Marcin Palusiak

List of Publications by Year
in descending order

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95	2,827	172457	182427
papers	citations	29 h-index	51 g-index

99	99	99	2457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aromaticity from the Viewpoint of Molecular Geometry: Application to Planar Systems. Chemical Reviews, 2014, 114, 6383-6422.	47.7	439
2	Application of AIM Parameters at Ring Critical Points for Estimation of Ï€â€Electron Delocalization in Sixâ€Membered Aromatic and Quasiâ€Aromatic Rings. Chemistry - A European Journal, 2007, 13, 7996-8006.	3.3	159
3	On the nature of halogen bond â€“ The Kohnâ€“Sham molecular orbital approach. Computational and Theoretical Chemistry, 2010, 945, 89-92.	1.5	122
4	Interplay between Intramolecular Resonance-Assisted Hydrogen Bonding and Aromaticity in o-Hydroxyaryl Aldehydes. Journal of Organic Chemistry, 2006, 71, 5241-5248.	3.2	110
5	Electron Density Characteristics in Bond Critical Point (QTAIM) versus Interaction Energy Components (SAPT): The Case of Charge-Assisted Hydrogen Bonding. Journal of Physical Chemistry A, 2012, 116, 452-459.	2.5	109
6	Nature of a Hydrideâ€“Halogen Bond. A SAPT-, QTAIM-, and NBO-Based Study. Journal of Physical Chemistry A, 2012, 116, 2322-2332.	2.5	96
7	Basis Set and Method Dependence in Atoms in Molecules Calculations. Journal of Physical Chemistry A, 2010, 114, 2240-2244.	2.5	93
8	Intramolecular HÂ·Â·Â·H Interactions for the Crystal Structures of [4-((E)-But-1-enyl)-2,6-dimethoxyphenyl]pyridine-3-carboxylate and [4-((E)-Pent-1-enyl)-2,6-dimethoxyphenyl]pyridine-3-carboxylate; DFT Calculations on Modeled Styrene Derivatives. Journal of Physical Chemistry B, 2004, 108, 1831-1837.	2.6	71
9	Interplay between Intramolecular Resonance-Assisted Hydrogen Bonding and Local Aromaticity. II. 1,3-Dihydroxyaryl-2-aldehydes. Journal of Organic Chemistry, 2009, 74, 2059-2066.	3.2	68
10	Basis Set and Method Dependence in Quantum Theory of Atoms in Molecules Calculations for Covalent Bonds. Journal of Physical Chemistry A, 2010, 114, 12498-12505.	2.5	65
11	Methoxy group as an acceptor of proton in hydrogen bonds. Journal of Molecular Structure, 2002, 642, 97-104.	3.6	63
12	Relationship between substituent effect and aromaticity â€“ Part III: naphthalene as a transmitting moiety for substituent effect. Journal of Physical Organic Chemistry, 2007, 20, 297-306.	1.9	61
13	Substituent effect in para substituted Cr(CO)5â€“pyridine complexes. Journal of Organometallic Chemistry, 2007, 692, 3866-3873.	1.8	53
14	Do intramolecular halogen bonds exist? Ab initio calculations and crystal structuresâ€™ evidences. Structural Chemistry, 2008, 19, 5-11.	2.0	52
15	H-Bonding-Assisted Substituent Effect. Journal of Organic Chemistry, 2010, 75, 4944-4949.	3.2	45
16	The nature of NO-bonding in N-oxide group. Physical Chemistry Chemical Physics, 2015, 17, 16375-16387.	2.8	45
17	Relation between Ï€-Electron Localization/Delocalization and H-Bond Strength in Derivatives ofo-Hydroxy-Schiff Bases. Journal of Organic Chemistry, 2008, 73, 2138-2145.	3.2	44
18	Aromaticity of substituted fulvene derivatives: substituent-dependent ring currents. Physical Chemistry Chemical Physics, 2010, 12, 10740.	2.8	44

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19	The proton transfer reaction in malonaldehyde derivatives: Substituent effects and quasi-aromaticity of the proton bridge. Chemical Physics, 2007, 342, 43-54.	1.9	43
