

Steve Scheiner

List of Publications by Year in descending order

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316
papers

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12303

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327
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327
docs citations

327
times ranked

10900
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#	ARTICLE	IF	CITATIONS
1	Definition of the hydrogen bond (IUPAC Recommendations 2011). <i>Pure and Applied Chemistry</i> , 2011, 83, 1637-1641.	0.9	1,449
2	Fundamental Properties of the CH \cdots O Interaction: Is It a True Hydrogen Bond?. <i>Journal of the American Chemical Society</i> , 1999, 121, 9411-9422.	6.6	940
3	Defining the hydrogen bond: An account (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2011, 83, 1619-1636.	0.9	856
4	Electronic structure and bonding in metal phthalocyanines, Metal=Fe, Co, Ni, Cu, Zn, Mg. <i>Journal of Chemical Physics</i> , 2001, 114, 9780-9791.	1.2	553
5	The Pnictogen Bond: Its Relation to Hydrogen, Halogen, and Other Noncovalent Bonds. <i>Accounts of Chemical Research</i> , 2013, 46, 280-288.	7.6	524
6	Electronic structure and bonding in metal porphyrins, metal=Fe, Co, Ni, Cu, Zn. <i>Journal of Chemical Physics</i> , 2002, 117, 205-219.	1.2	384
7	Red- versus Blue-Shifting Hydrogen Bonds: Are There Fundamental Distinctions?. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1784-1789.	1.1	331
8	Comparison of Various Types of Hydrogen Bonds Involving Aromatic Amino Acids. <i>Journal of the American Chemical Society</i> , 2002, 124, 13257-13264.	6.6	328
9	Definition of the chalcogen bond (IUPAC Recommendations 2019). <i>Pure and Applied Chemistry</i> , 2019, 91, 1889-1892.	0.9	322
10	Strength of the C \cdots H \cdots O Hydrogen Bond of Amino Acid Residues. <i>Journal of Biological Chemistry</i> , 2001, 276, 9832-9837.	1.6	267
11	Detailed comparison of the pnictogen bond with chalcogen, halogen, and hydrogen bonds. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 1609-1620.	1.0	256
12	Influence of Hybridization and Substitution on the Properties of the CH \cdots O Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10607-10612.	1.1	224
13	Theoretical studies of proton transfers. <i>Accounts of Chemical Research</i> , 1985, 18, 174-180.	7.6	219
14	A new noncovalent force: Comparison of P \cdots N interaction with hydrogen and halogen bonds. <i>Journal of Chemical Physics</i> , 2011, 134, 094315.	1.2	205
15	Comparison of Cooperativity in CH \cdots O and OH \cdots O Hydrogen Bonds. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9161-9168.	1.1	183
16	Sensitivity of pnictogen, chalcogen, halogen and H-bonds to angular distortions. <i>Chemical Physics Letters</i> , 2012, 532, 31-35.	1.2	181
17	Effects of Substituents upon the P \cdots N Noncovalent Interaction: The Limits of Its Strength. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11202-11209.	1.1	172
18	Theoretical Studies of Excited State Proton Transfer in Small Model Systems. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5898-5909.	1.1	171

