Mariusz Michalczyk

List of Publications by Year in Descending Order

42 papers	600 citations	16 h-index	22 g-index
45 ext. papers	764 ext. citations	3.6 avg, IF	5.13 L-index

#	Paper	IF	Citations
42	Iron (III) complex exhibiting efficient catechol oxidase activity: Experimental, kinetic and theoretical approach. *Journal of Molecular Structure*, **2022**, 1252, 131685	3.4	2
41	Experimental and theoretical evidence of attractive interactions between dianions: [PdCl]?[PdCl]. *Chemical Communications*, **2021**, 57, 13305-13308	5.8	1
40	Ability of Lewis Acids with Shallow σ-Holes to Engage in Chalcogen Bonds in Different Environments. *Molecules*, **2021**, 26,	4.8	3
39	Triel bonds within anionanion complexes. *Physical Chemistry Chemical Physics*, **2021**, 23, 25097-25106	3.6	1
38	Noncovalent Bonds through Sigma and Pi-Hole Located on the Same Molecule. Guiding Principles and Comparisons. *Molecules*, **2021**, 26,	4.8	9
37	Competition between Inter and Intramolecular Tetrel Bonds: Theoretical Studies Complemented by CSD Survey. *ChemPhysChem*, **2021**, 22, 924-934	3.2	2
36	Crystallographic and Theoretical Evidences of Anion???Anion Interaction. *ChemPhysChem*, **2021**, 22, 818-821	3.2	10
35	Anion-Anion Interactions in Aerogen-Bonded Complexes. Influence of Solvent Environment. *Molecules*, **2021**, 26,	4.8	6
34	Experimental and Theoretical Studies of Dimers Stabilized by Two Chalcogen Bonds in the Presence of a N⋯N Pnicogen Bond. *Journal of Physical Chemistry A*, **2021**, 125, 657-668	2.8	7
33	Possible coordination modes of copper(II) atom in model silsesquioxanes complexes at various pH conditions: DFT study. *Chemical Physics Letters*, **2021**, 778, 138739	2.5	1
32	Anion-anion and anion-neutral triel bonds. *Physical Chemistry Chemical Physics*, **2021**, 23, 4818-4828	3.6	11
31	Anionanion (MX) dimers (M = Zn, Cd, Hg; X = Cl, Br, I) in different environments. *Physical Chemistry Chemical Physics*, **2021**, 23, 13853-13861	3.6	6
30	Pnicogen Bonds Pairing Anionic Lewis Acid with Neutral and Anionic Bases. *Journal of Physical Chemistry A*, **2020**, 124, 4998-5006	2.8	17
29	Synthesis, crystal structure, DFT calculations, molecular docking study and Hirshfeld surface analysis of alkoxido-bridged dinuclear iron(III) complex. *Research on Chemical Intermediates*, **2020**, 46, 4155-4171	2.8	6
28	How Many Pnicogen Bonds can be Formed to a Central Atom Simultaneously?. *Journal of Physical Chemistry A*, **2020**, 124, 2046-2056	2.8	19
27	Competition between Intra and Intermolecular Triel Bonds. Complexes between Naphthalene Derivatives and Neutral or Anionic Lewis Bases. *Molecules*, **2020**, 25,	4.8	16
26	On the Stability of Interactions between Pairs of Anions - Complexes of MCl (M=Be, Mg, Ca, Sr, Ba) with Pyridine and CN. *ChemPhysChem*, **2020**, 21, 870-877	3.2	18

