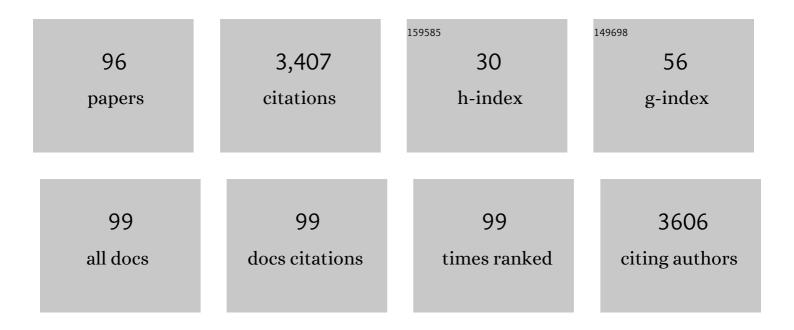
## Weizhou Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Halogen bonds in the crystal structure of 4,3′:5′,4″-terpyridine — 1,3-diiodotetrafluorobenzene (1/1), C <sub>21</sub> H <sub>11</sub> F <sub>4</sub> I <sub>2</sub> N <sub>3</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, 237, 161-163.	0.3	0
2	The Bifurcated Ïf-Hole···Ïf-Hole Stacking Interactions. Molecules, 2022, 27, 1252.	3.8	2
3	Chalcogen bonds in the crystal structure of 4,7-dibromo-2,1,3-benzoselenadiazole, C <sub>6</sub> H <sub>2</sub> Br <sub>2</sub> N <sub>2</sub> Se. Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, 237, 169-171.	0.3	0
4	Origin of the unexpected attractive interactions between positive σ-holes and positive π-lumps. Computational and Theoretical Chemistry, 2022, 1213, 113736.	2.5	1
5	The Existence of a N→C Dative Bond in the C 60 –Piperidine Complex. Angewandte Chemie, 2021, 133, 1970-1978.	2.0	4
6	The Existence of a N→C Dative Bond in the C <sub>60</sub> –Piperidine Complex. Angewandte Chemie - International Edition, 2021, 60, 1942-1950.	13.8	15
7	Theoretical rationale for the role of the strong halogen bond in the design and synthesis of organic semiconductor materials. Computational and Theoretical Chemistry, 2021, 1194, 113074.	2.5	7
8	Effects of functional groups for CO2 capture using metal organic frameworks. Frontiers of Chemical Science and Engineering, 2021, 15, 437-449.	4.4	26
9	Structure-directed formation of the dative/covalent bonds in complexes with C <sub>70</sub> â <piperidine. 2021,="" 23,="" 4365-4375.<="" chemical="" chemistry="" physical="" physics,="" td=""><td>2.8</td><td>9</td></piperidine.>	2.8	9
10	Performance limit of monolayer MoSi <sub>2</sub> N <sub>4</sub> transistors. Journal of Materials Chemistry C, 2021, 9, 14683-14698.	5.5	32
11	Addition Reaction between Piperidine and C <sub>60</sub> to Form 1,4-Disubstituted C <sub>60</sub> Proceeds through van der Waals and Dative Bond Complexes: Theoretical and Experimental Study. Journal of the American Chemical Society, 2021, 143, 10930-10939.	13.7	6
12	The Face-to-Face σ-Holeâ<⁻σ-Hole Stacking Interactions: Structures, Energies, and Nature. Crystals, 2021, 11, 877.	2.2	2
13	A Robust Supramolecular Heterosynthon Assembled by a Hydrogen Bond and a Chalcogen Bond. Crystals, 2021, 11, 1309.	2.2	6
14	Halogen bonding in room-temperature phosphorescent materials. Coordination Chemistry Reviews, 2020, 404, 213107.	18.8	106
15	Determination of cis-diol-containing flavonoids in real samples using boronate affinity quantum dots coated with imprinted silica based on controllable oriented surface imprinting approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117542.	3.9	26
16	The σ-holeâ‹Ïƒ-hole stacking interaction: An unrecognized type of noncovalent interaction. Journal of Chemical Physics, 2020, 153, 214302.	3.0	14
17	Unexpected Sandwiched-Layer Structure of the Cocrystal Formed by Hexamethylbenzene with 1,3-Diiodotetrafluorobenzene: A Combined Theoretical and Crystallographic Study. Crystals, 2020, 10, 379.	2.2	4
18	Computational screening of heterocycle decorations in metal-organic frameworks for efficient C2/C1 adsorption and separation. Fuel, 2020, 279, 118431.	6.4	6

