## Wiktor Zierkiewicz

# List of Publications by Year in Descending Order

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1,843 38 91 23 h-index g-index citations papers 2,086 5.48 95 3.5 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
91	Iron (III) complex exhibiting efficient catechol oxidase activity: Experimental, kinetic and theoretical approach. <i>Journal of Molecular Structure</i> , <b>2022</b> , 1252, 131685	3.4	2
90	DFT Calculations and SEMEDX Analysis of Copper(II)-Azide Complexes; [Cu(en)2(N3)2] and [Cu(Tmen)(N3)2]2 (Tmen = N,N,N',N'-Tetramethylethylenediamine). <i>Russian Journal of Physical Chemistry B</i> , <b>2021</b> , 15, S42-S51	1.2	0
89	Experimental and theoretical evidence of attractive interactions between dianions: [PdCl]?[PdCl]. <i>Chemical Communications</i> , <b>2021</b> , 57, 13305-13308	5.8	1
88	Ability of Lewis Acids with Shallow EHoles to Engage in Chalcogen Bonds in Different Environments. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
87	Triel bonds within anionanion complexes. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25097-25106	3.6	1
86	Noncovalent Bonds through Sigma and Pi-Hole Located on the Same Molecule. Guiding Principles and Comparisons. <i>Molecules</i> , <b>2021</b> , 26,	4.8	9
85	Competition between Inter and Intramolecular Tetrel Bonds: Theoretical Studies Complemented by CSD Survey. <i>ChemPhysChem</i> , <b>2021</b> , 22, 924-934	3.2	2
84	Crystallographic and Theoretical Evidences of Anion???Anion Interaction. ChemPhysChem, 2021, 22, 818	8- <u>8</u> .21	10
83	Anion-Anion Interactions in Aerogen-Bonded Complexes. Influence of Solvent Environment. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
82	Experimental and Theoretical Studies of Dimers Stabilized by Two Chalcogen Bonds in the Presence of a N\(\mathbb{H}\)N Pnicogen Bond. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 657-668	2.8	7
81	Anion-anion and anion-neutral triel bonds. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 4818-4828	3.6	11
80	Anionanion (MX) dimers (M = Zn, Cd, Hg; X = Cl, Br, I) in different environments. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 13853-13861	3.6	6
79	Pnicogen Bonds Pairing Anionic Lewis Acid with Neutral and Anionic Bases. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 4998-5006	2.8	17
78	Synthesis, crystal structure, DFT calculations, molecular docking study and Hirshfeld surface analysis of alkoxido-bridged dinuclear iron(III) complex. <i>Research on Chemical Intermediates</i> , <b>2020</b> , 46, 4155-4171	2.8	6
77	How Many Pnicogen Bonds can be Formed to a Central Atom Simultaneously?. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 2046-2056	2.8	19
76	Competition between Intra and Intermolecular Triel Bonds. Complexes between Naphthalene Derivatives and Neutral or Anionic Lewis Bases. <i>Molecules</i> , <b>2020</b> , 25,	4.8	16
75	On the Stability of Interactions between Pairs of Anions - Complexes of MCl (M=Be, Mg, Ca, Sr, Ba) with Pyridine and CN. <i>ChemPhysChem</i> , <b>2020</b> , 21, 870-877	3.2	18