25	Synthesis, characterization, DFT optimization and anticancer evaluation of phosphanegold(I) dithiocarbamates. *Journal of Molecular Structure*, **2020**, 1218, 128486	3.4	7
24	Structures and energetics of clusters surrounding diatomic anions stabilized by hydrogen, halogen, and other noncovalent bonds. *Chemical Physics*, **2020**, 530, 110590	2.3	14
23	Coordination of anions by noncovalently bonded σhole ligands. *Coordination Chemistry Reviews*, **2020**, 405, 213136	23.2	41
22	Noncovalent Bonds between Tetrel Atoms. *ChemPhysChem*, **2020**, 21, 1934-1944	3.2	15
21	Anion???Anion Attraction in Complexes of MCl (M=Zn, Cd, Hg) with CN. *ChemPhysChem*, **2020**, 21, 1119-1125	3.2	22
20	Chalcogen bonding of two ligands to hypervalent YF (Y = S, Se, Te, Po). *Physical Chemistry Chemical Physics*, **2019**, 21, 20829-20839	3.6	15
19	Dual Geometry Schemes in Tetrel Bonds: Complexes between TF(T = Si, Ge, Sn) and Pyridine Derivatives. *Molecules*, **2019**, 24,	4.8	21
18	On the ability of pnicogen atoms to engage in both σand σhole complexes. Heterodimers of ZFCH (Z = P, As, Sb, Bi) and NH. *Journal of Molecular Modeling*, **2019**, 25, 152	2	23
17	Interactions of (MY)6 (M = Zn, Cd; Y = O, S, Se) quantum dots with N-bases. *Structural Chemistry*, **2019**, 30, 1003-1014	1.8	0
16	Structures of clusters surrounding ions stabilized by hydrogen, halogen, chalcogen, and pnicogen bonds. *Chemical Physics*, **2019**, 524, 55-62	2.3	12
15	Influence of monomer deformation on the competition between two types of σholes in tetrel bonds. *Physical Chemistry Chemical Physics*, **2019**, 21, 10336-10346	3.6	17
14	The role of hydrogen bonding in π-stacking interactions in Ni(II) complex derived from triethanolamine: synthesis, crystal structure, antimicrobial, and DFT studies. *Research on Chemical Intermediates*, **2019**, 45, 5649-5664	2.8	6
13	Theoretical Studies of IR and NMR Spectral Changes Induced by Sigma-Hole Hydrogen, Halogen, Chalcogen, Pnicogen, and Tetrel Bonds in a Model Protein Environment. *Molecules*, **2019**, 24,	4.8	23
12	Hexacoordinated Tetrel-Bonded Complexes between TF (T=Si, Ge, Sn, Pb) and NCH: Competition between σand σHoles. *ChemPhysChem*, **2019**, 20, 959-966	3.2	19
11	Implications of monomer deformation for tetrel and pnicogen bonds. *Physical Chemistry Chemical Physics*, **2018**, 20, 8832-8841	3.6	55
10	Aerogen bonds formed between AeOF (Ae = Kr, Xe) and diazines: comparisons between σhole and σhole complexes. *Physical Chemistry Chemical Physics*, **2018**, 20, 4676-4687	3.6	24
9	Comparison between Tetrel Bonded Complexes Stabilized by σand σHole Interactions. *Molecules*, **2018**, 23,	4.8	36
8	Regium bonds between M clusters (M = Cu, Ag, Au and n = 2-6) and nucleophiles NH and HCN. *Physical Chemistry Chemical Physics*, **2018**, 20, 22498-22509	3.6	36

7	Theoretical modeling of argentophilic interactions in [Ag(CN)2]3 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
6	S?N chalcogen bonded complexes of carbon disulfide with diazines. Theoretical study. *Chemical Physics*, **2018**, 500, 37-44	2.3	12
5	Triel-Bonded Complexes between TrR (Tr=B, Al, Ga; R=H, F, Cl, Br, CH) and Pyrazine. *ChemPhysChem*, **2018**, 19, 3122-3133	3.2	18
4	Nature of the interaction between ammonia derivatives and carbon disulfide. A theoretical investigation. *International Journal of Quantum Chemistry*, **2017**, 117, e25369	2.1	10
3	Pnictogen bonding in pyrazine PnX (Pn = P, As, Sb and X = F, Cl, Br) complexes. *Journal of Molecular Modeling*, **2017**, 23, 328	2	16
2	Crystal structure and theoretical investigation of bis(cis-1,2-diaminocyclohexane)zinc(II) tetrachloridozincate(II). *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **2017**, 72, 627-630	1	3
1	On the opposite trends of correlations between interaction energies and electrostatic potentials of chlorinated and methylated amine complexes stabilized by halogen bond. *Theoretical Chemistry Accounts*, **2017**, 136, 1	1.9	13