Steve Scheiner

List of Publications by Year
in descending order

316 papers	18,242 citations	12303 69 h-index	17055 122 g-index
327 all docs	327 docs citations	327 times ranked	10900 citing authors

#	Article	IF	Citations
1	Promotion of TH3 (T = Si and Ge) group transfer within a tetrel bond by a cationâ€“Ï€ interaction. Physical Chemistry Chemical Physics, 2022, 24, 1113-1119.	1.3	3
2	Influence of Substituents in the Benzene Ring on the Halogen Bond of Iodobenzene with Ammonia. ChemPhysChem, 2022, 23, .	1.0	19
3	Principles Guiding the Square Bonding Motif Containing a Pair of Chalcogen Bonds between Chalcogenadiazoles. Journal of Physical Chemistry A, 2022, 126, 1194-1203.	1.1	13
4	Search for an exothermic halogen bond between anions. Physical Chemistry Chemical Physics, 2022, 24, 6964-6972.	1.3	3
5	Characterization of Type I and II Interactions between Halogen Atoms. Crystal Growth and Design, 2022, 22, 2692-2702.	1.4	16
6	The Role of Hydrogen Bonds in Interactions between [PdCl4]2âˆ’ Dianions in Crystal. Molecules, 2022, 27, 2144.	1.7	4
7	Competition between Intra and Intermolecular Pnicogen Bonds. Complexes between Naphthalene Derivatives and Neutral or Anionic Bases. ChemPhysChem, 2022, , .	1.0	4
8	Resonance-assisted intramolecular triel bonds. Physical Chemistry Chemical Physics, 2022, 24, 15015-15024.	1.3	6
9	Experimental and Theoretical Evidence of a Pbâ‹…â‹…â‹…Pb Ditetrel Bond Without a Ïƒâ€Hole. ChemPhysChem, 2022, 23, .	1.0	4
10	Various Sorts of Chalcogen Bonds Formed by an Aromatic System. Journal of Physical Chemistry A, 2022, 126, 4025-4035.	1.1	9
11	Carbon as an electron donor atom. Polyhedron, 2021, 193, 114905.	1.0	8
12	Unusual substituent effects in the TrÂ·Â·Â·Te triel bond. International Journal of Quantum Chemistry, 2021, 121, e26526.	1.0	6
13	Comparison of Bifurcated Halogen with Hydrogen Bonds. Molecules, 2021, 26, 350.	1.7	12
14	Experimental and Theoretical Studies of Dimers Stabilized by Two Chalcogen Bonds in the Presence of a NÂ·Â·Â·N Pnicogen Bond. Journal of Physical Chemistry A, 2021, 125, 657-668.	1.1	14
15	Origins and properties of the tetrel bond. Physical Chemistry Chemical Physics, 2021, 23, 5702-5717.	1.3	88
16	Weak Ïƒâ€Hole Triel Bond between C 5 H 5 Tr (Tr=B, Al, Ga) and Haloethyne: Substituent and Cooperativity Effects. ChemPhysChem, 2021, 22, 481-487.	1.0	15
17	Molecular Recognition. ChemPhysChem, 2021, 22, 433-434.	1.0	4
18	Relative Strengths of a Pnicogen and a Tetrel Bond and Their Mutual Effects upon One Another. Journal of Physical Chemistry A, 2021, 125, 2631-2641.	1.1	13

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19	Noncovalent Bonds through Sigma and Pi-Hole Located on the Same Molecule. Guiding Principles and Comparisons. Molecules, 2021, 26, 1740.	1.7	32
20	Competition between Inter and Intramolecular Tetrel Bonds: Theoretical Studies Complemented by CSD Survey. ChemPhysChem, 2021, 22, 924-934.	1.0	7
21	Crystallographic and Theoretical Evidences of Anionâ‹…â‹…â‹…Anion Interaction. ChemPhysChem, 2021, 22, 818-821.	1.0	25
22	Anionâ€“Anion Interactions in Aerogen-Bonded Complexes. Influence of Solvent Environment. Molecules, 2021, 26, 2116.	1.7	13
23	Fabricating Flexible Packaging Batteries in General Chemistry Laboratories. Journal of Chemical Education, 2021, 98, 2471-2475.	1.1	2
24	Proximity Effects of Substituents on Halogen Bond Strength. Journal of Physical Chemistry A, 2021, 125, 5069-5077.	1.1	17
