Hui-Li Xu

List of Publications by Year
in descending order

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202	5,426	81900	114465
papers	citations	39 h-index	63 g-index

203	203	203	3069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monolayer Ti₂CO₂: A Promising Candidate for NH₃ Sensor or Capturer with High Sensitivity and Selectivity. ACS Applied Materials & Interfaces, 2015, 7, 13707-13713.	8.0	524
2	The Role of Methyl Groups in the Formation of Hydrogen Bond in DMSOâ^'Methanol Mixtures. Journal of the American Chemical Society, 2006, 128, 1438-1439.	13.7	183
3	Cooperativity between the Halogen Bond and the Hydrogen Bond in H₃Nâ‹…â‹…â‹…XYâ‹…â‹…â‹…HF Complexes (X, Y=F, Cl, Br). ChemPhysChem, 2008, 9, 2265-2269.	2.1	152
4	Concerted Interaction between Pnicogen and Halogen Bonds in XClï£¿FH₂Pï£¿NH₃ (X=F, OH, CN, NC, and FCC). ChemPhysChem, 2012, 13, 1205-1212.	2.1	124
5	A Ïƒ-hole interaction with radical species as electron donors: does single-electron tetrel bonding exist?. Physical Chemistry Chemical Physics, 2014, 16, 11617-11625.	2.8	113
6	Excess Infrared Absorption Spectroscopy and its Applications in the Studies of Hydrogen Bonds in Alcohol-Containing Binary Mixtures. Applied Spectroscopy, 2008, 62, 166-170.	2.2	109
7	Competition and cooperativity between tetrel bond and chalcogen bond in complexes involving F2CX (X = Se and Te). Chemical Physics Letters, 2015, 620, 7-12.	2.6	103
8	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.	2.8	98
9	A bioinspired hybrid membrane with wettability and topology anisotropy for highly efficient fog collection. Journal of Materials Chemistry A, 2019, 7, 124-132.	10.3	93
10	Competition between hydrogen bond and halogen bond in complexes of formaldehyde with hypohalous acids. Physical Chemistry Chemical Physics, 2010, 12, 6837.	2.8	92
11	The band gap modulation of monolayer Ti₂CO₂ by strain. RSC Advances, 2015, 5, 30438-30444.	3.6	82
12	Highly selective and sensitive turn-on fluorescent sensor for detection of Al3+ based on quinoline-base Schiff base. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 195, 157-164.	3.9	82
13	Cooperativity between OHÂ·Â·Â·O and CHÂ·Â·Â·O Hydrogen Bonds Involving Dimethyl Sulfoxideâ^'H₂Oâ^'H₂O Complex. Journal of Physical Chemistry A, 2007, 111, 10166-10169.	2.5	81
14	Tetrelâ€“Hydride Interaction between XH₃F (X = C, Si, Ge, Sn) and HM (M = Li, Na, BeH, MgH). Journal of Physical Chemistry A, 2015, 119, 2217-2224.	2.5	79
15	Pnicogenâ€“Hydride Interaction between FH₂X (X = P and As) and HM (M = ZnH, BeH, MgH, Li,) Tj ETQq1 1 0.784314 rgBT	2.5	75
16	Competition of chalcogen bond, halogen bond, and hydrogen bond in SCSHOX and SeCSeHOX (X=Cl) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.5	72
17	Comparative Strengths of Tetrel, Pnicogen, Chalcogen, and Halogen Bonds and Contributing Factors. Molecules, 2018, 23, 1681.	3.8	69
18	Tetrel bond of pseudohalide anions with XH3F (X = C, Si, Ge, and Sn) and its role in SN2 reaction. Journal of Chemical Physics, 2016, 145, 224310.	3.0	68

#	Article	IF	Citations
19	Some measures for making halogen bonds stronger than hydrogen bonds in H₂CSâ€“HOX (X) Tj ETQq1 1 0.784314 rgB	2.8	66
20	Prediction and characterization of the HMgHâ‹¯LiX (X = H, OH, F, CCH, CN, and NC) complexes: a lithiumâ€“hydride lithium bond. Physical Chemistry Chemical Physics, 2009, 11, 2402.	2.8	64