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19	Weak H-bonds. Comparisons of CH δ^+ O to NH δ^+ O in proteins and PH δ^+ N to direct P δ^+ N interactions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13860.	1.3	163
20	Proton transfers in hydrogen-bonded systems. Cationic oligomers of water. <i>Journal of the American Chemical Society</i> , 1981, 103, 315-320.	6.6	151
21	Effects of Charge and Substituent on the S δ^+ -A δ^- N Chalcogen Bond. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3183-3192.	1.1	144
22	The Nonexistence of Specially Stabilized Hydrogen Bonds in Enzymes. <i>Journal of the American Chemical Society</i> , 1995, 117, 6970-6975.	6.6	142
23	Correction of the basis set superposition error in SCF and MP2 interaction energies. The water dimer. <i>Journal of Chemical Physics</i> , 1986, 84, 6328-6335.	1.2	128
24	Substituent Effects on Cl δ^+ -A δ^- N, S δ^+ -A δ^- N, and P δ^+ -A δ^- N Noncovalent Bonds. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3487-3497.	1.1	127
25	SH δ^+ -A δ^- N and SH δ^+ -A δ^- P blue-shifting H-bonds and N δ^+ -A δ^- P interactions in complexes pairing HSN with amines and phosphines. <i>Journal of Chemical Physics</i> , 2011, 134, 024312.	1.2	126
26	Contributions of NH δ^+ -A δ^- O and CH δ^+ -A δ^- O Hydrogen Bonds to the Stability of β^2 -Sheets in Proteins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18670-18679.	1.2	112
27	Can a C δ^+ -H δ^- -A δ^- O Interaction Be a Determinant of Conformation?. <i>Journal of the American Chemical Society</i> , 2012, 134, 12064-12071.	6.6	110
28	Sensitivity of noncovalent bonds to intermolecular separation: hydrogen, halogen, chalcogen, and pnictogen bonds. <i>CrystEngComm</i> , 2013, 15, 3119-3124.	1.3	109
29	Systematic Elucidation of Factors That Influence the Strength of Tetrel Bonds. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5561-5568.	1.1	108
30	Can two trivalent N atoms engage in a direct N δ^+ N noncovalent interaction?. <i>Chemical Physics Letters</i> , 2011, 514, 32-35.	1.2	105
31	Abilities of Different Electron Donors (D) to Engage in a P δ^+ -A δ^- -D Noncovalent Interaction. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11101-11110.	1.1	103
32	On the properties of X δ^+ ...A δ^- ...N noncovalent interactions for first-, second-, and third-row X atoms. <i>Journal of Chemical Physics</i> , 2011, 134, 164313.	1.2	100
33	Comparison of σ -hole tetrel bonding with π -hole halogen bonds in complexes of XCN (X = F, Cl, Br, I) and NH δ^+ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3581-3590.	1.3	99
34	Insertion of Lithium Ions into Carbon Nanotubes: An ab Initio Study. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10397-10403.	1.1	98
35	Highly Selective Halide Receptors Based on Chalcogen, Pnictogen, and Tetrel Bonds. <i>Chemistry - A European Journal</i> , 2016, 22, 18850-18858.	1.7	98
36	Comparison of tetrel bonds in neutral and protonated complexes of pyridineTF δ^+ and furanTF δ^+ (T = C, Si, and Ge) with NH δ^+ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5550-5559.	1.3	98

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37	Chalcogen Bonding between Tetravalent SF ₄ and Amines. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10849-10856.	1.1	97
38	Comparison between hydrogen and dihydrogen bonds among H ₃ BNH ₃ , H ₂ BNH ₂ , and NH ₃ . <i>Journal of Chemical Physics</i> , 2003, 119, 1473-1482.	1.2	95
39	Proton Transfer Properties of Imidazole. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9235-9241.	2.9	94
40	Sulfur-Containing Oxygen Chalcogen Bonding Mediates AdoMet Recognition in the Lysine Methyltransferase SET7/9. <i>ACS Chemical Biology</i> , 2016, 11, 748-754.	1.6	93
41	Relative Strengths of NH...O and CH...O Hydrogen Bonds between Polypeptide Chain Segments. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16132-16141.	1.2	92
42	Effect of Solvent upon CH...O Hydrogen Bonds with Implications for Protein Folding. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3681-3689.	1.2	92
43	Effects of multiple substitution upon the N noncovalent interaction. <i>Chemical Physics</i> , 2011, 387, 79-84.	0.9	92
44	Conservation and Functional Importance of Carbon-Containing Oxygen Hydrogen Bonding in AdoMet-Dependent Methyltransferases. <i>Journal of the American Chemical Society</i> , 2013, 135, 15536-15548.	6.6	92
45	Comparison of CH...O, SH...O, Chalcogen, and Tetrel Bonds Formed by Neutral and Cationic Sulfur-Containing Compounds. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9189-9199.	1.1	92
46	Theoretical study of hydrogen bonding and proton transfer in the ground and lowest excited singlet states of tropolone. <i>Journal of Chemical Physics</i> , 1994, 101, 9755-9765.	1.2	91
47	Electronic structure and bonding in unligated and ligated Fe porphyrins. <i>Journal of Chemical Physics</i> , 2002, 116, 3635-3645.	1.2	88
48	Origins and properties of the tetrel bond. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5702-5717.	1.3	88
49	Noncovalent π - π Stacking and CH... π Interactions of Aromatics on the Surface of Single-Wall Carbon Nanotubes: An MP2 Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20070-20075.	1.5	87
50	Excited-State Energetics and Proton-Transfer Barriers in Malonaldehyde. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3582-3587.	2.9	86
51	Hydrogen Bonding and Proton Transfer in the Ground and Lowest Excited Singlet States of o-Hydroxyacetophenone. <i>The Journal of Physical Chemistry</i> , 1995, 99, 642-649.	2.9	86
52	Boron-Nitrogen (BN) Substitution of Fullerenes: C ₆₀ to C ₁₂ B ₂₄ N ₂₄ CBN Ball. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2970-2978.	1.1	86
53	Comparison of P...D (D = P,N) with other noncovalent bonds in molecular aggregates. <i>Journal of Chemical Physics</i> , 2011, 135, 184306.	1.2	85
54	Critical assessment of density functional methods for study of proton transfer processes. <i>Chemical Physics Letters</i> , 1995, 234, 159-164.	1.2	82