25	Diboron Bonds Between BX 3 (X=H, F, CH 3) and BYZ 2 (Y=H, F; Z=CO, N 2 , CNH). ChemPhysChem, 2021, 22, 1461-1469.	1.0	4
26	Probing the Hydrogen-Bonding Environment of Individual Bases in DNA Duplexes with Isotope-Edited Infrared Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 7613-7627.	1.2	9
27	Dissection of the Origin of Ï€-Holes and the Noncovalent Bonds in Which They Engage. Journal of Physical Chemistry A, 2021, 125, 6514-6528.	1.1	21
28	Enhancement of the Tetrel Bond by the Effects of Substituents, Cooperativity, and Electric Field: Transition from Noncovalent to Covalent Bond. ChemPhysChem, 2021, 22, 2305-2312.	1.0	6
29	Partial transfer of bridging atom in halogen-bonded complexes. Computational and Theoretical Chemistry, 2021, 1204, 113398.	1.1	2
30	Anionâ€“anion and anionâ€“neutral triel bonds. Physical Chemistry Chemical Physics, 2021, 23, 4818-4828.	1.3	19
31	Participation of S and Se in hydrogen and chalcogen bonds. CrystEngComm, 2021, 23, 6821-6837.	1.3	29
32	Noncovalent bond between tetrel Ï€-hole and hydride. Physical Chemistry Chemical Physics, 2021, 23, 10536-10544.	1.3	2
33	Anionâ‹¯anion (MX₃^{â^'})₂ dimers (M = Zn, Cd, Hg; X = Cl, Br, I) in different environments. Physical Chemistry Chemical Physics, 2021, 23, 13853-13861.	1.3	16
34	Competition between a Tetrel and Halogen Bond to a Common Lewis Acid. Journal of Physical Chemistry A, 2021, 125, 308-316.	1.1	14
35	Ability of Lewis Acids with Shallow Ïƒ-Holes to Engage in Chalcogen Bonds in Different Environments. Molecules, 2021, 26, 6394.	1.7	9
36	Anatomy of Ï€-hole bonds: Linear systems. Journal of Chemical Physics, 2021, 155, 174302.	1.2	5

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37	Triel bonds within anionÂ·Â·Â·anion complexes. Physical Chemistry Chemical Physics, 2021, 23, 25097-25106.	1.3	6
38	On the Ability of Nitrogen to Serve as an Electron Acceptor in a Pnicogen Bond. Journal of Physical Chemistry A, 2021, 125, 10419-10427.	1.1	14
39	Maximal occupation by bases of Ï€â€hole bands surrounding linear molecules. Journal of Computational Chemistry, 2021, , .	1.5	2
40	Experimental and theoretical evidence of attractive interactions between dianions: [PdCl₄]^{2âˆ’}â‹¯[PdCl₄]^{2âˆ’}. Chemical Communications, 2021, 57, 13305-13308.	2.2	7
41	Structures and energetics of clusters surrounding diatomic anions stabilized by hydrogen, halogen, and other noncovalent bonds. Chemical Physics, 2020, 530, 110590.	0.9	15
42	The Hydrogen Bond: A Hundred Years and Counting. Journal of the Indian Institute of Science, 2020, 100, 61-76.	0.9	34
43	Tuning the Competition between Hydrogen and Tetrel Bonds by a Magnesium Bond. ChemPhysChem, 2020, 21, 212-219.	1.0	28
44	Coordination of anions by noncovalently bonded Ïƒ-hole ligands. Coordination Chemistry Reviews, 2020, 405, 213136.	9.5	66
45	Versatility of the Cyano Group in Intermolecular Interactions. Molecules, 2020, 25, 4495.	1.7	8
46	Understanding noncovalent bonds and their controlling forces. Journal of Chemical Physics, 2020, 153, 140901.	1.2	46
47	The balance between sideâ€chain and backboneâ€driven association in folding of the Î±â€helical influenza A transmembrane peptide. Journal of Computational Chemistry, 2020, 41, 2177-2188.	1.5	3
48	Noncovalent Bonds between Tetrel Atoms. ChemPhysChem, 2020, 21, 1934-1944.	1.0	24
49	F-Halogen Bond: Conditions for Its Existence. Journal of Physical Chemistry A, 2020, 124, 7290-7299.	1.1	17