### (2019-2020)

74	Synthesis, characterization, DFT optimization and anticancer evaluation of phosphanegold(I) dithiocarbamates. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1218, 128486	3.4	7
73	Structures and energetics of clusters surrounding diatomic anions stabilized by hydrogen, halogen, and other noncovalent bonds. <i>Chemical Physics</i> , <b>2020</b> , 530, 110590	2.3	14
72	Coordination of anions by noncovalently bonded Ehole ligands. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 405, 213136	23.2	41
71	Noncovalent Bonds between Tetrel Atoms. <i>ChemPhysChem</i> , <b>2020</b> , 21, 1934-1944	3.2	15
7°	Anion???Anion Attraction in Complexes of MCl (M=Zn, Cd, Hg) with CN. ChemPhysChem, 2020, 21, 1119-	131.25	22
69	Chalcogen bonding of two ligands to hypervalent YF (Y = S, Se, Te, Po). <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20829-20839	3.6	15
68	Dual Geometry Schemes in Tetrel Bonds: Complexes between TFI(T = Si, Ge, Sn) and Pyridine Derivatives. <i>Molecules</i> , <b>2019</b> , 24,	4.8	21
67	On the ability of pnicogen atoms to engage in both hand thole complexes. Heterodimers of ZFCH (Z = P, As, Sb, Bi) and NH. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 152	2	23
66	Deciphering preferred solid-state conformations in nitrogen-containing bisphosphonates and their coordination compounds. A case study of discrete Cu(II) complexes based on C\(\frac{1}{2}\)ubstituted analogues of zoledronic acid: crystal structures and solid-state characterization. CrystEngComm,	3.3	3
65	<b>2019</b> , 21, 4340-4353 Interactions of (MY)6 (M = Zn, Cd; Y = O, S, Se) quantum dots with N-bases. <i>Structural Chemistry</i> , <b>2019</b> , 30, 1003-1014	1.8	O
64	Structures of clusters surrounding ions stabilized by hydrogen, halogen, chalcogen, and pnicogen bonds. <i>Chemical Physics</i> , <b>2019</b> , 524, 55-62	2.3	12
63	Influence of monomer deformation on the competition between two types of Eholes in tetrel bonds. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 10336-10346	3.6	17
62	Synthesis and molecular structure of polymeric bis(N-methylthiourea-B)bis(thiocyanato-N)nickel(II), [Ni(Metu)2(NCS)2]n; DFT analysis of [Ni(Metu)2(NCS)2]n and [Ni(Thiourea)2(NCS)2]n. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1189, 66-72	3.4	4
61	IR and Raman spectroscopic analysis, DFT modeling, and magnetic properties of a nickel(II) complex, [Ni(succ)(H2O)4]n. <i>Journal of Coordination Chemistry</i> , <b>2019</b> , 72, 2215-2232	1.6	3
60	The role of hydrogen bonding in stacking interactions in Ni(II) complex derived from triethanolamine: synthesis, crystal structure, antimicrobial, and DFT studies. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 5649-5664	2.8	6
59	Theoretical Studies of IR and NMR Spectral Changes Induced by Sigma-Hole Hydrogen, Halogen, Chalcogen, Pnicogen, and Tetrel Bonds in a Model Protein Environment. <i>Molecules</i> , <b>2019</b> , 24,	4.8	23
58	Hexacoordinated Tetrel-Bonded Complexes between TF (T=Si, Ge, Sn, Pb) and NCH: Competition between 🛘 and 🖺 oles. <i>ChemPhysChem</i> , <b>2019</b> , 20, 959-966	3.2	19
57	Copper(II) complex with L-arginine ©rystal structure, DFT calculations, spectroscopic, thermal and magnetic properties. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 228, 272-284	4.4	9

56	Implications of monomer deformation for tetrel and pnicogen bonds. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 8832-8841	3.6	55
55	Aerogen bonds formed between AeOF (Ae = Kr, Xe) and diazines: comparisons between Ehole and Ehole complexes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4676-4687	3.6	24
54	Comparison between Tetrel Bonded Complexes Stabilized by Land LHole Interactions. <i>Molecules</i> , <b>2018</b> , 23,	4.8	36
53	Regium bonds between M clusters (M = Cu, Ag, Au and n = 2-6) and nucleophiles NH and HCN. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 22498-22509	3.6	36
52	Theoretical modeling of argentophilic interactions in [Ag(CN)2]B trimer found in a copper(II) complex of cis-1,2-diaminocyclohexane (Dach), [Cu(Dach)2-Ag(CN)2-Cu(Dach)2][Ag(CN)2]3. Chemical Physics Letters, 2018, 709, 11-15	2.5	4
51	Picoplatin-based complexes with the bioactive orotate and 5-fluoroorotate ligands: Synthesis, DFT calculations, structure, spectroscopic characterization and in vitro cytotoxicity. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1171, 155-167	3.4	2
50	S?N chalcogen bonded complexes of carbon disulfide with diazines. Theoretical study. <i>Chemical Physics</i> , <b>2018</b> , 500, 37-44	2.3	12
49	Synthesis, crystal structure and NLO study of two new versatile Ca (II) complexes. <i>Applied Organometallic Chemistry</i> , <b>2018</b> , 32, e4564	3.1	1
48	Triel-Bonded Complexes between TrR (Tr=B, Al, Ga; R=H, F, Cl, Br, CH) and Pyrazine. <i>ChemPhysChem</i> , <b>2018</b> , 19, 3122-3133	3.2	18
47	Synthesis, crystal structure and DFT calculations of a cyanido-bridged dinuclear zinc(II) complex of cis-1,2-diaminocyclohexane (Dach) containing a dinuclear cyanidozincate(II) anion, [Zn2(Dach)4(CN)][Zn2(CN)7]☑CH3OH. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1169, 110-118	3.4	2
46	Magnesium cinnamate complex, [Mg(cinn)2(H2O)2]n; structural, spectroscopic, thermal, biological and pharmacokinetical characteristics. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1134, 199-207	3.4	6
45	Synthesis, Crystal Structure, DFT Modeling and Biological Activity of a Trinuclear Copper(II) Azide Polymer Containing Imidazole and Bridging Imidazolate Ligands, [Cu3(Imz-H)4(Imz)2(N3)4]n. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 510-517	3.2	3
44	Nature of the interaction between ammonia derivatives and carbon disulfide. A theoretical investigation. <i>International Journal of Quantum Chemistry</i> , <b>2017</b> , 117, e25369	2.1	10
43	DFT studies of copper(II) complexes of cis -1,2-diaminocyclohexane (Dach) and crystal structure of [Cu(Dach) 2 (H 2 O)]Cl 2. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1137, 784-791	3.4	6
42	Synthesis, characterization, DFT calculations and antibacterial activity of palladium(II) cyanide complexes with thioamides. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1141, 204-212	3.4	8
41	Synthesis, crystal structure and DFT studies of a Zinc(II) complex of 1,3-diaminopropane (Dap), [Zn(Dap)(NCS)2][Zn(Dap)(NCS)2]n. The additional stabilizing role of S?[Lhalcogen bond. <i>Journal of Molecular Structure</i> , 2017, 1133, 271-277	3.4	3
40	Silver(I) complex with 2-amino-4,4\(\mathbb{H}\) inhydro-4\(\mathbb{T}\)-dimethyl-3H-phenoxazin-3-one (Phx-1) ligand: crystal structure, vibrational spectra and biological studies. <i>Journal of Coordination Chemistry</i> , <b>2017</b> , 70, 3471-3487	1.6	3
39	Pnictogen bonding in pyrazine <b>P</b> nX (Pn = P, As, Sb and X = F, Cl, Br) complexes. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 328	2	16

