibenzoate and nitroprusside ions. <i>Structural Chemistry</i> , 2007, 18, 157-164.	1.0	2
23	Diphosphinoazine Rhodium(I) and Iridium(I) Complexes. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 197-206.	1.0	1
24	Preparation and Structural Characterization of the Intermediate Complex [Er{H <sub>2</sub> C <sub>8</sub> H <sub>16</sub> N <sub>4</sub> (CH <sub>2</sub> COO) <sub>3</sub> (CH <sub>2</sub> (Ph)PO <sub>2</sub> )}(H <sub>2</sub> O) <sub>2</sub> ]2Cl <sub>2</sub> ·xH <sub>2</sub> O in the Reaction of Er <sup>3+</sup> and the dota-Type Ligand. an Interesting Example of Two Stereoforms of a Lanthanide Complex. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 264-278.	1.0	11
25	Lanthanide(III) Complexes of a Mono(methylphosphonate) Analogue of H <sub>4</sub> dota: The Influence of Protonation of the Phosphonate Moiety on the TSAP/SAP Isomer Ratio and the Water Exchange Rate. <i>Chemistry - A European Journal</i> , 2005, 11, 2373-2384.	1.7	110
26	Stereoselective Preparation of Precursors of $\beta$ -D-Glc-(1 $\rightarrow$ 3)-Disaccharides. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 1411-1428.	1.0	11
27	Crystal Structures of Lanthanide(III) Complexes with Cyclen Derivative Bearing Three Acetate and One Methylphosphonate Pendants. <i>Inorganic Chemistry</i> , 2005, 44, 5591-5599.	1.9	84
28	A short and efficient synthesis of $\beta$ -D-Glc-(1 $\rightarrow$ 3)-linked disaccharides containing deoxyhexopyranoses. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1033-1041.	1.8	11
29	Palladium(II) amido complexes with an unsymmetrical PNP <sup>2-</sup> pincer-type coordination and a new (E,E)-tetradentate diphosphinoazine coordination mode. <i>Inorganica Chimica Acta</i> , 2004, 357, 4165-4171.	1.2	9
30	Pyridine-2,6-dicarboxylate and perchlorate bridged hydrogen bonded 1D chains involving manganese(III)-cyclam moiety: synthesis, X-ray crystal structures and magnetic study. <i>Inorganica Chimica Acta</i> , 2004, 357, 25-32.	1.2	19
31	Slow Magnetic Relaxation in a Mixed-Valence Mn(II/III) Complex: $[\text{Mn}^{II}_2(\text{bispicen})_2(\frac{1}{4}\text{-Cl})_2\text{Mn}^{III}(\text{Cl}_4\text{Cat})_2\text{Mn}^{III}(\text{Cl}_4\text{Cat})_2(\text{H}_2\text{O})_2] \cdot n\text{H}_2\text{O}$ . <i>Inorganic Chemistry</i> , 2004, 43, 849-851.	1.9	37
32	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 765-771.	0.7	19
33	Structural characterization of a new manganese(III) "salen" complex [H <sub>2</sub> salen=N,N'-bis(salicylidene)ethane-1,2-diamine] and study of its electron transfer kinetics with hydroquinone and catechol. <i>Polyhedron</i> , 2003, 22, 1191-1198.	1.0	52
34	Complexes of divalent transition metal ions with bis(aminomethyl)phosphinic acid in aqueous solution and in the solid state. <i>Dalton Transactions</i> , 2003, , 3927-3938.	1.6	25
35	A Stereocontrolled Access to $\beta$ -D-Glc-(1 $\rightarrow$ 3)-Linked Disaccharides Containing 2-Deoxyhexopyranoses. <i>Synlett</i> , 2003, 2003, 0963-0966.	1.0	0
36	Synthesis, characterisation and extraction behaviour of calix[4]arene-based phosphonic acids. Electronic supplementary information (ESI) available: Tables S1-S3 and Figs. S1 and S2. See <a href="http://www.rsc.org/suppdata/p2/b1/b105489a/">http://www.rsc.org/suppdata/p2/b1/b105489a/</a> . <i>Perkin Transactions II RSC</i> , 2002, , 1370-1377.	1.1	26

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37	Synthesis, crystal structures and magnetic properties of 1D polymeric [Mn <sup>III</sup> (salen) <sub>3</sub> ] and [Mn <sup>III</sup> (salen)Ag(CN) <sub>2</sub> ] complexes. <i>New Journal of Chemistry</i> , 2002, 26, 1025-1028.	1.4	93
38	SYNTHESIS OF PHOSPHINIC ACID ANALOGUES OF GLYCYL-GLYCINE AND CRYSTAL STRUCTURE OF N-GLYCYL-AMINOMETHYL-(PHENYLPHOSPHINIC) ACID. <i>Synthetic Communications</i> , 2002, 32, 79-88.	1.1	5