50	Relationships between Bond Strength and Spectroscopic Quantities in H-Bonds and Related Halogen, Chalcogen, and Pnicogen Bonds. Journal of Physical Chemistry A, 2020, 124, 7716-7725.	1.1	16
51	Effect of carbon hybridization in Câ€”F bond as an electron donor in triel bonds. Journal of Chemical Physics, 2020, 153, 074304.	1.2	6
52	Pnicogen Bonds Pairing Anionic Lewis Acid with Neutral and Anionic Bases. Journal of Physical Chemistry A, 2020, 124, 4998-5006.	1.1	24
53	Complexes of HArF and AuX (X = F, Cl, Br, I). Comparison of Hâ€bonds, halogen bonds, Fâ€shared bonds and covalent bonds. Applied Organometallic Chemistry, 2020, 34, e5891.	1.7	6
54	Coordination of a Central Atom by Multiple Intramolecular Pnicogen Bonds. Inorganic Chemistry, 2020, 59, 9315-9324.	1.9	19

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55	The ditetrel bond: noncovalent bond between neutral tetrel atoms. Physical Chemistry Chemical Physics, 2020, 22, 16606-16614.	1.3	29
56	How Many Pnicogen Bonds can be Formed to a Central Atom Simultaneously?. Journal of Physical Chemistry A, 2020, 124, 2046-2056.	1.1	29
57	Xeâ‹¯chalcogen aerogen bond. Effect of substituents and size of chalcogen atom. Physical Chemistry Chemical Physics, 2020, 22, 4115-4121.	1.3	11
58	Competition between Intra and Intermolecular Triel Bonds. Complexes between Naphthalene Derivatives and Neutral or Anionic Lewis Bases. Molecules, 2020, 25, 635.	1.7	20
59	On the Stability of Interactions between Pairs of Anions â€“ Complexes of MCl₃^{âˆ’} (M=Be, Mg, Ca, Sr, Ba) with Pyridine and CN^{âˆ’}. ChemPhysChem, 2020, 21, 870-877.	1.0	25
60	Anionâ‹…â‹…â‹…Anion Attraction in Complexes of MCl₃^{âˆ’} (M=Zn, Cd, Hg) with CN^{âˆ’}. ChemPhysChem, 2020, 21, 1119-1125.	1.0	31
61	Effects of Halogen, Chalcogen, Pnicogen, and Tetrel Bonds on IR and NMR Spectra. Molecules, 2019, 24, 2822.	1.7	41
62	Violation of Electrostatic Rules: Shifting the Balance between Pnicogen Bonds and Lone Pairâˆ’Ï€ Interactions Tuned by Substituents. Journal of Physical Chemistry A, 2019, 123, 7288-7295.	1.1	11
63	The ability of a tetrel bond to transition a neutral amino acid into a zwitterion. Chemical Physics Letters, 2019, 731, 136584.	1.2	9
64	Comparison of halogen with proton transfer. Symmetric and asymmetric systems. Chemical Physics Letters, 2019, 731, 136593.	1.2	4
65	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, 3329.	1.7	35
66	Chalcogen bonding of two ligands to hypervalent YF₄(Y = S, Se, Te, Po). Physical Chemistry Chemical Physics, 2019, 21, 20829-20839.	1.3	27
67	Dual Geometry Schemes in Tetrel Bonds: Complexes between TF4 (T = Si, Ge, Sn) and Pyridine Derivatives. Molecules, 2019, 24, 376.	1.7	28
68	Switchable Aromaticity in an Isostructural Mn Phthalocyanine Series Isolated in Five Separate Redox States. Journal of the American Chemical Society, 2019, 141, 2604-2613.	6.6	28
69	On the ability of pnicogen atoms to engage in both Ïƒ and Ï€-hole complexes. Heterodimers of ZF2C6H5 (Zâ€‰=â€‰P, As, Sb, Bi) and NH3. Journal of Molecular Modeling, 2019, 25, 152.	0.8	29
70	Computational Insights into Mgâ€Cl Complex Electrolytes for Rechargeable Magnesium Batteries. Batteries and Supercaps, 2019, 2, 792-800.	2.4	16
71	Comparison between Hydrogen and Halogen Bonds in Complexes of 6â€OXâ€Fulvene with Pnicogen and Chalcogen Electron Donors. ChemPhysChem, 2019, 20, 1978-1984.	1.0	16
72	Forty years of progress in the study of the hydrogen bond. Structural Chemistry, 2019, 30, 1119-1128.	1.0	39