20	Divalent carbon atom as the proton acceptor in hydrogen bonding. Physical Chemistry Chemical Physics, 2009, 11, 5711.	2.8	43
21	EL: the new aromaticity measure based on one-electron density function. Structural Chemistry, 2012, 23, 1173-1183.	2.0	42
22	Halogen bond, hydrogen bond and Nâ‹¯C interaction â€“ On interrelation among these three noncovalent interactions. Computational and Theoretical Chemistry, 2012, 998, 26-33.	2.5	40
23	Ferrocenyl D-Ï€-A chromophores containing 3-dicyanomethylidene-1-indanone and 1,3-bis(dicyanomethylidene)indane acceptor groups. Journal of Organometallic Chemistry, 2003, 675, 35-41.	1.8	35
24	Crystal and Molecular Structure of Pyrrole-2-carboxylic Acid; Ï€-Electron Delocalization of Its Dimersâ^'DFT and MP2 Calculations. Journal of Physical Chemistry A, 2004, 108, 5815-5822.	2.5	35
25	Quasi-aromaticityâ€"what does it mean?. Tetrahedron, 2015, 71, 4895-4908.	1.9	35
26	Ferrocenyl Dâ€"Ï€â€"A conjugated polyenes with 3-dicyanomethylidene-1-indanone and 1,3-bis(dicyanomethylidene)indane acceptor groups: Synthesis, linear and second-order nonlinear optical properties and electrochemistry. Journal of Organometallic Chemistry, 2006, 691, 323-330.	1.8	34
27	Do intramolecular halogen bonds exist? Ab initio calculations and crystal structuresâ€™ evidences. Structural Chemistry, 2007, 18, 859-865.	2.0	34
28	The halogen‹mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si56.gif" overflow="scroll"›‹mml:mrow›‹mml:mo›â‹¯‹/mml:mo›‹/mml:mrow›‹/mml:math›oxygen interaction in 3-halogenopropenal revisited â€“ The dimer model vs. QTAIM indications. Chemical Physics, 2013, 415, 207-213.	1.9	33
29	Does electron density in bond critical point reflect the formal charge distribution in H-bridges? The case of charge-assisted hydrogen bonds (CAHBs). Computational and Theoretical Chemistry, 2011, 966, 113-119.	2.5	31
30	The influence of substituent effect on noncovalent interactions in ternary complexes stabilized by hydrogen-bonding and halogen-bonding. Computational and Theoretical Chemistry, 2014, 1027, 173-178.	2.5	28
31	Tuning the Strength of the Resonance-Assisted Hydrogen Bond in ‹i›o‹/i›-Hydroxybenzaldehyde by Substitution in the Aromatic Ring‹sup›1‹/sup›. Journal of Physical Chemistry A, 2018, 122, 2279-2287.	2.5	28
32	Heteronuclear Intermolecular Resonance-Assisted Hydrogen Bonds. The Structure of Pyrrole-2-Carboxamide (PyCa). Journal of Physical Chemistry B, 2006, 110, 5875-5882.	2.6	27
33	Halogenâ€"halogen interaction in view of many-body approach. Chemical Physics Letters, 2013, 583, 8-13.	2.6	26
34	Extremely Strong Halogen Bond. The Case of a Double-Charge-Assisted Halogen Bridge. Journal of Physical Chemistry A, 2018, 122, 5484-5492.	2.5	26
35	Sulfhydryl-Selective, Covalent Labeling of Biomolecules with Transition Metallocarbonyl Complexes. Synthesis of (Î·5-C5H5)M(CO)3(Î·1-N-Maleimidato) (M = Mo, W), X-ray Structure, and Reactivity Studies. Bioconjugate Chemistry, 2005, 16, 1218-1224.	3.6	25
36	Does the concept of Clar's aromatic sextet work for dicationic forms of polycyclic aromatic hydrocarbons?â€"testing the model against charged systems in singlet and triplet states. Physical Chemistry Chemical Physics, 2011, 13, 11976-11984.	2.8	25

