Gang Feng

List of Publications by Year
in descending order

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112	1,514	331642	434170
papers	citations	21	31
		h-index	g-index

115	115	115	841
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoelectron Spectroscopy and Density Functional Calculations of VGe_n^{â€“} (n = 3â€“12) Clusters. Journal of Physical Chemistry C, 2015, 119, 11048-11055.	3.1	63
2	The Halogen Bond and Internal Dynamics in the Molecular Complex of CF₃Cl and H₂O. Angewandte Chemie - International Edition, 2011, 50, 7807-7810.	13.8	57
3	Loneâ€Pairâ‹…â‹…â‹…Ï€ Interaction: A Rotational Study of the Chlorotrifluoroethyleneâ€“Water Adduct. Angewandte Chemie - International Edition, 2013, 52, 11888-11891.	13.8	49
4	Structural and Electronic Properties of AuSi_n^{â€“} (n = 4â€“12) Clusters: Photoelectron Spectroscopy and Ab Initio Calculations. Journal of Physical Chemistry C, 2016, 120, 25628-25637.	3.1	49
5	Proton Transfer in Homodimers of Carboxylic Acids: The Rotational Spectrum of the Dimer of Acrylic Acid. Journal of the American Chemical Society, 2012, 134, 19281-19286.	13.7	46
6	On the Clâ‹…â‹…â‹…N Halogen Bond: A Rotational Study of CF₃Clâ‹…â‹…â‹…NH₃. Chemistry - A European Journal, 2012, 18, 1364-1368.	3.3	45
7	Oligomers based on weak hydrogen bond networks: a rotational study of the tetramer of difluoromethane. Chemical Communications, 2014, 50, 171-173.	4.1	43
8	Conformational equilibria in carboxylic acid bimolecules: a rotational study of acrylic acidâ€“formic acid. Physical Chemistry Chemical Physics, 2013, 15, 2917.	2.8	40
9	On the Clâ‹¯C halogen bond: a rotational study of CF₃Clâ€“CO. Physical Chemistry Chemical Physics, 2016, 18, 17851-17855.	2.8	38
10	Halogen Bond and Free Internal Rotation: The Microwave Spectrum of CF₃Clâ€“Dimethyl Ether. Journal of Physical Chemistry A, 2014, 118, 579-582.	2.5	34
11	Structural and magnetic properties of FeGenâ¯/0 (n = 3-12) clusters: Mass-selected anion photoelectron spectroscopy and density functional theory calculations. Journal of Chemical Physics, 2017, 147, 234310.	3.0	32
12	Frontiers in Rotational Spectroscopy: Shapes and Tunneling Dynamics of the Four Conformers of the Acrylic Acidâ€”Difluoroacetic Acid Adduct. Angewandte Chemie - International Edition, 2014, 53, 530-534.	13.8	31
13	Probing the DOM-mediated photodegradation of methylmercury by using organic ligands with different molecular structures as the DOM model. Water Research, 2018, 138, 264-271.	11.3	29
14	On the weak Oâ€“Hâ‹¯halogen hydrogen bond: a rotational study of CH3CHClFâ‹¯H2O. Physical Chemistry Chemical Physics, 2011, 13, 14092.	2.8	27
15	Weak hydrogen bond topology in 1,1-difluoroethane dimer: A rotational study. Journal of Chemical Physics, 2017, 147, 094301.	3.0	27
16	Conformers of dimers of carboxylic acids in the gas phase: A rotational study of difluoroacetic acidâ€“formic acid. Chemical Physics Letters, 2014, 591, 301-305.	2.6	24
17	Tetrel bonds and conformational equilibria in the formamideâ€“CO2 complex: a rotational study. Physical Chemistry Chemical Physics, 2019, 21, 7016-7020.	2.8	24
18	Ubbelohde Effect within Weak Câ€“HÂ·Â·Â·Ï€ Hydrogen Bonds: The Rotational Spectrum of Benzeneâ€“DCF3. Journal of Physical Chemistry A, 2013, 117, 13531-13534.	2.5	23