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73	Interactions of (MY)6 (M = Zn, Cd; Y = O, S, Se) quantum dots with N-bases. Structural Chemistry, 2019, 30, 1003-1014.	1.0	2
74	Structures of clusters surrounding ions stabilized by hydrogen, halogen, chalcogen, and pnicogen bonds. Chemical Physics, 2019, 524, 55-62.	0.9	13
75	Influence of monomer deformation on the competition between two types of Ïƒ-holes in tetrel bonds. Physical Chemistry Chemical Physics, 2019, 21, 10336-10346.	1.3	20
76	On the capability of metalâ€“halogen groups to participate in halogen bonds. CrystEngComm, 2019, 21, 2875-2883.	1.3	18
77	Optical Stability of 1,1â€²-Binaphthyl Derivatives. ACS Omega, 2019, 4, 6044-6049.	1.6	11
78	Differential Binding of Tetrel-Bonding Bipodal Receptors to Monatomic and Polyatomic Anions. Molecules, 2019, 24, 227.	1.7	21
79	Structural and Functional Characterization of Sulfonium Carbonâ€“Oxygen Hydrogen Bonding in the Deoxyamino Sugar Methyltransferase TylM1. Biochemistry, 2019, 58, 2152-2159.	1.2	0
80	Hexacoordinated Tetrelâ€Bonded Complexes between TF₄ (T=Si, Ge, Sn, Pb) and NCH: Competition between Ïƒâ€•and Ï€â€Holes. ChemPhysChem, 2019, 20, 959-966.	1.0	25
81	Comparison of Ïƒâ€hole and Ï€â€hole tetrel bonds in complexes of borazine with TH₃F and F₂TO/H₂TO (Tâ€‰=â€‰C, Si, Ge). International Journal of Quantum Chemistry, 2019, 119, e25910.	1.0	19
82	Definition of the chalcogen bond (IUPAC Recommendations 2019). Pure and Applied Chemistry, 2019, 91, 1889-1892.	0.9	322
83	Carbene triel bonds between TrR 3 (Trâ€‰=â€‰B, Al) and Nâ€heterocyclic carbenes. International Journal of Quantum Chemistry, 2019, 119, e25867.	1.0	27
84	Dependence of NMR chemical shifts upon CH bond lengths of a methyl group involved in a tetrel bond. Chemical Physics Letters, 2019, 714, 61-64.	1.2	16
85	Implications of monomer deformation for tetrel and pnicogen bonds. Physical Chemistry Chemical Physics, 2018, 20, 8832-8841.	1.3	67
86	Steric Crowding in Tetrel Bonds. Journal of Physical Chemistry A, 2018, 122, 2550-2562.	1.1	55
87	Halogen, Chalcogen, and Pnicogen Bonding Involving Hypervalent Atoms. Chemistry - A European Journal, 2018, 24, 8167-8177.	1.7	68
88	Effect of Magnesium Bond on the Competition Between Hydrogen and Halogen Bonds and the Induction of Proton and Halogen Transfer. ChemPhysChem, 2018, 19, 1456-1464.	1.0	11
89	Aerogen bonds formed between AeOF₂(Ae = Kr, Xe) and diazines: comparisons between Ïƒ-hole and Ï€-hole complexes. Physical Chemistry Chemical Physics, 2018, 20, 4676-4687.	1.3	36
90	Comparison of Various Means of Evaluating Molecular Electrostatic Potentials for Noncovalent Interactions. Journal of Computational Chemistry, 2018, 39, 500-510.	1.5	27

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91	The Ï€â€•Tetrel Bond and its Influence on Hydrogen Bonding and Proton Transfer. ChemPhysChem, 2018, 19, 736-743.	1.0	46
92	Crystallographic and Computational Characterization of Methyl Tetrel Bonding in S-Adenosylmethionine-Dependent Methyltransferases. Molecules, 2018, 23, 2965.	1.7	29
93	Ability of IR and NMR Spectral Data to Distinguish between a Tetrel Bond and a Hydrogen Bond. Journal of Physical Chemistry A, 2018, 122, 7852-7862.	1.1	31
94	Trielâ€•Bonded Complexes between TrR₃ (Tr=B, Al, Ga; R=H, F, Cl, Br, CH₃) and Pyrazine. ChemPhysChem, 2018, 19, 3122-3133.	1.0	25
95	Tetrel Bonding as a Vehicle for Strong and Selective Anion Binding. Molecules, 2018, 23, 1147.	1.7	39