21	Interplay between halogen bond and lithium bond in MCNâ€¦LiCNâ€¦XCCH (M = H, Li, and Na; X = Cl, Br, and I) complex: The enhancement of halogen bond by a lithium bond. Journal of Computational Chemistry, 2011, 32, 3296-3303.	3.3	61
22	A high performance 2-hydroxynaphthalene Schiff base fluorescent chemosensor for Al3+ and its applications in imaging of living cells and zebrafish in vivo. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 31-38.	3.9	60
23	An unconventional halogen bond with carbene as an electron donor: An ab initio study. Chemical Physics Letters, 2009, 469, 48-51.	2.6	58
24	Resveratrol Ameliorates Diabetes-Induced Cardiac Dysfunction Through AT1R-ERK/p38 MAPK Signaling Pathway. Cardiovascular Toxicology, 2016, 16, 130-137.	2.7	57
25	Cooperativity between two types of hydrogen bond in H3Câ€“HCNâ€“HCN and H3Câ€“HNCâ€“HNC complexes. Journal of Chemical Physics, 2008, 128, 154102.	3.0	56
26	Substitution, cooperative, and solvent effects on Ï€ pnicogen bonds in the FH2P and FH2As complexes. Journal of Molecular Modeling, 2012, 18, 4325-4332.	1.8	56
27	Interplay between tetrel bonding and hydrogen bonding interactions in complexes involving F2XO (X=C and Si) and HCN. Computational and Theoretical Chemistry, 2014, 1050, 51-57.	2.5	55
28	Influence of Substitution, Hybridization, and Solvent on the Properties of Câˆ™HO Single-Electron Hydrogen Bond in CH3âˆ™H2O Complex. Journal of Physical Chemistry A, 2008, 112, 5258-5263.	2.5	53
29	A dual functional turn-on non-toxic chemosensor for highly selective and sensitive visual detection of Mg²⁺ and Zn²⁺: the solvent-controlled recognition effect and bio-imaging application. Analyst, The, 2019, 144, 4024-4032.	3.5	53
30	The development of coumarin Schiff base system applied as highly selective fluorescent/colorimetric probes for Cu2+ and tumor biomarker glutathione detection. Dyes and Pigments, 2020, 175, 108156.	3.7	51
31	Cooperativity between the Dihydrogen Bond and the Nâ‹…â‹…â‹…HC Hydrogen Bond in LiHâ€“(HCN)_n Complexes. ChemPhysChem, 2008, 9, 1942-1946.	2.1	47
32	Spectroscopic and theoretical evidence for the cooperativity between red-shift hydrogen bond and blue-shift hydrogen bond in DMSO aqueous solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 211-215.	3.9	47
33	Carbene tetrel-bonded complexes. Structural Chemistry, 2017, 28, 823-831.	2.0	47
34	The Ï€â€¢Tetrel Bond and its Influence on Hydrogen Bonding and Proton Transfer. ChemPhysChem, 2018, 19, 736-743.	2.1	46
35	Regulating Function of Methyl Group in Strength of CHÂ·Â·Â·O Hydrogen Bond:â€‰ A High-Level Ab Initio Study. Journal of Physical Chemistry A, 2008, 112, 3985-3990.	2.5	45
36	SeÂ·Â·Â·N Chalcogen Bond and SeÂ·Â·Â·X Halogen Bond Involving F₂Câ•Se: Influence of Hybridization, Substitution, and Cooperativity. Journal of Physical Chemistry A, 2015, 119, 3518-3527.	2.5	45

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37	Carbon Excess C₃N: A Potential Candidate as Li-Ion Battery Material. ACS Applied Materials & Interfaces, 2018, 10, 37135-37141.	8.0	44
38	Ab Initio Study of Lithium-Bonded Complexes with Carbene as an Electron Donor. Journal of Physical Chemistry A, 2009, 113, 14156-14160.	2.5	43
39	The Prominent Enhancing Effect of the Cationâ€“Ï€ Interaction on the Halogenâ€“Hydride Halogen Bond in M¹â‹…â‹…â‹…C₆H₅Xâ‹…â‹…â‹…HM². ChemPhysChem, 2011, 12, 2289-2295.	2.1	41