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19	Conformational Equilibria in Adducts of Alcohols with Ethers: The Rotational Spectrum of Ethylalcohol-Dimethylether. ChemPhysChem, 2011, 12, 1916-1920.	2.1	22
20	The Unexplored World of Cycloalkeneâ€“Water Complexes: Primary and Assisting Interactions Unraveled by Experimental and Computational Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 13935-13941.	13.8	22
21	Structure and Câ‹¯N tetrel-bonding of the isopropylamineâ€“CO2 complex studied by microwave spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2020, 22, 8467-8475.	2.8	22
22	Almost free methyl top internal rotation: Rotational spectrum of 2-butynoic acid. Journal of Molecular Spectroscopy, 2011, 267, 186-190.	1.2	21
23	Conformational Equilibria in Bimolecules of Carboxylic Acids: A Rotational Study of Fluoroacetic Acidâ€“Acrylic Acid. Journal of Physical Chemistry Letters, 2013, 4, 2838-2842.	4.6	21
24	Competition between weak hydrogen bonds: Câ€“Hâ‹¯Cl is preferred to Câ€“Hâ‹¯F in CH₂ClFâ€“H₂CO, as revealed by rotational spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 12261-12265.	2.8	21
25	Microsolvation of sodium acetate in water: Anion photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2015, 143, 054302.	3.0	19
26	Conformational equilibrium and internal dynamics in the iso-propanolâ€“water dimer. Physical Chemistry Chemical Physics, 2017, 19, 568-573.	2.8	19
27	Non-bonding interactions and internal dynamics in CH2F2â‹¯H2CO: a rotational and model calculations study. Physical Chemistry Chemical Physics, 2013, 15, 6714.	2.8	18
28	Microsolvation of LiBO2 in water: anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2015, 17, 9135-9147.	2.8	18
29	Conformational preference determined by inequivalent n-pairs: rotational studies on acetophenone and its monohydrate. Physical Chemistry Chemical Physics, 2019, 21, 22888-22894.	2.8	18
30	Photoelectron Spectroscopy and ab initio Calculations of Li(H₂O)_n^{â€“} and Cs(H₂O)_n^{â€“} (n = 1â€“6) Clusters. Journal of Physical Chemistry A, 2015, 119, 2845-2856.	2.5	17
31	The rotational spectrum of formic acidâ‹¯fluoroacetic acid. Journal of Molecular Spectroscopy, 2014, 299, 1-5.	1.2	16
32	Adsorption of Aun (n = 1â€“4) clusters on Fe3O4(001) B-termination. RSC Advances, 2015, 5, 45446-45453.	3.6	16
33	Structural Evolution and Electronic Properties of V_nC₂^{0/â€“} and V_nC₄^{0/â€“} (n = 1â€“6) Clusters: Insights from Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2016, 120, 1520-1528.	2.5	16
34	Rotational Study of cis- and trans-Acrylic Acidâ€“Trifluoroacetic Acid. Journal of Physical Chemistry A, 2013, 117, 13500-13503.	2.5	15
35	The rotational spectrum of acetophenone-CO2: Preferred non-covalent interactions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 238, 118424.	3.9	15
36	Stacked but not Stuck: Unveiling the Role of Ï€â†'Ï€* Interactions with the Help of the Benzofuranâ€“Formaldehyde Complex. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15

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37	Internal Dynamics in Halogenâ€Bonded Adducts: A Rotational Study of Chlorotrifluoromethaneâ€“Formaldehyde. Chemistry - A European Journal, 2015, 21, 4148-4152.	3.3	14
38	Structures and chemical bonding of B3O3â^'/0 and B3O3Hâ^'/0: A combined photoelectron spectroscopy and first-principles theory study. Journal of Chemical Physics, 2016, 144, 124301.	3.0	14
39	Theory meets experiment for elucidating the structure and stability of non-covalent complexes: waterâ€“amine interaction as a proof of concept. Physical Chemistry Chemical Physics, 2020, 22, 5024-5032.	2.8	14
40	Rich Collection of n-Propylamine and Isopropylamine Conformers: Rotational Fingerprints and State-of-the-Art Quantum Chemical Investigation. Journal of Physical Chemistry A, 2020, 124, 1372-1381.	2.5	14
41	The Characteristics of Disulfideâ€Centered Hydrogen Bonds. Angewandte Chemie - International Edition, 2021, 60, 5838-5842.	13.8	14
42	On the dissolution of lithium sulfate in water: anion photoelectron spectroscopy and density functional theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 5624-5631.	2.8	13
43	Hydrated forms of fluoroacetic acid: a rotational study. Physical Chemistry Chemical Physics, 2016, 18, 23651-23656.	2.8	13
44	Conformation and internal motions of dimethyl sulfate: A microwave spectroscopy study. Chemical Physics Letters, 2011, 517, 139-143.	2.6	12
45	Conformational Equilibria and Largeâ€Amplitude Motions in Dimers of Carboxylic Acids: Rotational Spectrum of Acetic Acidâ€“Difluoroacetic Acid. ChemPhysChem, 2014, 15, 2977-2984.	2.1	12
46	Initial hydration processes of magnesium chloride: size-selected anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2017, 19, 15562-15569.	2.8	12
47	Chalcogen bond and internal dynamics of the 2,2,4,4-tetrafluoro-1,3-dithietaneâ‹¯water complex. Physical Chemistry Chemical Physics, 2019, 21, 15656-15661.	2.8	12
48	Orientation of the water moiety in CF4â€“H2O. Journal of Molecular Spectroscopy, 2012, 282, 39-41.	1.2	11
49	Interaction between Freons and Amines: The Câ€“HÂ·Â·Â·N Weak Hydrogen Bond in Quinuclidineâ€“Trifluoromethane. Journal of Physical Chemistry A, 2014, 118, 737-740.	2.5	11
50	Molecular dynamics simulation, ab initio calculation, and size-selected anion photoelectron spectroscopy study of initial hydration processes of calcium chloride. Journal of Chemical Physics, 2018, 148, 222839.	3.0	11
51	Laboratory rotational spectrum of acrylic acid and its isotopologues in the 6â€“18.5GHz and 52â€“74.4GHz frequency ranges. Journal of Molecular Spectroscopy, 2014, 295, 37-43.	1.2	10
52	Weak Hydrogen Bond Network: A Rotational Study of 1,1,1,2-Tetrafluoroethane Dimer. Journal of Physical Chemistry A, 2017, 121, 7876-7881.	2.5	10
53	Molecular structure and non-covalent interaction of 2-thiophenecarboxaldehyde and its monohydrated complex. Journal of Chemical Physics, 2019, 151, 164307.	3.0	10
54	Differential proteomic analysis of platelets suggested target-related proteins in rabbit platelets treated withRhizoma Corydalis. Pharmaceutical Biology, 2017, 55, 76-87.	2.9	9