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55	Comparison of proton transfers in heterodimers and homodimers of NH ₃ and OH ₂ . Journal of Chemical Physics, 1982, 77, 4039-4050.	1.2	81
56	Primary and secondary basis set superposition error at the SCF and MP2 levels. H ₃ N ⁺ ⋯Li ⁺ and H ₂ O ⁺ ⋯Li ⁺ . Journal of Chemical Physics, 1987, 87, 1194-1204.	1.2	81
57	Tetrel, chalcogen, and CH ₃ ⋯O hydrogen bonds in complexes pairing carbonyl-containing molecules with 1, 2, and 3 molecules of CO ₂ . Journal of Chemical Physics, 2015, 142, 034307.	1.2	81
58	Ab initio comparison of H bonds and Li bonds. Complexes of LiF, LiCl, HF, and HCl with NH ₃ . Journal of Chemical Physics, 1984, 81, 4014-4017.	1.2	80
59	Performance assessment of density-functional methods for study of charge-transfer complexes. Journal of Computational Chemistry, 2003, 24, 623-631.	1.5	79
60	Comparison of Morokuma and perturbation theory approaches to decomposition of interaction energy. (NH ₄) ⁺ ⋯NH ₃ . Chemical Physics Letters, 1990, 166, 57-64.	1.2	77
61	The potential energy surface of (NH ₃) ₂ . Journal of Chemical Physics, 1986, 84, 341-347.	1.2	76
62	Hydrogen bonding and proton transfers involving triply bonded atoms. Acetylene and hydrocyanic acid. Journal of the American Chemical Society, 1987, 109, 4199-4206.	6.6	76
63	Hydrogen bonding and proton transfers of the amide group. Journal of the American Chemical Society, 1993, 115, 1958-1963.	6.6	76
64	Intermolecular H ₂ ⋯H Bonding and Proton Transfer in Semisandwich Re and Ru Complexes. Journal of Physical Chemistry A, 1998, 102, 4813-4818.	1.1	76
65	Effect of adjoining aromatic ring upon excited state proton transfer, o-hydroxybenzaldehyde. Computational and Theoretical Chemistry, 1999, 467, 37-49.	1.5	76
66	Proton transfers in hydrogen-bonded systems. 2. Electron correlation effects in diamminehydrogen(1+). Journal of the American Chemical Society, 1981, 103, 2169-2173.	6.6	75
67	Effects of basis set and electron correlation on the calculated properties of the ammonia dimer. Journal of Chemical Physics, 1984, 81, 407-409.	1.2	74
68	Intermolecular MH ₂ ⋯HR Bonding in Monohydride Mo and W Complexes. Journal of Physical Chemistry A, 1998, 102, 260-269.	1.1	74
69	Møller-Plesset treatment of electron correlation effects in (HOHOH) ⁺ . Journal of Chemical Physics, 1982, 77, 4586-4593.	1.2	72
70	Hydrogen bonding and proton transfers involving the carboxylate group. Journal of the American Chemical Society, 1989, 111, 23-31.	6.6	71
71	Basis sets for molecular interactions. 2. Application to H ₃ N⋯HF, H ₃ N⋯HOH, H ₂ O⋯HF, (NH ₃) ₂ , and H ₃ CH ₂ ⋯OH ₂ . Journal of Computational Chemistry, 1987, 8, 674-682.	1.5	70
72	Effects of carbon chain substituents on the P ⁺ ⋯N noncovalent bond. Chemical Physics Letters, 2012, 536, 30-33.	1.2	69