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19	Toward a less costly but accurate calculation of the CCSD(T)/CBS noncovalent interaction energy. Journal of Computational Chemistry, 2020, 41, 1252-1260.	3.3	11
20	Performance Limit of Monolayer WSe <sub>2</sub> Transistors; Significantly Outperform Their MoS <sub>2</sub> Counterpart. ACS Applied Materials & Interfaces, 2020, 12, 20633-20644.	8.0	39
21	Zinc 2- <i>N</i> -methyl N-confused porphyrin: an efficient catalyst for the conversion of CO <sub>2</sub> into cyclic carbonates. Catalysis Science and Technology, 2019, 9, 4255-4261.	4.1	24
22	Determination and Correlation of Solubilities of 1,3,5-Trifluoro-2,4,6-triiodobenzene in Different Solvents from 289.25 to 332.15 K. Journal of Chemical & Engineering Data, 2019, 64, 4306-4313.	1.9	2
23	Metal–Organic Frameworks Grafted by Univariate and Multivariate Heterocycles for Enhancing CO2 Capture: A Molecular Simulation Study. Industrial & Engineering Chemistry Research, 2019, 58, 2195-2205.	3.7	17
24	Noncovalent Interactions between 1,3,5-Trifluoro-2,4,6-triiodobenzene and a Series of 1,10-Phenanthroline Derivatives: A Combined Theoretical and Experimental Study. Crystals, 2019, 9, 140.	2.2	5
25	Halogen bonds in the crystal structure of 5-bromo-3,4′-bipyridine – 1,4-diiodotetrafluorobenzene (2/1), C <sub>26</sub> H <sub>14</sub> Br <sub>2</sub> F <sub>4</sub> I <sub>2</sub> N <sub>4</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 1187-1188.	0.3	1
26	Halogen bonds in the crystal structure of 4,3:5,4-terpyridine – 1,4-diiodotetrafluorobenzene (1/1), C <sub>21</sub> H <sub>11</sub> F <sub>4</sub> I <sub>2</sub> N <sub>3</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 935-937.	0.3	2
27	Tetrel bonding on graphene. Computational and Theoretical Chemistry, 2019, 1147, 8-12.	2.5	21
28	Intermolecular and very strong intramolecular C–Seâ‹⁻O/N chalcogen bonds in nitrophenyl selenocyanate crystals. Physical Chemistry Chemical Physics, 2018, 20, 5227-5234.	2.8	28
29	Supramolecular Interactions of Fullerene C <sub>60</sub> with 1,3,5â€Trifluoroâ€2,4,6â€triiodobenzene: A Combined Theoretical and Experimental Study. ChemPlusChem, 2018, 83, 470-477.	2.8	4
30	Ab Initio Study of Gas Adsorption in Metal–Organic Frameworks Modified by Lithium: The Significant Role of Li-Containing Functional Groups. Journal of Physical Chemistry C, 2018, 122, 18395-18404.	3.1	11
31	Pseudo-Bifurcated Chalcogen Bond in Crystal Engineering. Crystals, 2018, 8, 163.	2.2	14
32	Sub-5 nm Monolayer Arsenene and Antimonene Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22363-22371.	8.0	77
33	Solubility Measurement and the Correlation of 1-Naphthaleneacetic Acid in Pure and Methanol + Water Binary Solvents from <i>T</i> = (278.25 to 323.55) K. Journal of Chemical & Engineering Data, 2017, 62, 1292-1301.	1.9	24
34	Accurate calculations of the noncovalent systems with flat potential energy surfaces: Naphthalene dimer and azulene dimer. Computational and Theoretical Chemistry, 2017, 1112, 52-60.	2.5	4
35	Weakening and Leveling Effect of Solvent Polarity on Halogen Bond Strength of Diiodoperfluoroalkane with Halide. Journal of Solution Chemistry, 2017, 46, 1092-1103.	1.2	4
36	Crystal structure of 2,9-dibromo-1,10-phenanthroline, C12H6Br2N2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 441-442.	0.3	0