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55	Microwave spectroscopy of 2-(trifluoromethyl)pyridineâ‹¯water complex: Molecular structure and hydrogen bond. Journal of Chemical Physics, 2018, 148, 044306.	3.0	9
56	Disulfide Bond in Diethyl Disulfide: A Rotational Spectroscopic Study. Journal of Physical Chemistry A, 2018, 122, 5597-5601.	2.5	9
57	Conformational analysis of 1,4-butanediol: A microwave spectroscopy study. Chemical Physics Letters, 2013, 556, 55-58.	2.6	8
58	Computational Screening of Weak Hydrogen Bond Networks: Predicting Stable Structures for Difluoromethane Oligomers. Journal of Chemical Theory and Computation, 2014, 10, 2204-2211.	5.3	8
59	Superhalogen properties of BS₂^{â^'} and BSO^{â^'}: photoelectron spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2016, 18, 6175-6181.	2.8	8
60	Interactions between Ketones and Alcohols: Rotational Spectrum and Internal Dynamics of the Acetoneâ€“Ethanol Complex. Chemistry - A European Journal, 2017, 23, 11119-11125.	3.3	8
61	Shape and non-bonding interactions in the formic acid-difluoromethane complex by rotational spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 185-189.	3.9	8
62	Unveiling the structural and energetic properties of thiazole-water complex by microwave spectroscopy and theoretical calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118720.	3.9	8
63	Interaction topologies of the Sâ‹¯O chalcogen bond: the conformational equilibrium of the cyclohexanolâ‹¯SO₂ cluster. Physical Chemistry Chemical Physics, 2021, 23, 10799-10806.	2.8	8
64	A HIGHLY-INTEGRATED SUPERSONIC-JET FOURIER TRANSFORM MICROWAVE SPECTROMETER. , 2017, , .		8
65	Rotational spectrum of 2,5-difluorobenzyl alcohol. Journal of Molecular Structure, 2012, 1023, 15-17.	3.6	7
66	Effects of ring fluorination on the transient atropisomerism of benzyl alcohol: the rotational spectrum of 3,4-difluorobenzyl alcohol. Molecular Physics, 2013, 111, 1994-1998.	1.7	7
67	How Water Interacts with Halogenated Anesthetics: The Rotational Spectrum of Isofluraneâ€“Water. Chemistry - A European Journal, 2014, 20, 1980-1984.	3.3	7
68	The rotational spectrum of CF 3 Cl Ar. Chemical Physics Letters, 2016, 653, 1-4.	2.6	7
69	Rotational characterization of Sâ‹¯F chalcogen bonds in the complex of 2,2,4,4-tetrafluoro-1,3-dithietane and difluoromethane. Physical Chemistry Chemical Physics, 2019, 21, 24659-24665.	2.8	7
70	The Characteristics of Disulfideâ€Centered Hydrogen Bonds. Angewandte Chemie, 2021, 133, 5902-5906.	2.0	7
71	Photoelectron spectroscopy and density functional theory study of Bi2Alnâ^' (n=1â€“4) clusters. Chemical Physics Letters, 2014, 615, 56-61.	2.6	6
72	Rotational spectrum of the tetrafluoromethane-ethylene oxide. Journal of Molecular Spectroscopy, 2017, 335, 84-87.	1.2	6