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37	Substituent effects in mono- and disubstituted 1,3,5,7-cyclooctatetraene derivatives in natural and planar conformations. New Journal of Chemistry, 2009, 33, 1753.	2.8	22
38	The shape of the halogen atomâ€"anisotropy of electron distribution and its dependence on basis set and method used. Structural Chemistry, 2013, 24, 1297-1306.	2.0	22
39	N-Oxide as a Proton Accepting Group in Multicomponent Crystals: X-ray and Theoretical Studies on New p-Nitropyridine-N-oxide Co-Crystals. Crystal Growth and Design, 2015, 15, 5802-5815.	3.0	22
40	Halogen bond versus hydrogen bond: The manyâ€body interactions approach. International Journal of Quantum Chemistry, 2017, 117, e25348.	2.0	21
41	Intramolecular carbonylâ‹¯carbonyl interactions in W, Mo and Fe complexes containing the Î·1-N-maleimidato ligand: X-ray, DFT and AIM studies. Journal of Organometallic Chemistry, 2006, 691, 3232-3238.	1.8	19
42	Cyclooctatetraene in metal complexesâ€"planar does not mean aromatic. New Journal of Chemistry, 2010, 34, 1855.	2.8	17
43	Cyclooctatetraene dianionâ€"an artifact?. Journal of Computational Chemistry, 2011, 32, 1441-1448.	3.3	17
44	The substituent effect on benzene dications. Physical Chemistry Chemical Physics, 2014, 16, 4752-4763.	2.8	17
45	Why 1,2-quinone derivatives are more stable than their 2,3-analogues?. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	16
46	Source of Cooperativity in Halogenâ€Bonded Haloamine Tetramers. ChemPhysChem, 2016, 17, 474-480.	2.1	16
47	Routes of Ï€-Electron Delocalization in 4-Substituted-1,2-benzoquinones. Journal of Organic Chemistry, 2011, 76, 550-556.	3.2	15
48	Temperature-dependent polymorphism of N-(4-fluorophenyl)-1,5-dimethyl-1H-imidazole-4-carboxamide 3-oxide: experimental and theoretical studies on intermolecular interactions in the crystal state. Structural Chemistry, 2014, 25, 979-989.	2.0	14
49	The role of sulfur interactions in crystal architecture: experimental and quantum theoretical studies on hydrogen, halogen, and chalcogen bonds in trithiocyanuric acidâ€"pyridine N-oxide co-crystals. CrystEngComm, 2021, 23, 324-334.	2.6	13
50	The phospha-Michael addition of dimethyl- and diphenylphosphites to the Î·1-N-maleimidato ligand: Inhibition of serine hydrolases by half-sandwich metallocarbonyl azaphosphonates. Journal of Organometallic Chemistry, 2009, 694, 908-915.	1.8	12
51	N-Oxideâ€"N-oxide interactions and Cl...Cl halogen bonds in pentachloropyridine N-oxide: the many-body approach to interactions in the crystal state. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 113-119.	0.5	12
52	Tuning Aromaticity of paraâ€Substituted Benzene Derivatives with an External Electric Field. ChemPhysChem, 2018, 19, 590-595.	2.1	12
53	Are the Oâ€"Hâ‹¯Hâ€"C intramolecular systems of 2-cyclopropyl ethenol and its derivatives classified as dihydrogen bonds? Ab initio and DFT study. Computational and Theoretical Chemistry, 2004, 674, 147-152.	1.5	11
54	Aryl (ferrocenyl)-capped ethenylazaferrocenes: synthesis, structure and electrochemistry. New Journal of Chemistry, 2006, 30, 901-907.	2.8	11

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55	Inter- and intramolecular hydrogen bonds â€“ Structures of 1-methylpyrrole-2-carboxamide and 1-hydroxypyrrole-2-carboxamide. Journal of Molecular Structure, 2007, 844-845, 173-180.	3.6	11
56	Modeling the electronic structure of formamide: an acid/base amphoteric solvent. Structural Chemistry, 2012, 23, 1711-1721.	2.0	11