96	Comparative Strengths of Tetrel, Pnicogen, Chalcogen, and Halogen Bonds and Contributing Factors. Molecules, 2018, 23, 1681.	1.7	69
97	Comparison between Tetrel Bonded Complexes Stabilized by Ïƒ and Ï€ Hole Interactions. Molecules, 2018, 23, 1416.	1.7	45
98	Water-Mediated Carbonâ€"Oxygen Hydrogen Bonding Facilitates <i>S</i>-Adenosylmethionine Recognition in the Reactivation Domain of Cobalamin-Dependent Methionine Synthase. Biochemistry, 2018, 57, 3733-3740.	1.2	16
99	Regium bonds between M_n clusters (M = Cu, Ag, Au and <i>n</i> = 2â€"6) and nucleophiles NH₃ and HCN. Physical Chemistry Chemical Physics, 2018, 20, 22498-22509.	1.3	46
100	Comparison of tetrel bonds in neutral and protonated complexes of pyridineTF₃and furanTF₃(T = C, Si, and Ge) with NH₃. Physical Chemistry Chemical Physics, 2017, 19, 5550-5559.	1.3	98
101	Assembly of Effective Halide Receptors from Components. Comparing Hydrogen, Halogen, and Tetrel Bonds. Journal of Physical Chemistry A, 2017, 121, 3606-3615.	1.1	56
102	Comparison of halide receptors based on H, halogen, chalcogen, pnicogen, and tetrel bonds. Faraday Discussions, 2017, 203, 213-226.	1.6	57
103	The halogen bond in solution: general discussion. Faraday Discussions, 2017, 203, 347-370.	1.6	5
104	Computational approaches and sigma-hole interactions: general discussion. Faraday Discussions, 2017, 203, 131-163.	1.6	17
105	Can HCCH/HBNH Break Bâ•N/Câ•C Bonds of Single-Wall BN/Carbon Nanotubes at Their Surface?. Journal of Physical Chemistry C, 2017, 121, 26044-26053.	1.5	0
106	Systematic Elucidation of Factors That Influence the Strength of Tetrel Bonds. Journal of Physical Chemistry A, 2017, 121, 5561-5568.	1.1	108
107	Monitoring the Charge Distribution during Proton and Sodium Ion Conduction along Chains of Water Molecules and Protein Residues. Israel Journal of Chemistry, 2017, 57, 385-392.	1.0	2
108	Halogen Bonds Formed between Substituted Imidazoliums and N Bases of Varying N-Hybridization. Molecules, 2017, 22, 1634.	1.7	18

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109	Assessment of the Presence and Strength of H-Bonds by Means of Corrected NMR. Molecules, 2016, 21, 1426.	1.7	30
110	Hâ€bonding and stacking interactions between chloroquine and temozolomide. International Journal of Quantum Chemistry, 2016, 116, 1196-1204.	1.0	7
111	Segmentation and additive approach: A reliable technique to study noncovalent interactions of large molecules at the surface of singleâ€wall carbon nanotubes. Journal of Computational Chemistry, 2016, 37, 1953-1961.	1.5	0
112	Enhancing the Reduction Potential of Quinones via Complex Formation. Journal of Organic Chemistry, 2016, 81, 4316-4324.	1.7	9
113	Torsional and Electronic Factors Control the Câˆ’Hâ‹…â‹…â‹…O Interaction. Chemistry - A European Journal, 2016, 22, 16513-16521.	1.7	18
114	Highly Selective Halide Receptors Based on Chalcogen, Pnicogen, and Tetrel Bonds. Chemistry - A European Journal, 2016, 22, 18850-18858.	1.7	98
115	Interactions of Nucleic Acid Bases with Temozolomide. Stacked, Perpendicular, and Coplanar Heterodimers. Journal of Physical Chemistry B, 2016, 120, 9347-9361.	1.2	10
116	Effects of Angular Deformation on the Energetics of the S_N2 Reaction. European Journal of Organic Chemistry, 2016, 2016, 3964-3968.	1.2	1
117	Interactions between temozolomide and quercetin. Structural Chemistry, 2016, 27, 1577-1588.	1.0	7
