

Mariusz Michalczyk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Implications of monomer deformation for tetrel and pnictogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8832-8841	3.6	55
41	Coordination of anions by noncovalently bonded σ -hole ligands. <i>Coordination Chemistry Reviews</i> , 2020 , 405, 213136	23.2	41
40	Comparison between Tetrel Bonded Complexes Stabilized by π and σ -Hole Interactions. <i>Molecules</i> , 2018 , 23,	4.8	36
39	Regium bonds between M clusters (M = Cu, Ag, Au and n = 2-6) and nucleophiles NH and HCN. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22498-22509	3.6	36
38	Aerogen bonds formed between AeOF (Ae = Kr, Xe) and diazines: comparisons between σ -hole and π -hole complexes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4676-4687	3.6	24
37	On the ability of pnictogen atoms to engage in both π and σ -hole complexes. Heterodimers of ZFCH (Z = P, As, Sb, Bi) and NH. <i>Journal of Molecular Modeling</i> , 2019 , 25, 152	2	23
36	Theoretical Studies of IR and NMR Spectral Changes Induced by Sigma-Hole Hydrogen, Halogen, Chalcogen, Pnictogen, and Tetrel Bonds in a Model Protein Environment. <i>Molecules</i> , 2019 , 24,	4.8	23
35	Anion-Anion Attraction in Complexes of MCl (M=Zn, Cd, Hg) with CN. <i>ChemPhysChem</i> , 2020 , 21, 1119-1125	12.5	22
34	Dual Geometry Schemes in Tetrel Bonds: Complexes between TF (T = Si, Ge, Sn) and Pyridine Derivatives. <i>Molecules</i> , 2019 , 24,	4.8	21
33	How Many Pnictogen Bonds can be Formed to a Central Atom Simultaneously?. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 2046-2056	2.8	19
32	Hexacoordinated Tetrel-Bonded Complexes between TF (T=Si, Ge, Sn, Pb) and NCH: Competition between π and σ -Holes. <i>ChemPhysChem</i> , 2019 , 20, 959-966	3.2	19
31	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> , 2020 , 21, 870-877	3.2	18
30	Triel-Bonded Complexes between TrR (Tr=B, Al, Ga; R=H, F, Cl, Br, CH) and Pyrazine. <i>ChemPhysChem</i> , 2018 , 19, 3122-3133	3.2	18
29	Influence of monomer deformation on the competition between two types of σ -holes in tetrel bonds. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10336-10346	3.6	17
28	Pnictogen Bonds Pairing Anionic Lewis Acid with Neutral and Anionic Bases. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4998-5006	2.8	17
27	Pnictogen bonding in pyrazine-PnX (Pn = P, As, Sb and X = F, Cl, Br) complexes. <i>Journal of Molecular Modeling</i> , 2017 , 23, 328	2	16
26	Competition between Intra and Intermolecular Triel Bonds. Complexes between Naphthalene Derivatives and Neutral or Anionic Lewis Bases. <i>Molecules</i> , 2020 , 25,	4.8	16

25	Chalcogen bonding of two ligands to hypervalent YF (Y = S, Se, Te, Po). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20829-20839	3.6	15
24	Noncovalent Bonds between Tetrel Atoms. <i>ChemPhysChem</i> , 2020 , 21, 1934-1944	3.2	15
23	Structures and energetics of clusters surrounding diatomic anions stabilized by hydrogen, halogen, and other noncovalent bonds. <i>Chemical Physics</i> , 2020 , 530, 110590	2.3	14
22	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> , 2017 , 136, 1	1.9	13
21	Structures of clusters surrounding ions stabilized by hydrogen, halogen, chalcogen, and pnictogen bonds. <i>Chemical Physics</i> , 2019 , 524, 55-62	2.3	12
20	S ₂ N chalcogen bonded complexes of carbon disulfide with diazines. Theoretical study. <i>Chemical Physics</i> , 2018 , 500, 37-44	2.3	12
19	Anion-anion and anion-neutral triel bonds. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4818-4828	3.6	11
18	Nature of the interaction between ammonia derivatives and carbon disulfide. A theoretical investigation. <i>International Journal of Quantum Chemistry</i> , 2017 , 117, e25369	2.1	10
17	Crystallographic and Theoretical Evidences of Anion-Anion Interaction. <i>ChemPhysChem</i> , 2021 , 22, 818-821	3.2	10
16	Noncovalent Bonds through Sigma and Pi-Hole Located on the Same Molecule. Guiding Principles and Comparisons. <i>Molecules</i> , 2021 , 26,	4.8	9
15	Synthesis, characterization, DFT optimization and anticancer evaluation of phosphane-gold(I) dithiocarbamates. <i>Journal of Molecular Structure</i> , 2020 , 1218, 128486	3.4	7
14	Experimental and Theoretical Studies of Dimers Stabilized by Two Chalcogen Bonds in the Presence of a N≡N Pnictogen Bond. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 657-668	2.8	7
13	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> , 2020 , 46, 4155-4171	2.8	6
12	The role of hydrogen bonding in π-π stacking interactions in Ni(II) complex derived from triethanolamine: synthesis, crystal structure, antimicrobial, and DFT studies. <i>Research on Chemical Intermediates</i> , 2019 , 45, 5649-5664	2.8	6
11	Anion-Anion Interactions in Aerogen-Bonded Complexes. Influence of Solvent Environment. <i>Molecules</i> , 2021 , 26,	4.8	6
10	Anion-anion (MX) dimers (M = Zn, Cd, Hg; X = Cl, Br, I) in different environments. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13853-13861	3.6	6
9	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 . <i>Chemical Physics Letters</i> , 2018 , 709, 11-15	2.5	4
8	Crystal structure and theoretical investigation of bis(cis-1,2-diaminocyclohexane)zinc(II) tetrachloridozincate(II). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017 , 72, 627-630	1	3

7	Ability of Lewis Acids with Shallow π Holes to Engage in Chalcogen Bonds in Different Environments. <i>Molecules</i> , 2021 , 26,	4.8	3
6	Iron (III) complex exhibiting efficient catechol oxidase activity: Experimental, kinetic and theoretical approach. <i>Journal of Molecular Structure</i> , 2022 , 1252, 131685	3.4	2
5	Competition between Inter and Intramolecular Tetrel Bonds: Theoretical Studies Complemented by CSD Survey. <i>ChemPhysChem</i> , 2021 , 22, 924-934	3.2	2
4	Experimental and theoretical evidence of attractive interactions between dianions: [PdCl] ₂ [PdCl] ₂ . <i>Chemical Communications</i> , 2021 , 57, 13305-13308	5.8	1
3	Triel bonds within anion-anion complexes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25097-25106	3.6	1
2	Possible coordination modes of copper(II) atom in model silsesquioxanes complexes at various pH conditions: DFT study. <i>Chemical Physics Letters</i> , 2021 , 778, 138739	2.5	1
1	Interactions of (MY) ₆ (M = Zn, Cd; Y = O, S, Se) quantum dots with N-bases. <i>Structural Chemistry</i> , 2019 , 30, 1003-1014	1.8	0