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37	Structures, mobility and electronic properties of point defects in arsenene, antimonene and an antimony arsenide alloy. Journal of Materials Chemistry C, 2017, 5, 4159-4166.	5.5	72
38	Highly accurate benchmark calculations of the interaction energies in the complexes C <sub>6</sub> H <sub>6</sub> AAAAC <sub>6</sub> X <sub>6</sub> (X = F, Cl, Br, and I). International Ju of Quantum Chemistry, 2017, 117, e25345.	ozuonal	24
39	Interactions between haloperfluorobenzenes and fluoranthene in luminescent cocrystals from ï€-holeâ<ï€ to ïƒ-holeâ<ï€ bonds. CrystEngComm, 2017, 19, 5058-5067.	2.6	40
40	The nature of the noncovalent interactions between fullerene C60 and aromatic hydrocarbons. Computational and Theoretical Chemistry, 2017, 1122, 34-39.	2.5	12
41	Crystal structure of halogen-bonded 2-chloro-1,10-phenanthroline—1,4-diiodotetrafluorobenzene (2/1), C <sub>30</sub> H <sub>14</sub> Cl <sub>2</sub> F <sub>4</sub> I <sub>2</sub> N <sub>4</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 323-324.	0.3	2
42	Halogen bonds and π–π interactions in the crystal structure of 1,3,5-trifluoro-2,4,6-triiodobenzene– <i>N</i> , <i>N</i> -dimethylformamide (1/1), C <sub>9</sub> H <sub>7</sub> F <sub>3</sub> 3NO. Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 937-938.	0.3	1
43	The Nature of the Noncovalent Interactions between Benzene and C <sub>60</sub> Fullerene. Journal of Physical Chemistry A, 2016, 120, 5766-5772.	2.5	41
44	σ-Hole Bond vs π-Hole Bond: A Comparison Based on Halogen Bond. Chemical Reviews, 2016, 116, 5072-5104.	47.7	487
45	Synthesis, Structure, and Photophysical Properties of Two Four-Coordinate Cu <sup>I</sup> –NHC Complexes with Efficient Delayed Fluorescence. Inorganic Chemistry, 2016, 55, 2157-2164.	4.0	70
46	The benzeneâ∂naphthalene complex: A more challenging system than the benzene dimer for newly developed computational methods. Journal of Chemical Physics, 2015, 143, 114312.	3.0	24
47	Benchmark calculations of the adsorption of aromatic molecules on graphene. Journal of Computational Chemistry, 2015, 36, 1763-1771.	3.3	23
48	Determination and Correlation of Solubilities of 2-Isopropylthioxanthone (ITX) in Seven Different Solvents from (299.15 to 329.85) K. Journal of Chemical & Engineering Data, 2015, 60, 941-946.	1.9	13
49	Structural study on four co-crystals of N-containing heteroaromatics with iodofluorobenzene. Chemical Research in Chinese Universities, 2015, 31, 84-90.	2.6	2
50	Strength order and nature of the π-hole bond of cyanuric chloride and 1,3,5-triazine with halide. Physical Chemistry Chemical Physics, 2015, 17, 20636-20646.	2.8	9
51	Phosphorescent π-Hole··΀ Bonding Cocrystals of Pyrene with Halo-perfluorobenzenes (F, Cl, Br, I). Crystal Growth and Design, 2015, 15, 4938-4945.	3.0	62
52	On the nature of the stacking interaction between two graphene layers. Chemical Physics Letters, 2015, 620, 46-49.	2.6	9
53	Noncovalent Ï€â‹â‹ï€ interaction between graphene and aromatic molecule: Structure, energy, and nature. Journal of Chemical Physics, 2014, 140, 094302.	3.0	83
54	The nature of the lâ<ī interactions and a comparative study with the nature of the Ï€â<Ï€ interactions. Computational and Theoretical Chemistry, 2014, 1030, 1-8.	2.5	10