40	Cooperative and Diminutive Effects of Pnicogen Bonds and Cationâ€“Ï€ Interactions. ChemPhysChem, 2014, 15, 500-506.	2.1	38
41	Comparison of Ïƒâ€Hole and Ï€â€Hole Tetrel Bonds Formed by Pyrazine and 1,4â€Dicyanobenzene: The Interplay between Anionâ€“Ï€ and Tetrel Bonds. ChemPhysChem, 2017, 18, 2442-2450.	2.1	38
42	Tetrel bonds between PySiX3 and some nitrogenated bases: Hybridization, substitution, and cooperativity. Journal of Molecular Graphics and Modelling, 2016, 65, 35-42.	2.4	36
43	Prominent Effect of Alkali Metals in Halogen-Bonded Complex of MCCBrâ‹¯NCMâ€² (M and Mâ€² = H, Li, Na, F,) Tj ETQq1 1 0.784314 rg	2.5	34
44	Complexes between hypohalous acids and phosphine derivatives. Pnicogen bond versus halogen bond versus hydrogen bond. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 271-277.	3.9	33
45	The aerogenâ€“Ï€ bonds involving Ï€ systems. Chemical Physics Letters, 2016, 651, 50-55.	2.6	33
46	Cooperative effects between Ï€-hole triel and Ï€-hole chalcogen bonds. RSC Advances, 2018, 8, 26580-26588.	3.6	33
47	Ab initio study of the cooperativity between NHÂ·Â·Â·N and NHÂ·Â·Â·C hydrogen bonds in H3Nâ€“HNCâ€“HNC complex. Theoretical Chemistry Accounts, 2010, 127, 303-309.	1.4	32
48	Competition and cooperativity between hydrogen bond and halogen bond in HNCâ‹¯(HOBr)n and (HNC)nâ‹¯HOBr (n=1 and 2) systems. Computational and Theoretical Chemistry, 2011, 963, 417-421.	2.5	31
49	Prediction and characterization of a chalcogenâ€“hydride interaction with metal hybrids as an electron donor in F2CSâ€“HM and F2CSeâ€“HM (M = Li, Na, BeH, MgH, MgCH3) complexes. Physical Chemistry Chemical Physics, 2012, 14, 3025.	2.8	31
50	Highly selective and sensitive chemosensor for Al(III) based on isoquinoline Schiff base. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118754.	3.9	31
51	Is Ï€ halogen bonding or lone pairâ‹¯Ï€ interaction formed between borazine and some halogenated compounds?. Physical Chemistry Chemical Physics, 2014, 16, 159-165.	2.8	30
52	Surprising enhancing effect of methyl group on the strength of Oâ‹¯XF and Sâ‹¯XF (X=Cl and Br) halogen bonds. Journal of Chemical Physics, 2010, 133, 114303.	3.0	29
53	Halogen bonds with N-heterocyclic carbenes as halogen acceptors: a partially covalent character. Molecular Physics, 2014, 112, 3024-3032.	1.7	29
54	Theoretical study of the cooperative effects between the triel bond and the pnicogen bond in BF3Â·Â·Â·NCXH2Â·Â·Â·Y (X = P, As, Sb; Y = H2O, NH3) complexes. Journal of Molecular Modeling, 2016, 22, 10.	1.8	29

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55	Cooperative and substitution effects in enhancing strengths of halogen bonds in FClâ‹¯CNX complexes. Journal of Chemical Physics, 2012, 137, 084314.	3.0	28
56	Competition of hydrogen, halogen, and pnicogen bonds in the complexes of HArF with XH2P (X=F, Cl,) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.9	28
57	Modulating the strength of tetrel bonding through beryllium bonding. Journal of Molecular Modeling, 2016, 22, 192.	1.8	28
58	Comparison of hydrogen, halogen, and tetrel bonds in the complexes of HArF with YH₃X (X = halogen, Y = C and Si). RSC Advances, 2016, 6, 19136-19143.	3.6	28
59	Comparison of Ïƒâ€/Ïâ€Hole Tetrel Bonds between TH₃F/F₂TO and H₂CX (X=O, S, Se). ChemPhysChem, 2019, 20, 627-635.	2.1	28
60	Tuning the Competition between Hydrogen and Tetrel Bonds by a Magnesium Bond. ChemPhysChem, 2020, 21, 212-219.	2.1	28