118	Interpretation of Spectroscopic Markers of Hydrogen Bonds. ChemPhysChem, 2016, 17, 2263-2271.	1.0	17
119	NXâ‹¯Y halogen bonds. Comparison with NHâ‹¯Y H-bonds and CXâ‹¯Y halogen bonds. Physical Chemistry Chemical Physics, 2016, 18, 18015-18023.	1.3	17
120	Building a Better Halide Receptor: Optimum Choice of Spacer, Binding Unit, and Halosubstitution. ChemPhysChem, 2016, 17, 836-844.	1.0	15
121	Hydrogen bonded and stacked geometries of the temozolomide dimer. Journal of Molecular Modeling, 2016, 22, 77.	0.8	13
122	Catalysis of the Aza-Dielsâ€“Alder Reaction by Hydrogen and Halogen Bonds. Journal of Organic Chemistry, 2016, 81, 2589-2597.	1.7	38
123	Sulfurâ€“Oxygen Chalcogen Bonding Mediates AdoMet Recognition in the Lysine Methyltransferase SET7/9. ACS Chemical Biology, 2016, 11, 748-754.	1.6	93
124	Comparison of Ï€-hole tetrel bonding with Ïƒ-hole halogen bonds in complexes of XCN (X = F, Cl, Br, I) and NH₃. Physical Chemistry Chemical Physics, 2016, 18, 3581-3590.	1.3	99
125	Regioselectivity of the interaction of temozolomide with borane and boron trifluoride. Structural Chemistry, 2015, 26, 1359-1365.	1.0	9
126	Competitive Halide Binding by Halogen Versus Hydrogen Bonding: Bisâ€triazole Pyridinium. Chemistry - A European Journal, 2015, 21, 13330-13335.	1.7	33

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127	Dissection of the Factors Affecting Formation of a CHâˆ™âˆ™âˆ™O H-Bond. A Case Study. Crystals, 2015, 5, 327-345.	1.5	15
128	SÂ·Â·Â·Ï€ Chalcogen Bonds between SF₂ or SF₄ and Câ€“C Multiple Bonds. Journal of Physical Chemistry A, 2015, 119, 5889-5897.	1.1	40
129	Substituent Effects on the Binding of Halides by Neutral and Dicationic Bis(triazolium) Receptors. Journal of Physical Chemistry A, 2015, 119, 13064-13073.	1.1	35
130	Bâ•N Bond Cleavage and BN Ring Expansion at the Surface of Boron Nitride Nanotubes by Iminoborane. Journal of Physical Chemistry C, 2015, 119, 3253-3259.	1.5	15
131	Intramolecular SÂ·Â·Â·O Chalcogen Bond as Stabilizing Factor in Geometry of Substituted Phenyl-SF3 Molecules. Journal of Organic Chemistry, 2015, 80, 2356-2363.	1.7	61
132	Anionic CHâ‹…â‹…â‹…X^{âˆ’} Hydrogen Bonds: Origin of Their Strength, Geometry, and Other Properties. Chemistry - A European Journal, 2015, 21, 1474-1481.	1.7	26
133	Site and chirality selective chemical modifications of boron nitride nanotubes (BNNTs) via Lewis acidâ€“base interactions. Physical Chemistry Chemical Physics, 2015, 17, 3850-3866.	1.3	20
134	Chalcogen Bonds in Complexes of SOXY (X, Y = F, Cl) with Nitrogen Bases. Journal of Physical Chemistry A, 2015, 119, 535-541.	1.1	58
135	Frontispiece: Anionic CHâ‹…â‹…â‹…Xâˆ’Hydrogen Bonds: Origin of Their Strength, Geometry, and Other Properties. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
136	Comparison of CHÂ·Â·Â·O, SHÂ·Â·Â·O, Chalcogen, and Tetrel Bonds Formed by Neutral and Cationic Sulfur-Containing Compounds. Journal of Physical Chemistry A, 2015, 119, 9189-9199.	1.1	92
137	Structure and Properties of [8]BN-Circulenes: Inorganic Analogues of [8]Circulenes. Journal of Physical Chemistry C, 2015, 119, 15541-15546.	1.5	11
138	Long-range behavior of noncovalent bonds. Neutral and charged H-bonds, pnicogen, chalcogen, and halogen bonds. Chemical Physics, 2015, 456, 34-40.	0.9	21
139	Interactions between Thiourea and Imines. Prelude to Catalysis. Journal of Organic Chemistry, 2015, 80, 10334-10341.	1.7	6