39	Unusual cis/trans Isomerism in Octahedral Nickel(II) Complexes with 1,4,8,11-Tetraazacyclotetradecane-1,8-bis(methylphosphonic Acid) as a Ligand. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 363-381.	1.0	19
40	Synthesis of Rhodium Complexes with Novel Perfluoroalkyl Substituted Cyclopentadienyl Ligands. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 382-396.	1.0	21
41	Complexes of tetraazacycles bearing methylphosphinic/phosphonic acid pendant arms with copper(II), zinc(II) and lanthanides(III). A comparison with their acetic acid analogues. <i>Coordination Chemistry Reviews</i> , 2001, 216-217, 287-312.	9.5	228
42	Diphosphinoazines (Z,Z)-R <sub>2</sub> PCH <sub>2</sub> C(But)N...NN...C(But)CH <sub>2</sub> PR <sub>2</sub> with R groups of various sizes and complexes {[ (Z,Z)-R <sub>2</sub> PCH <sub>2</sub> C(But)N...NN...C(But)CH <sub>2</sub> PR <sub>2</sub> ]-[1-3-CH <sub>2</sub> C(CH <sub>3</sub> )CH <sub>2</sub> PdCl] <sub>2</sub> }. <i>Inorganica Chimica Acta</i> , 2001, 313, 77-86.		11
43	Synthesis, Crystal Structures, and Solution Properties of N-Methylene(phenyl)phosphinic Acid Derivatives of Cyclen and Cyclam. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 195-203.	1.0	39
44	Activation of a coordinated alkyne by electron transfer: crystal structures of [Ph <sub>2</sub> ]{C(CO <sub>2</sub> Me)CH...CH(CO <sub>2</sub> Me)} and [PPh <sub>2</sub> ]{C(CO <sub>2</sub> Me)CH...CH(CO <sub>2</sub> Me)}. <i>Journal of Organometallic Chemistry</i> , 2000, 598, 318-328.	0.8	10
45	Crystal Structures and Reactivity of 3a,5a,8a,10a-Tetraazaperhydropyrene Derivatives. An Alternative Approach to Selective Nitrogen Alkylation of 1,4,8,11-Tetraazacyclotetradecane (Cyclam). <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 243-266.	1.0	40
46	Bis(methylphosphonic Acid) Derivatives of 1,4,8,11-Tetraazacyclotetradecane (Cyclam). Synthesis, Crystal and Molecular Structures, and Solution Properties. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 1289-1316.	1.0	43
47	Derivative of cyclen with three methylene(phenyl)phosphinic acid pendant arms. Synthesis and crystal structures of its lanthanide complexes. <i>Dalton Transactions RSC</i> , 2000, , 141-148.	2.3	39
48	Synthesis and Structure of Noncoordinated Curtis Macrocycle as a Free Base and Dihydrobromide Dihydrate. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 73-88.	1.0	3
49	Synthesis, Structure and Solution Properties of Tetra-Azacycles with Pendant Methylene(Phenylphosphinic) Groups. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 147, 229-229.	0.8	0
50	Synthesis, crystal structures and NMR and luminescence spectra of lanthanide complexes of 1,4,7,10-tetraazacyclododecane with N-methylene(phenyl)phosphinic acid pendant arms. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3585-3592.	1.1	38
51	Synthesis, Crystal Structure and Complexing Properties of Phosphinic Analogues of Glycylglycine. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 147, 119-119.	0.8	0
52	REACTION OF COMPOUNDS WITH A H-P BOND WITH SCHIFF-BASES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 148, 79-95.	0.8	20
53	Selective Loss of BoLA Class I Determinants from the Lymphocyte Surface after Acid Treatment. <i>Zoonoses and Public Health</i> , 1998, 45, 25-29.	1.4	2
54	Crystal structures of (<i>S</i>)- and (<i>R</i>)-2,2'-bipyridine-3,3'-dicarboxylic acid 1,1'-dioxides and of their barium salts: absolute configuration and molecular distortion enforced by supramolecular self-assembly. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1997, 212, 226-233.	0.4	12

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55	Complexes of Mercury(II) with Tetraethyl 2,2'-Bipyridyl-4,4'-diphosphonate. Collection of Czechoslovak Chemical Communications, 1997, 62, 1710-1720.	1.0	3