61	Carbene triel bonds between TrR 3 (Trâ€‰=â€‰B, Al) and Nâ€heterocyclic carbenes. International Journal of Quantum Chemistry, 2019, 119, e25867.	2.0	27
62	Influence of Hybridization and Cooperativity on the Properties of Au-Bonding Interaction: Comparison with Hydrogen Bonds. Journal of Physical Chemistry A, 2011, 115, 2853-2858.	2.5	26
63	Interplay between the Ïƒ-tetrel bond and Ïƒ-halogen bond in PhSiF₃â‹¯4-iodopyridineâ‹¯N-base. RSC Advances, 2017, 7, 21713-21720.	3.6	26
64	Tetrel Bond between 6-OTX3-Fulvene and NH3: Substituents and Aromaticity. Molecules, 2019, 24, 10.	3.8	26
65	A highly selective colorimetric and fluorescent probe for quantitative detection of Cu2+/Co2+: The unique ON-OFF-ON fluorimetric detection strategy and applications in living cells/zebrafish. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117763.	3.9	26
66	A dual-functional fluorescent probe for sequential determination of Cu2+/S2âˆ’ and its applications in biological systems. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118797.	3.9	26
67	A novel hydrazide Schiff base self-assembled nanoprobe for selective detection of human serum albumin and its applications in renal disease surveillance. Journal of Materials Chemistry B, 2020, 8, 8346-8355.	5.8	26
68	A novel double target fluorescence probe for Al3+/Mg2+ detection with distinctively different responses and its applications in cell imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120067.	3.9	26
69	A chromone hydrazide Schiff base fluorescence probe with high selectivity and sensitivity for the detection and discrimination of human serum albumin (HSA) and bovine serum albumin (BSA). Journal of Photochemistry and Photobiology A: Chemistry, 2022, 422, 113576.	3.9	26
70	The dual role of pnicogen as Lewis acid and base and the unexpected interplay between the pnicogen bond and coordination interaction in H₃Nâ‹¯FH₂Xâ‹¯MCN (X = P and As; M = Cu, Ag,) Tj ETQq0 0 0 rgBT /Over	2.8	26
71	Synergistic and diminutive effects between triel bond and regium bond: Attractive interactions between Ï€â€hole and Ïƒâ€hole. Applied Organometallic Chemistry, 2019, 33, e4806.	3.5	25
72	Theoretical study on the cooperativity of hydrogen bonds in (HNC)2â‹¯HF complexes. Computational and Theoretical Chemistry, 2009, 896, 112-115.	1.5	24

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73	The single-electron hydrogen, lithium, and halogen bonds with HBe, H2B, and H3C radicals as the electron donor: an ab initio study. Structural Chemistry, 2012, 23, 411-416.	2.0	24
74	Competition between hydrogen bonds and halogen bonds in complexes of formamidine and hypohalous acids. Journal of Molecular Modeling, 2013, 19, 4529-4535.	1.8	24
75	A new interaction mechanism of LiNH2 with MgH2: magnesium bond. Journal of Molecular Modeling, 2013, 19, 247-253.	1.8	24
76	Enhancement of Iodineâ€“Hydride Interaction by Substitution and Cooperative Effects in NCXâ€“NCIâ€“HMY Complexes. ChemPhysChem, 2012, 13, 3997-4002.	2.1	23
77	Abnormal synergistic effects between Lewis acidâ€“base interaction and halogen bond in F₃BÂ·Â·Â·NCXÂ·Â·Â·NCM. Molecular Physics, 2015, 113, 3809-3814.	1.7	23
78	Nonadditivity of methyl group in singleâ€electron hydrogen bond of methyl radicalâ€water complex. International Journal of Quantum Chemistry, 2009, 109, 605-611.	2.0	22