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73	Comparative Strengths of Tetrel, Pnicogen, Chalcogen, and Halogen Bonds and Contributing Factors. <i>Molecules</i> , 2018, 23, 1681.	1.7	69
74	Halogen, Chalcogen, and Pnicogen Bonding Involving Hypervalent Atoms. <i>Chemistry - A European Journal</i> , 2018, 24, 8167-8177.	1.7	68
75	Implications of monomer deformation for tetrel and pnicogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8832-8841.	1.3	67
76	Structure, energetics, and vibrational spectrum of H ₂ O⋯HCl. <i>Journal of Chemical Physics</i> , 1987, 87, 5928-5936.	1.2	66
77	DFT Calculations and Spectral Measurements of Charge-Transfer Complexes Formed by Aromatic Amines and Nitrogen Heterocycles with Tetracyanoethylene and Chloranil. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8939-8948.	1.1	66
78	Coordination of anions by noncovalently bonded π -hole ligands. <i>Coordination Chemistry Reviews</i> , 2020, 405, 213136.	9.5	66
79	Ab initio study of proton transfers including effects of electron correlation. <i>International Journal of Quantum Chemistry</i> , 1983, 23, 739-751.	1.0	61
80	Intramolecular S⋯O Chalcogen Bond as Stabilizing Factor in Geometry of Substituted Phenyl-SF ₃ Molecules. <i>Journal of Organic Chemistry</i> , 2015, 80, 2356-2363.	1.7	61
81	Ab initio molecular orbital estimates of charge partitioning between Bjerrum and ionic defects in ice. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4267-4272.	2.9	60
82	Noncovalent interactions in dimers and trimers of SO ₃ and CO. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	60
83	Proton transfer between phenol and ammonia in ground and excited electronic states. <i>Chemical Physics Letters</i> , 1996, 262, 567-572.	1.2	59
84	Spectroscopic and Structural Signature of the CH⋯O Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11854-11860.	1.1	59
85	Effects of molecular charge and methyl substitution on proton transfer between oxygen atoms. <i>Journal of the American Chemical Society</i> , 1984, 106, 6266-6273.	6.6	58
86	Chalcogen Bonds in Complexes of SOXY (X, Y = F, Cl) with Nitrogen Bases. <i>Journal of Physical Chemistry A</i> , 2015, 119, 535-541.	1.1	58
87	Magnitude and Mechanism of Charge Enhancement of CH⋯O Hydrogen Bonds. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10551-10562.	1.1	57
88	Comparison of halide receptors based on H, halogen, chalcogen, pnicogen, and tetrel bonds. <i>Faraday Discussions</i> , 2017, 203, 213-226.	1.6	57
89	Assembly of Effective Halide Receptors from Components. Comparing Hydrogen, Halogen, and Tetrel Bonds. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3606-3615.	1.1	56
90	Steric Crowding in Tetrel Bonds. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2550-2562.	1.1	55

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91	Effects of external ions on the energetics of proton transfers across hydrogen bonds. <i>The Journal of Physical Chemistry</i> , 1985, 89, 262-266.	2.9	53
92	Activation and Cleavage of Hâ€”R Bonds through Intermolecular H...H Bonding upon Reaction of Proton Donors HR with 18-Electron Transition Metal Hydrides. <i>Journal of Physical Chemistry A</i> , 1999, 103, 514-520.	1.1	52
93	Substituent Effects in the Noncovalent Bonding of SO ₂ to Molecules Containing a Carbonyl Group. The Dominating Role of the Chalcogen Bond. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3835-3845.	1.1	51
94	Boronâ€”Nitrogen (BN) Substitution Patterns in C/BN Hybrid Fullerenes: C ₆₀ -2x(BN) _x (x = 1â€”7). <i>Journal of Physical Chemistry A</i> , 2001, 105, 8376-8384.	1.1	49
95	Proton transfer in the ground and first excited triplet states of malonaldehyde. <i>The Journal of Physical Chemistry</i> , 1992, 96, 9764-9767.	2.9	48
96	Energetics, proton transfer rates, and kinetic isotope effects in bent hydrogen bonds. <i>Journal of the American Chemical Society</i> , 1992, 114, 5849-5856.	6.6	48
97	Quantum mechanical test of Marcus theory. Effects of alkylation upon proton transfer. <i>The Journal of Physical Chemistry</i> , 1986, 90, 2969-2974.	2.9	47
98	Effects of Peripheral Substituents on the Electronic Structure and Properties of Unligated and Ligated Metal Phthalocyanines, Metal = Fe, Co, Zn. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 1201-1210.	2.3	46
99	The â€”Tetrel Bond and its Influence on Hydrogen Bonding and Proton Transfer. <i>ChemPhysChem</i> , 2018, 19, 736-743.	1.0	46
100	Regium bonds between M _n clusters (M = Cu, Ag, Au and <i>n</i> = 2â€”6) and nucleophiles NH ₃ and HCN. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22498-22509.	1.3	46
101	Understanding noncovalent bonds and their controlling forces. <i>Journal of Chemical Physics</i> , 2020, 153, 140901.	1.2	46
102	Comparison between Tetrel Bonded Complexes Stabilized by â€” and â€” Hole Interactions. <i>Molecules</i> , 2018, 23, 1416.	1.7	45
103	Strongly bound noncovalent (SO ₃) _n :H ₂ CO complexes (n = 1, 2). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18974-18981.	1.3	43
104	Vibrational frequencies and intensities of Hâ€”bonded and Liâ€”bonded complexes. H ₃ Nâ€”...â€”HCl and H ₃ Nâ€”...â€”LiCl. <i>Journal of Chemical Physics</i> , 1988, 89, 3131-3138.	1.2	42
105	Proton Conduction by a Chain of Water Molecules in Carbonic Anhydrase. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6420-6426.	1.2	42
106	Effects of Halogen, Chalcogen, Pnicogen, and Tetrel Bonds on IR and NMR Spectra. <i>Molecules</i> , 2019, 24, 2822.	1.7	41
107	Ab Initio investigation of the structure of hydrogen halide-amine complexes in the gas phase and in a polarizable medium. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 47-56.	1.0	40
108	Complexation of nSO ₂ molecules (n= 1, 2, 3) with formaldehyde and thioformaldehyde. <i>Journal of Chemical Physics</i> , 2014, 140, 034302.	1.2	40