140	Tetrel, chalcogen, and CHâ‹…â‹…O hydrogen bonds in complexes pairing carbonyl-containing molecules with 1, 2, and 3 molecules of CO2. Journal of Chemical Physics, 2015, 142, 034307.	1.2	81
141	Microsolvation of anions by molecules forming CHÂ·Â·Xâˆ' hydrogen bonds. Chemical Physics, 2015, 463, 137-144.	0.9	6
142	The interplay between charge transfer, rehybridization, and atomic charges in the internal geometry of subunits in noncovalent interactions. International Journal of Quantum Chemistry, 2015, 115, 28-33.	1.0	16
143	Noncovalent interactions in dimers and trimers of SO3 and CO. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	60
144	Complexation ofnSO2molecules (n= 1, 2, 3) with formaldehyde and thioformaldehyde. Journal of Chemical Physics, 2014, 140, 034302.	1.2	40

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145	An exploration of the ozone dimer potential energy surface. Journal of Chemical Physics, 2014, 140, 244311.	1.2	8
146	Strongly bound noncovalent (SO3)n:H2CO complexes (n = 1, 2). Physical Chemistry Chemical Physics, 2014, 16, 18974-18981.	1.3	43
147	Chalcogen Bonding between Tetravalent SF₄ and Amines. Journal of Physical Chemistry A, 2014, 118, 10849-10856.	1.1	97
148	Effects of Charge and Substituent on the SÂ·Â·Â·N Chalcogen Bond. Journal of Physical Chemistry A, 2014, 118, 3183-3192.	1.1	144
149	Substituent Effects in the Noncovalent Bonding of SO₂ to Molecules Containing a Carbonyl Group. The Dominating Role of the Chalcogen Bond. Journal of Physical Chemistry A, 2014, 118, 3835-3845.	1.1	51
150	Manipulating Unconventional CH-Based Hydrogen Bonding in a Methyltransferase via Noncanonical Amino Acid Mutagenesis. ACS Chemical Biology, 2014, 9, 1692-1697.	1.6	23
151	Complexes containing CO₂and SO₂. Mixed dimers, trimers and tetramers. Physical Chemistry Chemical Physics, 2014, 16, 5142-5149.	1.3	35
152	Magnitude and Mechanism of Charge Enhancement of CHÂ·Â·O Hydrogen Bonds. Journal of Physical Chemistry A, 2013, 117, 10551-10562.	1.1	57
153	Conservation and Functional Importance of Carbonâ€“Oxygen Hydrogen Bonding in AdoMet-Dependent Methyltransferases. Journal of the American Chemical Society, 2013, 135, 15536-15548.	6.6	92
154	Sensitivity of noncovalent bonds to intermolecular separation: hydrogen, halogen, chalcogen, and pnicogen bonds. CrystEngComm, 2013, 15, 3119-3124.	1.3	109
155	The Pnicogen Bond: Its Relation to Hydrogen, Halogen, and Other Noncovalent Bonds. Accounts of Chemical Research, 2013, 46, 280-288.	7.6	524
156	Detailed comparison of the pnicogen bond with chalcogen, halogen, and hydrogen bonds. International Journal of Quantum Chemistry, 2013, 113, 1609-1620.	1.0	256
157	Can a Câ€“HÂ·Â·Â·O Interaction Be a Determinant of Conformation?. Journal of the American Chemical Society, 2012, 134, 12064-12071.	6.6	110
158	Extrapolation to the complete basis set limit for binding energies of noncovalent interactions. Computational and Theoretical Chemistry, 2012, 998, 9-13.	1.1	32
159	Evaluation of DFT methods to study reactions of benzene with OH radical. International Journal of Quantum Chemistry, 2012, 112, 1879-1886.	1.0	13
160	Substituent Effects on ClÂ·Â·Â·N, SÂ·Â·Â·N, and PÂ·Â·Â·N Noncovalent Bonds. Journal of Physical Chemistry A, 2012, 116, 3487-3497.	1.1	127
161	Contributions of Various Noncovalent Bonds to the Interaction between an Amide and Sâ€Containing Molecules. ChemPhysChem, 2012, 13, 3535-3541.	1.0	14
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