56	Complexing properties of phosphinic analogues of glycine. Journal of the Chemical Society Dalton Transactions, 1996, , 2685-2691.	1.1	19
57	Crystal Structure and Infrared Absorption Spectra of Magnesium(II) Hydrogen Selenite Tetrahydrate, Mg(HSeO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O. Journal of Solid State Chemistry, 1996, 122, 338-342.	1.4	22
58	(3S,5S,1'S)-3-Benzyl-5-[1'-(tert-butoxycarbonylamino)-2'-phenylethyl]-4,5-dihydrofuran-2(3H)-one. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 3165-3167.	0.4	0
59	Complexes of Tris(N-piperidinomethyl)phosphine Oxide with Zinc and Cadmium. Collection of Czechoslovak Chemical Communications, 1996, 61, 1321-1334.	1.0	7
60	Preparation, resolution and absolute configuration of 2,2'-bipyridine-3,3'-dicarboxylic acid 1,1'-dioxide and its ester. Tetrahedron: Asymmetry, 1995, 6, 1279-1282.	1.8	21
61	Syntheses and crystal structures of cobalt(II) complexes with piperazine-1,4-diylbis(methylene)bis(phosphinic) acid. Polyhedron, 1995, 14, 3163-3166.	1.0	7
62	Complexing properties of phosphonodipeptides containing 1-aminoethylphosphonic acid. Journal of the Chemical Society Dalton Transactions, 1995, , 2611-2618.	1.1	8
63	Crystal Structure, Thermal Behavior, and Infrared Absorption Spectrum of Cobalt(II) Hydrogen Selenite Dihydrate Co(HSeO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O. Journal of Solid State Chemistry, 1994, 112, 237-242.	1.4	23
64	Effect of Coordination on the Structure of Tris(N,N-Dimethylaminomethyl)phosphine Oxide. Collection of Czechoslovak Chemical Communications, 1993, 58, 1354-1362.	1.0	4
65	Aminomethylenephosphinic acids and their complexing properties. Journal of the Chemical Society Dalton Transactions, 1992, , 939-944.	1.1	14
66	Changes in the standard Gibbs energies associated with the formation of double selenates (NH <sub>4</sub> ) <sub>2</sub> M(SeO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O (M = Mn, Co, Ni or Zn) and (NH <sub>4</sub> ) <sub>2</sub> Cd(SeO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O. Collection of Czechoslovak Chemical Communications, 1991, 56, 1636-1641.	1.0	0
67	The change in the standard Gibbs energy $\Delta G^\circ$ in the formation of double selenates K <sub>2</sub> MII(SCo <sub>4</sub> ) <sub>2</sub> ·x H <sub>2</sub> O (MII = Mn, Co, Ni, Cu, Zn; x = 6 or 2). Collection of Czechoslovak Chemical Communications, 1990, 55, 994-1001.	1.0	2
68	The change in the standard gibbs energy $\Delta G^\circ$ during the formation of the double selenates M <sub>2</sub> Mg(SeO <sub>4</sub> ) <sub>2</sub> ·6 H <sub>2</sub> O (m = K, NH <sub>4</sub> , Rb, Cs). Collection of Czechoslovak Chemical Communications, 1990, 55, 2669-2676.	1.0	0
69	Löslichkeitsuntersuchung in den Systemen $M^{2+}SeO_4^{2-} \cdot 4H_2O$ (M = Mg, Ni, Co, Zn) und $M^{2+}SeO_4^{2-} \cdot 2H_2O$ (M = Ni, Co, Zn). Z. anorg. allg. Chem. 1987, 541, 110-114.	1.0	14
70	Untersuchung in den Systemen $M^{2+}SeO_4^{2-} \cdot 2H_2O$ (M = Ni, Co, Zn) und $M^{2+}SeO_4^{2-} \cdot 4H_2O$ (M = Ni, Co, Zn). Z. anorg. allg. Chem. 1987, 541, 115-118.	1.0	0
71	Calculation of the solubility curves in ternary salt systems with compound formation. Electrochimica Acta, 1986, 31, 1609-1616.	2.6	0
72	Complexes of nitrilotrimethylphosphonic acid with cobalt, nickel, copper and zinc. Polyhedron, 1986, 5, 2063-2067.	1.0	15

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73	Löslichkeitsuntersuchung in den Systemen $K_2SeO_4 \text{--} CO_2 \text{--} H_2O$ und $K_2SeO_4 \text{--} Ni \text{--} H_2O$ bei 25°C. Zeitschrift für Chemie, 1985, 25, 414-415.	0.0	8
74	Untersuchung am System $Bi_2(HPO_3)_3 \text{--} H_3PO_3 \text{--} H_2O$ . Zeitschrift für Chemie, 1979, 19, 266-266.	0.0	2