#	ARTICLE	IF	CITATIONS
55	Substituent effects in the Ï€â<ï€ interaction between graphene and benzene: An indication for the noncovalent functionalization of graphene. Computational and Theoretical Chemistry, 2014, 1046, 64-69.	2.5	19
56	Unexpected strong stacking interactions between the homogeneous dimers of C6FxI(6â^'x) (x=0, 1, 2, 3, 4) Tj ET	Qq0_0 0 r	gBT_/Overlock
57	A Twoâ€Step Sequence to Ethyl αâ€Fluorocyclopropanecarboxylates Through MIRC Reaction of Ethyl Dichloroacetate and Highly Regioselective Fluorination. European Journal of Organic Chemistry, 2013, 2013, 7372-7381.	2.4	39
58	Improper halogen bond in the crystal structure. CrystEngComm, 2013, 15, 3093.	2.6	12
59	Structural competition between Ï€â<ï€ interactions and halogen bonds: a crystallographic study. CrystEngComm, 2013, 15, 769-774.	2.6	20
60	ASSESSMENT OF THE PERFORMANCE OF THE M05-CLASS AND M06-CLASS FUNCTIONALS FOR THE STRUCTURE AND GEOMETRY OF THE HYDROGEN-BONDED AND HALOGEN-BONDED COMPLEXES. Journal of Theoretical and Computational Chemistry, 2012, 11, 1165-1173.	1.8	12
61	Communication: Competition between <i>Ï€</i> â<⁻ <i>Ï€</i> interaction and halogen bond in solution: A combined 13C NMR and density functional theory study. Journal of Chemical Physics, 2012, 136, 141101.	3.0	33
62	The π··Â-Ï€ Stacking Interactions between Homogeneous Dimers of C6FxI(6–x) (x = 0, 1, 2, 3, 4, and 5): A Comparative Study with the Halogen Bond. Journal of Physical Chemistry A, 2012, 116, 12486-12491.	2.5	21
63	Effect of carboxylic acid on micelles of a neutral amphiphilic dendro-calix[4]arene. Organic and Biomolecular Chemistry, 2012, 10, 729-735.	2.8	18
64	Thioformyl chloride dimer: An excellent model system for the assessment of new computational methods. Computational and Theoretical Chemistry, 2012, 983, 83-87.	2.5	2
65	Syntheses, Structures, Luminescence, and Magnetic Properties of One-dimensional Lanthanide Coordination Polymers with a Rigid 2,2′-Bipyridine-3,3′,6,6′-tetracarboxylic Acid Ligand. Inorganic Chemistry, 2012, 51, 2170-2177.	4.0	64
66	Novel pyrene derivatives: Synthesis, properties and highly efficient non-doped deep-blue electroluminescent device. Dyes and Pigments, 2012, 92, 732-736.	3.7	35
67	Structural Competition between Halogen Bonds and Loneâ€Pairâ‹â‹â‹ï€ Interactions in Solution. ChemPhysChem, 2012, 13, 1411-1414.	2.1	34
68	A new class of halogen bonds that avoids the $i_f$ -hole. Chemical Physics Letters, 2012, 532, 27-30.	2.6	31
69	On the correlation between bond-length change and vibrational frequency shift in halogen-bonded complexes. Journal of Chemical Physics, 2011, 134, 224303.	3.0	32
70	Halogen Bond Involving Hypervalent Halogen: CSD Search and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 9294-9299.	2.5	55
71	Symmetrical Bifurcated Halogen Bond: Design and Synthesis. Crystal Growth and Design, 2011, 11, 3622-3628.	3.0	74

<sup>72</sup>Hydrogen bond and halogen bond inside the carbon nanotube. Journal of Chemical Physics, 2011, 134,<br/>054317.3.018

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73	Highly efficient undoped deep-blue electroluminescent device based on a novel pyrene derivative. Solid-State Electronics, 2010, 54, 524-526.	1.4	12