57	Synthesis and characterization of new M(II) carbonyl complexes (MÂ=ÂFe or Ru) including an Î·1-N-maleimidato ligand. Reactivity studies with biological thiols. Journal of Organometallic Chemistry, 2016, 801, 101-110.	1.8	11
58	Unusual electron density topology and intramolecular steric Ï€â€“Ï€ interaction in 1,3,5,7-cyclooctatetraene. Chemical Physics Letters, 2009, 481, 34-38.	2.6	10
59	Feynman force components: basis for a solution to the covalent vs. ionic dilemma. Physical Chemistry Chemical Physics, 2016, 18, 25022-25026.	2.8	10
60	Non-covalent interactions of N-phenyl-1,5-dimethyl-1H-imidazole-4-carboxamide 3-oxide derivativesâ€”a case of intramolecular N-oxide hydrogen bonds. Structural Chemistry, 2017, 28, 1229-1241.	2.0	9
61	Metallocarbonyl complexes: (Î·5-C5H5)M(CO)n(Î·1-N-imidato) (M = Fe, Ru, Mo, W; n = 2, 3) as new photoactive CO-releasing molecules (CORMs). Journal of Photochemistry and Photobiology A: Chemistry, 2018, 351, 115-123.	3.9	9
62	Does Proton Transfer Always Take Place in Molecules of 2-Substituted Pyridine-N-oxides? The Case of 2-Aminopyridine-N-oxide Crystal Structure and Its 3,5-Dinitrobenzoic Acid Co-crystal. Crystal Growth and Design, 2018, 18, 7373-7382.	3.0	9
63	Characteristics of ring critical point as descriptors of H-bond strength. Journal of Chemical Research, 2004, 2004, 492-493.	1.3	8
64	Reaction of ferrocenecarbothioamide and N-(ethoxycarbonyl)ferrocenecarbothioamide with alkyl halides. Journal of Organometallic Chemistry, 2008, 693, 263-268.	1.8	8
65	Use of Quantum Theory of Atoms in Molecules in the Search for Appropriate Hydrogen Atom Locations in X-ray Diffraction Based Studies. Crystal Growth and Design, 2016, 16, 6841-6848.	3.0	8
66	Î·1-N-succinimidato complexes of iron, molybdenum and tungsten as reversible inhibitors of papain. Journal of Inorganic Biochemistry, 2009, 103, 1162-1168.	3.5	7
67	Diels-Alder reaction with cyclopentadiene and electronic structures of (Î·5-cyclopentadienyl)M(CO)x(Î·1-N-maleimidato) (M=Fe, Mo, W, x=2 or 3). Journal of Organometallic Chemistry, 2009, 694, 1354-1358.	1.8	7
68	The effect of benzoannulation on the transition state and the proton transfer equilibrium in di(2-pyridyl)methane derivatives. New Journal of Chemistry, 2011, 35, 1433.	2.8	7
69	Câ€”Br...S halogen bonds in novel thioureaN-oxide cocrystals: analysis of energetic and QTAIM parameters. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 170-176.	0.5	7
70	Bonding in Î²-diketiminate boron and its analogues. Structural Chemistry, 2009, 20, 919-923.	2.0	6
71	UV-vis spectra of singlet state cationic polycyclic aromatic hydrocarbons: Time-dependent density functional theory study. Journal of Chemical Physics, 2014, 140, 044324.	3.0	6
72	Interactions of polar hydrogen bond donor solvents with ions: a theoretical study. Structural Chemistry, 2016, 27, 1279-1289.	2.0	6

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73	Cooperation/Competition between Halogen Bonds and Hydrogen Bonds in Complexes of 2,6-Diaminopyridines and X-CY3 (X = Cl, Br; Y = H, F). Symmetry, 2021, 13, 766.	2.2	6
74	A straightforward conversion of 1,4-quinones into polycyclic pyrazoles via [3 + 2]-cycloaddition with fluorinated nitrile imines. Beilstein Journal of Organic Chemistry, 2021, 17, 1509-1517.	2.2	6
75	Cytotoxicity of pianoâ€stool ruthenium cyclopentadienyl complexes bearing different imidato ligands. Applied Organometallic Chemistry, 2022, 36, .	3.5	6