#### (2011-2017)

38	Crystal structure and theoretical investigation of bis(cis-1,2-diaminocyclohexane)zinc(II) tetrachloridozincate(II). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, <b>2017</b> , 72, 627-630	1	3
37	Synthesis, X-ray structure, DFT calculations and anticancer activity of a selenourea coordinated gold(I)-carbene complex. <i>Polyhedron</i> , <b>2017</b> , 137, 197-206	2.7	8
36	On the opposite trends of correlations between interaction energies and electrostatic potentials of chlorinated and methylated amine complexes stabilized by halogen bond. <i>Theoretical Chemistry Accounts</i> , <b>2017</b> , 136, 1	1.9	13
35	Spectroscopic and DFT studies of zinc(II) complexes of diamines and thiocyanate; crystal structure of (cis-1,2-diaminocyclohexane)bis(thiocyanato-N)zinc(II). <i>Journal of Molecular Structure</i> , <b>2017</b> , 1128, 455-461	3.4	10
34	1 <b>D</b> Framework l-arginine zinc(II) units bridged by oxalate: synthesis, structure, properties, and theoretical studies. <i>Journal of Coordination Chemistry</i> , <b>2016</b> , 69, 886-900	1.6	6
33	Ab initio and DFT studies of the interaction between carbonyl and thiocarbonyl groups: the role of S\textit{\textit{C}}\text{D} chalcogen bonds. Theoretical Chemistry Accounts, 2016, 135, 1	1.9	12
32	Theoretical investigation of the halogen bonded complexes between carbonyl bases and molecular chlorine. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 821-32	3.5	29
31	Structural, spectroscopic, magnetic behavior and DFT investigations of L-tyrosinato nickel(II) coordination polymer. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 6813-6822	3.6	6
30	MetalBrganic framework in an L-arginine copper(II) ion polymer: structure, properties, theoretical studies and microbiological activity. <i>RSC Advances</i> , <b>2015</b> , 5, 36295-36306	3.7	26
29	Doubly chloro bridged dimeric copper(II) complex: magneto-structural correlation and anticancer activity. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8876-88	4.3	40
28	On the nature of halogen bonded complexes between carbonyl bases and chlorotrifluoromethane. <i>Theoretical Chemistry Accounts</i> , <b>2015</b> , 134, 1	1.9	6
27	Structural and spectroscopic properties and density functional theory (DFT) calculations of a linearly bridged zinc(II) l-tyrosinato complex. <i>Polyhedron</i> , <b>2015</b> , 85, 665-674	2.7	7
26	Raman and infrared spectroscopy, DFT calculations, and vibrational assignment of the anticancer agent picoplatin: performance of long-range corrected/hybrid functionals for a platinum(II) complex. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 6922-34	2.8	22
25	Theoretical studies of the interaction between enflurane and water. <i>Journal of Molecular Modeling</i> , <b>2013</b> , 19, 1399-405	2	5
24	On the nature of unusual intensity changes in the infrared spectra of the enflurane complexes. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6001-7	3.6	13
23	Reaction of volatile anaesthetic desflurane with chlorine atom. Theoretical investigation. <i>Chemical Physics Letters</i> , <b>2013</b> , 555, 72-78	2.5	13
22	Nature of multiple weak interactions between volatile anaesthetic isoflurane and apoferritin: A theoretical study. <i>Chemical Physics</i> , <b>2012</b> , 400, 137-141	2.3	1
21	Halogen bonded complexes between volatile anaesthetics (chloroform, halothane, enflurane, isoflurane) and formaldehyde: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 5105-13	3.6	42