79	Prediction and characterization of HCCHâ‹…â‹…â‹…AuX (X = OH, F, Cl, Br, CH3, CCH, CN, and NC) complexes: A Ï€ Au-bond. Journal of Chemical Physics, 2011, 135, 074304.	3.0	22
80	The structure, properties, and nature of HArFâ€HOX (X = F, Cl, Br) complex: An ab initio study and an unusual short hydrogen bond. Journal of Computational Chemistry, 2011, 32, 2432-2440.	3.3	22
81	Comparison for Ïƒ-hole and Ï€-hole tetrel-bonded complexes involving cyanoacetaldehyde. Molecular Physics, 2018, 116, 222-230.	1.7	22
82	Competition between dihydrogen bond and beryllium bond in complexes between HBeH and HArF: A huge blue shift of distant HAr stretch. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 90, 135-140.	3.9	21
83	Prominent enhancing effects of substituents on the strength of Ï€Â·Â·Â·Ïƒâ€hole tetrel bond. International Journal of Quantum Chemistry, 2017, 117, e25448.	2.0	21
84	The effect of methyl group on the cooperativity between three types of hydrogen bond: Oï£¿HÂ·Â·Â·O, Cï£¿HÂ·Â·Â·O, and Oï£¿HÂ·Â·Â·Ï€. International Journal of Quantum Chemistry, 2008, 108, 558-566.	2.0	20
85	Regulation of coin metal substituents and cooperativity on the strength and nature of tetrel bonds. RSC Advances, 2017, 7, 46321-46328.	3.6	20
86	Comparison of tetrel bonds and halogen bonds in complexes of DMSO with ZF₃X (Z = C) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	19
87	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.	2.0	19
88	How do organic gold compounds and organic halogen molecules interact? Comparison with hydrogen bonds. RSC Advances, 2015, 5, 12488-12497.	3.6	18
89	Novel pnicogen bonding interactions with silylene as an electron donor: covalency, unusual substituent effects and new mechanisms. Physical Chemistry Chemical Physics, 2015, 17, 9153-9160.	2.8	18
90	Comparison of hydrogen and halogen bonds between dimethyl sulfoxide and hypohalous acid: competition and cooperativity. Molecular Physics, 2017, 115, 1614-1623.	1.7	17

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91	Synergistic and Diminutive Effects between Regium and Aerogen Bonds. ChemPhysChem, 2020, 21, 2426-2431.	2.1	17
92	Is the Fourier Transform Infrared Free-OH Band of t-Butanol Only from Free OHs? Case Studies on the Binary Systems of the Alcohol with CCl₄ and CHCl₃. Journal of Physical Chemistry A, 2020, 124, 6177-6185.	2.5	17
93	Large blue shift of the Hâ€“Ar stretching frequency in hydrogen- and halogen-bonded complexes of HArF with dihalogen molecules. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 506-511.	3.9	16
94	What is the role of defects in single-walled carbon nanotubes for nonlinear optical property?. Journal of Materials Chemistry, 2011, 21, 8905.	6.7	16
95	Influence of the protonation of pyridine nitrogen on pnicogen bonding: competition and cooperativity. Physical Chemistry Chemical Physics, 2016, 18, 11348-11356.	2.8	16
96	Comparison for Ïƒ-hole and Ï€-hole tetrel-bonded complexes involving F 2 C CFTF 3 (T C, Si, and Ge): Substitution, hybridization, and solvation effects. Journal of Fluorine Chemistry, 2018, 207, 38-44.	1.7	16
97	Comparison between Hydrogen and Halogen Bonds in Complexes of 6â€OXâ€Fulvene with Pnicogen and Chalcogen Electron Donors. ChemPhysChem, 2019, 20, 1978-1984.	2.1	16
98	A new unconventional halogen bond Cï£¿XÂ·Â·Â·Hï£¿M between HCCX (X = Cl and Br) and HMH (M = Be and) Tj ETQq0 0 0 rgBT /Overlo	3.3	15