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109	S ²⁺ Chalcogen Bonds between SF ₂ or SF ₄ and C≡C Multiple Bonds. Journal of Physical Chemistry A, 2015, 119, 5889-5897.	1.1	40
110	Analysis of the principles governing proton-transfer reactions. Carboxyl group. Journal of the American Chemical Society, 1986, 108, 7178-7186.	6.6	39
111	Cooperativity of conventional and unconventional hydrogen bonds involving imidazole. International Journal of Quantum Chemistry, 2006, 106, 843-851.	1.0	39
112	Tetrel Bonding as a Vehicle for Strong and Selective Anion Binding. Molecules, 2018, 23, 1147.	1.7	39
113	Forty years of progress in the study of the hydrogen bond. Structural Chemistry, 2019, 30, 1119-1128.	1.0	39
114	Identification of Spectroscopic Patterns of CH ⁺ O H-Bonds in Proteins. Journal of Physical Chemistry B, 2009, 113, 10421-10427.	1.2	38
115	Analysis of the Reactivities of Protein C-H Bonds to H Atom Abstraction by OH Radical. Journal of the American Chemical Society, 2010, 132, 16450-16459.	6.6	38
116	Catalysis of the Aza-Diels-Alder Reaction by Hydrogen and Halogen Bonds. Journal of Organic Chemistry, 2016, 81, 2589-2597.	1.7	38
117	Complexing of the Ammonium Ion by Polyethers. Comparative Complexing Thermochemistry of Ammonium, Hydronium, and Alkali Cations. The Journal of Physical Chemistry, 1996, 100, 6445-6450.	2.9	37
118	The N noncovalent interaction: Comparison with hydrogen and halogen bonds. Chemical Physics Letters, 2011, 514, 36-39.	1.2	37
119	Calculating the Properties of Hydrogen Bonds by ab Initio Methods. Reviews in Computational Chemistry, 0, , 165-218.	1.5	37
120	Effects of external ions on the dynamics of proton transfer across a hydrogen bond. The Journal of Physical Chemistry, 1985, 89, 1835-1840.	2.9	36
121	Ab initio study of He(1S)+Cl ₂ (¹ g, ³ u) potential energy surfaces. Journal of Chemical Physics, 1994, 101, 6800-6809.	1.2	36
122	Effects of chemical substitution upon excited state proton transfer. Fluoroderivatives of salicylaldehyde. Chemical Physics, 1999, 246, 65-74.	0.9	36
123	Aerogen bonds formed between AeOF ₂ (Ae = Kr, Xe) and diazines: comparisons between f-hole and e-hole complexes. Physical Chemistry Chemical Physics, 2018, 20, 4676-4687.	1.3	36
124	Studies of dispersion energy in hydrogen-bonded systems. H ₂ O-HOH, H ₂ O-HF, H ₃ N-HF, HF-HF. Journal of Chemical Physics, 1984, 80, 1535-1542.	1.2	35
125	Rules for BN-Substitution in BCN Fullerenes. Separation of BN and C Domains. Journal of Physical Chemistry A, 2003, 107, 8630-8637.	1.1	35
126	Complexes containing CO ₂ and SO ₂ . Mixed dimers, trimers and tetramers. Physical Chemistry Chemical Physics, 2014, 16, 5142-5149.	1.3	35