20	Blue shifts and unusual intensity changes in the infrared spectra of the enflurane acceptance complexes: spectroscopic and theoretical studies. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 11362-8	2.8	24
19	The crystal structure, infrared, Raman and density functional studies of bis(2-aminophenyl) diselenide. <i>Polyhedron</i> , <b>2011</b> , 30, 2466-2472	2.7	23
18	Theoretical investigation of the conformation, acidity, basicity and hydrogen bonding ability of halogenated ethers. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 13681-91	3.6	33
17	Adenine ribbon stabilized by Watson-Crick and Hoogsteen hydrogen bonds: WFT and DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2888-94	3.6	13
16	The role of hydrogen bonding in conformational stabilization of 3,5,6- and 3,5-substituted (pyridin-2-yl)aminomethane-1,1-diphosphonic acids and related (pyrimidin-2-yl) derivative. <i>Journal of Molecular Structure</i> , <b>2010</b> , 980, 182-192	3.4	4
15	Modelling of interactions between volatile anaesthetics (halothane, enflurane) and aromatic compounds, ab initio study. <i>Chemical Physics</i> , <b>2010</b> , 373, 243-250	2.3	9
14	Theoretical study of the interaction of a proton with the O, F and Cl atoms of enflurane (CHFClff2f0f1HF2). Computational and Theoretical Chemistry, 2009, 911, 58-64		8
13	Atypical calcium coordination number: Physicochemical study, cytotoxicity, DFT calculations and in silico pharmacokinetic characteristics of calcium caffeates. <i>Journal of Inorganic Biochemistry</i> , <b>2009</b> , 103, 1189-95	4.2	17
12	The amino group in adenine: MP2 and CCSD(T) complete basis set limit calculations of the planarization barrier and DFT/B3LYP study of the anharmonic frequencies of adenine. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 16734-40	3.4	42
11	A computational study of oxidation of ruthenium porphyrins via ORu(IV) and ORu(VI)O species. <i>Dalton Transactions</i> , <b>2006</b> , 1867-74	4.3	13
10	Using mechanistic and computational studies to explain ligand effects in the palladium-catalyzed aerobic oxidation of alcohols. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8499-507	16.4	113
9	A Theoretical Study of the Essential Role of DMSO as a Solvent/Ligand in the Pd(OAc)2/DMSO Catalyst System for Aerobic Oxidation. <i>Organometallics</i> , <b>2005</b> , 24, 6019-6028	3.8	44
8	On differences between hydrogen bonding and improper blue-shifting hydrogen bonding. <i>ChemPhysChem</i> , <b>2005</b> , 6, 609-17	3.2	91
7	The barrier to internal rotation and electronic effects in para-halogenophenols: theoretical study. <i>Chemical Physics Letters</i> , <b>2004</b> , 386, 95-100	2.5	17
6	The dihydrogen bond in X3C $\mathbb{H}$ ?H $\mathbb{M}$ complexes (X = F, Cl, Br; M = Li, Na, K). A correlated quantum chemical ab initio and density functional theory study. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 528	38 <sup>3</sup> 5296	5 32
5	Molecular Structure and Infrared Spectra of 4-Fluorophenol: A Combined Theoretical and Spectroscopic Study. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 4547-4554	2.8	59
4	Electronic structures, vibrational spectra, and revised assignment of aniline and its radical cation: Theoretical study. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 10900-10911	3.9	143
3	Study of the nature of improper blue-shifting hydrogen bonding and standard hydrogen bonding in the X3CHOH2 and XHOH2 complexes (X = F, Cl, Br, I): A correlated Ab initio study.  ChemPhysChem, 2002, 3, 511-8	3.2	83

#### LIST OF PUBLICATIONS

2	Illinoublesome IV ibrations of Aromatic Molecules in Second-Order MIler Plesset and Density Functional Theory Calculations: Infrared Spectra of Phenol and Phenol-OD Revisited. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 8734-8739	2.8	82	
1	Molecular Structures and Infrared Spectra ofp-Chlorophenol andp-Bromophenol. Theoretical and Experimental Studies. <i>Journal of Physical Chemistry A.</i> <b>2000</b> . 104. 11685-11692	2.8	95	