99	Competition between Ïƒ-hole pnicogen bond and Ï€-hole tetrel bond in complexes of CF₂=CFZH₂ (Zâ€‰=â€‰P, As, and Sb). Molecular Physics, 2019, 117, 251-259.	1.7	15
100	Bioinspired surface with special wettability for liquid transportation and separation. Sustainable Materials and Technologies, 2020, 25, e00175.	3.3	15
101	The Ï€â€hole tetrel bond between <scp>X₂TO</scp> and <scp>CO₂</scp>: Substituent effects and its potential adsorptivity for <scp>CO₂</scp>. International Journal of Quantum Chemistry, 2020, 120, e26251.	2.0	15
102	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.	2.1	15
103	Rare gas atomic number dependence of the hyperpolarizability for rare gas inserted fluorohydrides, HRgF (Rg=He, Ar, and Kr). Journal of Chemical Physics, 2009, 131, 044308.	3.0	14
104	Interplay between Metalâ‹…â‹…â‹…Ï€ Interactions and Hydrogen Bonds: Some Unusual Synergetic Effects of Coinage Metals and Substituents. ChemPhysChem, 2013, 14, 3341-3347.	2.1	14
105	Influence of substituents on the nature of metalâ‹¯Ï€ interaction and its cooperativity with halogen bond. Journal of Chemical Physics, 2015, 143, 054308.	3.0	14
106	Trielâ€“hydride triel bond between ZX₃ (Z = B and Al; X = H and Me) and THMe₃ (T) Tj ETQq0 0 0 rgBT /Overlo	3.5	14
107	Coinage-Metal Bond between [1.1.1]Propellane and M2/MCl/MCH3 (M = Cu, Ag, and Au): Cooperativity and Substituents. Molecules, 2019, 24, 2601.	3.8	14
108	Novel 2â€hydroxynaphthaleneâ€based fluorescent turnâ€on sensor for highly sensitive and selective detection of Al³⁺ and its application in imaging in vitro and in vivo. Applied Organometallic Chemistry, 2020, 34, e5812.	3.5	13

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109	Solvent effect on the role of methyl groups in formation of OÂ·Â·Â·HO hydrogen bond in dimethyl etherâ€“methanol complex. Computational and Theoretical Chemistry, 2008, 862, 74-79.	1.5	11
110	Partially covalent nature and substitution non-additivity of Au-bonding in H2Oâ€“AuCH3 complex. Chemical Physics Letters, 2010, 498, 259-262.	2.6	11
111	Effect of substitution and cooperativity on the Clâ€“F blue shift in single-electron halogen-bonded H₃C Â·Â·Â· ClF complex. Molecular Physics, 2010, 108, 2021-2026.	1.7	11
112	Theoretical study on germylenoid H2GeFBeF. Structural Chemistry, 2012, 23, 867-871.	2.0	11
113	Non-additivity between substitution and cooperative effects in enhancing hydrogen bonds. Journal of Chemical Physics, 2014, 141, 244305.	3.0	11
114	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.	2.1	11
115	Coinage metal dimers as the noncovalent interaction acceptors: study of the Ïƒ-lump interactions. Physical Chemistry Chemical Physics, 2019, 21, 21152-21161.	2.8	11
116	Comparison of triel bonds with different chalcogen electron donors: Its dependence on triel donor and methyl substitution. International Journal of Quantum Chemistry, 2020, 120, e26046.	2.0	11
117	Modulation engineering of in situ cathodic activation of FeP_x based on W-incorporation for the hydrogen evolution reaction. Nanoscale, 2020, 12, 12364-12373.	5.6	11
118	Xeâ‹¯chalcogen aerogen bond. Effect of substituents and size of chalcogen atom. Physical Chemistry Chemical Physics, 2020, 22, 4115-4121.	2.8	11
119	THEORETICAL INVESTIGATION ON THE INSERTION REACTIONS OF THE GERMYLENOIDH₂GeLiFWITHRH(R=Cl,SHP Journal of Theoretical and Computational Chemistry, 2013, 12, 1350003.	1.3	10