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127	Substituent Effects on the Binding of Halides by Neutral and Dicationic Bis(triazolium) Receptors. <i>Journal of Physical Chemistry A</i> , 2015, 119, 13064-13073.	1.1	35
128	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> , 2019, 24, 3329.	1.7	35
129	Excited State Intramolecular Proton Transfer in Anionic Analogues of Malonaldehyde. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5901-5909.	1.1	34
130	The Hydrogen Bond: A Hundred Years and Counting. <i>Journal of the Indian Institute of Science</i> , 2020, 100, 61-76.	0.9	34
131	Ab initio study of the structure of guanine-cytosine base pair conformers in gas phase and polar solvents. <i>Molecular Physics</i> , 1995, 84, 469-480.	0.8	33
132	Competitive Halide Binding by Halogen Versus Hydrogen Bonding: Bis(triazole) Pyridinium. <i>Chemistry - A European Journal</i> , 2015, 21, 13330-13335.	1.7	33
133	Factors contributing to distortion energies of bent hydrogen bonds. Implications for proton-transfer potentials. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6565-6574.	2.9	32
134	Theoretical Investigation of the Dihydrogen Bond Linking MH ₂ with HCCRgF (M = Zn, Cd; Rg = Ar, Kr). <i>Journal of Physical Chemistry A</i> , 2005, 109, 11933-11935.	1.1	32
135	Extrapolation to the complete basis set limit for binding energies of noncovalent interactions. <i>Computational and Theoretical Chemistry</i> , 2012, 998, 9-13.	1.1	32
136	Noncovalent Bonds through Sigma and Pi-Hole Located on the Same Molecule. Guiding Principles and Comparisons. <i>Molecules</i> , 2021, 26, 1740.	1.7	32
137	Ability of IR and NMR Spectral Data to Distinguish between a Tetrel Bond and a Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7852-7862.	1.1	31
138	Anion...Anion Attraction in Complexes of MCl ₃ ⁺ (M=Zn, Cd, Hg) with CN ⁻ . <i>ChemPhysChem</i> , 2020, 21, 1119-1125.	1.0	31
139	Proton transfers in hydrogen-bonded systems. VI. Electronic redistributions in (N ₂ H ₇) ⁺ and (O ₂ H ₅) ⁺ . <i>Journal of Chemical Physics</i> , 1981, 75, 5791-5801.	1.2	30
140	Calculation of barriers to proton transfer using multiconfiguration self-consistent field methods. I. Effects of localization. <i>Journal of Chemical Physics</i> , 1992, 97, 7507-7518.	1.2	30
141	Assessment of the Presence and Strength of H-Bonds by Means of Corrected NMR. <i>Molecules</i> , 2016, 21, 1426.	1.7	30
142	Molecular orbital study of proton transfer in (H ₃ NHOH ₂) ⁺ . <i>The Journal of Physical Chemistry</i> , 1983, 87, 1145-1153.	2.9	29
143	Crystallographic and Computational Characterization of Methyl Tetrel Bonding in S-Adenosylmethionine-Dependent Methyltransferases. <i>Molecules</i> , 2018, 23, 2965.	1.7	29
144	On the ability of pnicogen atoms to engage in both σ and π -hole complexes. Heterodimers of ZF ₂ C ₆ H ₅ (Z = P, As, Sb, Bi) and NH ₃ . <i>Journal of Molecular Modeling</i> , 2019, 25, 152.	0.8	29

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145	The ditetrel bond: noncovalent bond between neutral tetrel atoms. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16606-16614.	1.3	29
146	How Many Pnictogen Bonds can be Formed to a Central Atom Simultaneously?. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2046-2056.	1.1	29
147	Participation of S and Se in hydrogen and chalcogen bonds. <i>CrystEngComm</i> , 2021, 23, 6821-6837.	1.3	29
148	Vibrational frequencies and intensities of Hâ€bonded systems. 1:1 and 1:2 complexes of NH ₃ and PH ₃ with HF. <i>Journal of Chemical Physics</i> , 1987, 87, 2214-2224.	1.2	28
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308	Additivity of the effects of external ions and dipoles upon the energetics of proton transfer. <i>International Journal of Quantum Chemistry</i> , 1986, 30, 71-79.	1.0	1
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