76	Resonance-Assisted Hydrogen Bondâ€"Revisiting the Original Concept in the Context of Its Criticism in the Literature. International Journal of Molecular Sciences, 2022, 23, 233.	4.1	6
77	Ï€â€Electronic communication through mono and multinuclear gold(I) complexes. International Journal of Quantum Chemistry, 2009, 109, 2507-2519.	2.0	5
78	Aromaticity Induced by Electric Field: The Case of Polycalicenes. Journal of Organic Chemistry, 2015, 80, 9091-9101.	3.2	4
79	A Useful Synthetic Route to N-Nonsubstituted Succinimides via Light-Induced Degradation of Metallocarbonyl Complexes. Organometallics, 2021, 40, 663-673.	2.3	4
80	Trithiocyanuric acid: novel cocrystals and analysis of its tautomeric forms. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 49-55.	0.5	4
81	Co-crystals synthesis of 2- and 4-mercaptopyridine with thiourea and its analogue, trithiocyanuric acid. CrystEngComm, 0, , .	2.6	4
82	Charge-assisted Nâ€"H...I and Câ€"H...I hydrogen bonding in (1R,2S)-1-(ferrocenylmethyl)-2-(methoxymethyl)pyrrolidinium iodide. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, m55-m57.	0.4	3
83	Ionic cocrystals of dithiobispyridines: the role of I...I halogen bonds in the building of iodine frameworks and the stabilization of crystal structures. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 458-466.	0.5	3
84	Inverse electronâ€demand Dielsâ€Alder (iEDDA) bioorthogonal conjugation of halfâ€sandwich transition metallocarbonyl entities to a model protein. Applied Organometallic Chemistry, 2020, 34, e5507.	3.5	2
85	A rare case of a 2:2:1 ternary cocrystal of pyridine sulfides and trithiocyanuric acid. Acta Crystallographica Section C, Structural Chemistry, 2021, 77, 479-484.	0.5	2
86	2-[3-Dicyanomethylene-2-(3-methoxybenzylidene)indan-1-ylidene]malononitrile. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o3052-o3053.	0.2	1
87	Professor Tadeusz Marek Krygowski. Structural Chemistry, 2007, 18, 755-756.	2.0	1
88	A novel hydrogen-bondingN-oxideâ€"sulfonamideâ€"nitro Nâ€"H...O synthon determining the architecture of benzenesulfonamide cocrystals. Acta Crystallographica Section C, Structural Chemistry, 2022, 78, 7-13.	0.5	1
89	Novel melamine â€" salicylic salt solvates and co-crystals; an analysis of the energetic parameters of the intermolecular hydrogen bonds stabilizing the crystal structure. CrystEngComm, 2022, 24, 5688-5696.	2.6	1
90	5-Methoxy-4-(4-methoxyphenyl)isochroman-3-ol. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o11-o13.	0.2	0

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91	4-(E)-But-1-enyl-2,6-dimethoxyphenyl nicotinate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o854-o856.	0.2	0
92	8-Methoxy-4-(4-methoxyphenyl)isochroman-3-ol. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o2000-o2002.	0.2	0
93	Isochroman derivatives and their tendency to crystallize in chiral space groups. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, o239-o241.	0.4	0
94	Dimethyl 3,4,5,5-tetraphenyl-1,3-thiazolidine-2,2-dicarboxylate and 3,3-dichloro-2,2,4,4,3â€²-pentamethyl-r-2â€²,t-4â€²-diphenylcyclobutane-1-spiro-5â€²-1,3-thiazolidine. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, o595-o599.	0.4	0
95	Crystal structure of 3,6-bis(pyridin-2-yl)-1,4-dihydro-1,2,4,5-tetrazine. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 86-88.	0.5	0