120	Substitution reactions of H2GeFBeF with RH (R = F, OH, NH2): A theoretical study. Russian Journal of Physical Chemistry A, 2014, 88, 1097-1102.	0.6	10
121	Competitive interaction between halogen and hydrogen bonds in NH₂Brâ€HOX (X = F, Cl, and) Tj ETQq1 1 0.784314 rgBT	2.0	9
122	Interplay between Cationâ€“Ï€ and Coinageâ€Metalâ€“Oxygen Interactions: An Ab Initio Study and Cambridge Structural Database Survey. ChemPhysChem, 2015, 16, 1008-1016.	2.1	9
123	Competition between halogen bond and hydrogen bond in complexes of superalkali Li₃S and halogenated acetylene XCCH (Xâ€‰=â€‰F, Cl, Br, and I). International Journal of Quantum Chemistry, 2015, 115, 99-105.	2.0	9
124	Dinuclear first-row transition metalâ€“(C8Me6)2complexes: metalâ€“metal and metalâ€“ligand bonds determined by the d electron configuration of the metal atom. New Journal of Chemistry, 2016, 40, 1988-1996.	2.8	9
125	Abnormal Tetrel Bonds between Formamidine and TH₃F: Substituent Effects. ChemistrySelect, 2018, 3, 2842-2849.	1.5	9
126	Comparison of halide donators based on piÂ·Â·Â·M (Mâ€‰=â€‰Cu, Ag, Au), piÂ·Â·Â·H and piÂ·Â·Â·halogen bonds. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	9

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127	The ability of a tetrel bond to transition a neutral amino acid into a zwitterion. Chemical Physics Letters, 2019, 731, 136584.	2.6	9
128	Influence of cooperativity on the frequency shift of the Arâ€“H stretch vibration in HArF complexes. Molecular Physics, 2013, 111, 497-504.	1.7	8
129	Beryllium decorated armchair BC2N nanoribbons: coexistence of planar tetracoordinate carbon and nitrogen moieties. RSC Advances, 2015, 5, 73945-73950.	3.6	8
130	Intramolecular Siâ‹…â‹…â‹…O Tetrel Bonding: Tuning of Substituents and Cooperativity. ChemistrySelect, 2017, 2, 11104-11112.	1.5	8
131	Dual function of the boron center of BH(CO)2/BH(N2)2 in halogen- and triel-bonded complexes with hypervalent halogens. Journal of Molecular Graphics and Modelling, 2018, 84, 118-124.	2.4	8
132	Reliable Comparison of Pnicogen, Chalcogen, and Halogen Bonds in Complexes of 6-OXF2-Fulvene (X =) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	8
133	The structure, properties, and nature of HArFâ€“benzene complex: Redshift and blueshift of Arâ€“H stretch frequency and rare gas atomic number dependence of hydrogen bonds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 84, 68-73.	3.9	7
134	Theoretical study on the insertion reactions of the germylenoid H2GeClMgCl with RH (R = F, OH, NH2). Russian Journal of Physical Chemistry A, 2012, 86, 1969-1973.	0.6	7
135	The structure, properties, and nature of Câ€“Brâ‹¯F halogen bond involving HArF: Substitution, hybridization, and nonadditivity. Journal of Fluorine Chemistry, 2012, 135, 207-212.	1.7	7
136	Effect of superalkali substituents on the strengths and properties of hydrogen and halogen bonds. Journal of Molecular Modeling, 2013, 19, 1311-1318.	1.8	7
137	A quantum chemical study of the structures, stability, and spectroscopy of halogen- and hydrogen-boned complexes between cyanoacetaldehyde and hypochlorous acids. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 157-163.	3.9	7
138	Influence of F and Se substitution on the structures, stabilities and nature of the complexes between F₂CSe and HOX (X = F, Cl, Br, and I). RSC Advances, 2015, 5, 52667-52675.	3.6	7
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