74	Prolylprolinol atalyzed Asymmetric Michael Addition of Aliphatic Aldehydes to Nitroalkenes. Advanced Synthesis and Catalysis, 2010, 352, 644-650.	4.3	45
75	A theoretical study of the atomic hydrogen binding on small Ag Cu (n+m⩽ 5) clusters. Computational and Theoretical Chemistry, 2010, 959, 75-79.	1.5	10
76	The nature of the bond-length change upon molecule complexation. Collection of Czechoslovak Chemical Communications, 2010, 75, 243-256.	1.0	7
77	On the Difference of the Properties between the Blue-Shifting Halogen Bond and the Blue-Shifting Hydrogen Bond. Journal of Physical Chemistry A, 2010, 114, 7257-7260.	2.5	47
78	The bifurcate chalcogen bond: Some theoretical observations. Computational and Theoretical Chemistry, 2009, 916, 135-138.	1.5	16
79	Chalcogen Bond: A Sister Noncovalent Bond to Halogen Bond. Journal of Physical Chemistry A, 2009, 113, 8132-8135.	2.5	489
80	Theoretical Study on the Complexes of Benzene with Isoelectronic Nitrogen ontaining Heterocycles. ChemPhysChem, 2008, 9, 1003-1009.	2.1	64
81	Origin of the Xâ^'Hal (Hal = Cl, Br) Bond-Length Change in the Halogen-Bonded Complexes. Journal of Physical Chemistry A, 2008, 112, 4114-4119.	2.5	115
82	Application of Berlin's Theorem to Bond-Length Changes in Isolated Molecules and Red- and Blue-Shifting H-Bonded Clusters. Collection of Czechoslovak Chemical Communications, 2008, 73, 862-872.	1.0	10
83	Cĩ£¿H Stretching Vibrational Shift of Benzene Dimer: Consistency of Experiment and Calculation. ChemPhysChem, 2007, 8, 2107-2111.	2.1	67
84	Method-dependent relative stability of hydrogen bonded and π–π stacked structures of the formic acid tetramer. Chemical Physics Letters, 2005, 402, 54-56.	2.6	9
85	Self-curl and self-assembly of boric acid clusters. Chemical Physics Letters, 2005, 405, 425-428.	2.6	16
86	Unconventional interaction in N(P)-related systems. Chemical Physics Letters, 2005, 411, 439-444.	2.6	14
87	SN2-like Reaction in Hydrogen-Bonded Complexes:  A Theoretical Study. Journal of Physical Chemistry A, 2005, 109, 9353-9355.	2.5	1
88	Prediction of a Family of Cage-shaped Boric Acid Clusters. Journal of Physical Chemistry B, 2005, 109, 8562-8564.	2.6	17
89	Theoretical Study on the Bromomethaneâ^'Water 1:2 Complexes. Journal of Physical Chemistry A, 2005, 109, 8035-8040.	2.5	40
90	Theoretical Study of 1,3,4,6,7,9,9b-Heptaazaphenalene and Its Ten Derivatives. Journal of Physical Chemistry A, 2004, 108, 97-106.	2.5	46

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91	Theoretical Study on the Blueshifting Halogen Bond. Journal of Physical Chemistry A, 2004, 108, 1799-1805.	2.5	186
92	Hyperconjugation versus intramolecular hydrogen bond: origin of the conformational preference of gaseous glycine. Chemical Physics Letters, 2003, 370, 147-153.	2.6	26
93	An ab initio study of P–Hâ∢P interactions using the PH3â∢PH3 model complex. Computational and Theoretical Chemistry, 2003, 625, 25-30.	1.5	9
94	Some theoretical observations on the 1:1 glycine zwitterion–water complex. Computational and Theoretical Chemistry, 2003, 626, 127-132.	1.5	55
95	Effect of CP-corrected gradient optimization on the water-radical (anion) dimmer hypersurface. Computational and Theoretical Chemistry, 2003, 631, 171-180.	1.5	3
96	The 1:1 glycine–water complex: some theoretical observations. Computational and Theoretical Chemistry, 2002, 618, 235-244.	1.5	34