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73	The Unexplored World of Cycloalkeneâ€“Water Complexes: Primary and Assisting Interactions Unraveled by Experimental and Computational Spectroscopy. Angewandte Chemie, 2019, 131, 14073-14079.	2.0	6
74	Rotational spectrum and structure of 2-chlorothiophene and its complex with argon. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 136-141.	3.9	6
75	Pulsed jet Fourier transform microwave spectroscopy of the BF 3 -CO complex. Journal of Molecular Spectroscopy, 2017, 335, 80-83.	1.2	5
76	Fluorination effect on conformational preferences of trifluorothioanisole. Journal of Molecular Structure, 2018, 1156, 230-234.	3.6	5
77	Microwave spectrum and non-covalent interactions of the 1, 2, 3, 4-tetrafluorobenzene-water complex. Journal of Chemical Physics, 2018, 149, 164306.	3.0	5
78	Halogen bond in the water adduct of chloropentafluoroethane revealed by rotational spectroscopy. Journal of Chemical Physics, 2018, 149, 154307.	3.0	5
79	Structure and non-covalent interactions of 1,3-difluoropropane and its complex with water explored by rotational spectroscopy and quantum chemical calculations. Journal of Chemical Physics, 2019, 150, 064305.	3.0	5
80	Conformational Equilibria and Molecular Structures of Model Sulfurâ€“Sulfur Bridge Systems: Diisopropyl Disulfide. Journal of Physical Chemistry A, 2019, 123, 10714-10720.	2.5	5
81	Conformation and bonding of 2-methoxypyridine and its monohydrate from rotational spectra. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118434.	3.9	5
82	Weak hydrogen bonds between alkyl halides and amides: The microwave spectroscopic and theoretical study of the difluoromethaneâ‹¯formamide complex. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118681.	3.9	5
83	Noncovalent Interactions between Aromatic Heterocycles and Carboxylic Acids: Rotational Spectroscopy of the Furanâ€“Formic Acid and Thiopheneâ€“Formic Acid Complexes. Journal of Physical Chemistry A, 2022, 126, 4608-4616.	2.5	5
84	Interaction of FeOâ¯ with water: anion photoelectron spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2017, 19, 21112-21118.	2.8	4
85	Structure, Conformational Equilibria, and Weak Hydrogen Bonding in the CH₂F₂â¯CF₃CH₂F Dimer. ChemPhysChem, 2018, 19, 2655-2661.	2.1	4
86	High-Resolution Rotational Spectroscopy and Interstellar Search for Isopropyl Isothiocyanate. ACS Earth and Space Chemistry, 2021, 5, 33-39.	2.7	4
87	Rotational Spectrum and Internal Dynamics of Tetrahydrofuranâ€“Krypton. ChemPhysChem, 2012, 13, 221-225.	2.1	3
88	Adducts of alcohols with ketones: A rotational study of the molecular complex Ethylalcoholâ€“Cyclobutanone. Journal of Molecular Spectroscopy, 2014, 299, 38-42.	1.2	3
89	Effective orientation of water in 1,4-dioxaneÂ·Â·Â·water: the rotational spectrum of the H₂¹⁷O isotopologue. Molecular Physics, 2014, 112, 2419-2423.	1.7	3
90	Structures and Electronic Properties of (KI)_n^{â€“/0} (n = 1â€“4) and K(KI)_n^{â€“/0} (n = 1â€“3) Clusters: Photoelectron Spectroscopy, Isomer-Depletion, and ab Initio Calculations. Journal of Physical Chemistry A, 2015, 119, 11154-11161.	2.5	3

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91	Average orientation of water in CH2F2â‹¯H2O from the 17O quadrupole effects in the rotational spectrum of CH2F2â‹¯H217O. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 64-67.	3.9	3
92	Structural and bonding properties of BS^{â˜/0} and BS₃^{â˜/0}. New Journal of Chemistry, 2018, 42, 16021-16026.	2.8	3
93	Conformational landscape of the weakly bound difluoromethaneâ€“1,1-difluoroethane dimer explored by rotational spectroscopy and quantum chemical calculations. Journal of Molecular Spectroscopy, 2019, 357, 32-37.	1.2	3
94	Rotational study of the bimolecule acetic acid-fluoroacetic acid. Chemical Physics Letters, 2017, 667, 154-157.	2.6	2
95	Rotational spectrum of 2,2,2-trifluoroacetophenone. Journal of Molecular Spectroscopy, 2018, 351, 4-7.	1.2	2
96	The microwave spectrum and structure of 2-ethynylthiophene. Journal of Molecular Structure, 2020, 1205, 127632.	3.6	2
97	The preferred conformation of the tetrafluoro-1,3-dithietaneâ‹¯isopropylamine complex as revealed by rotational spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 28339-28344.	2.8	2
98	Rotational spectra and molecular structures of ethylanilines. Chinese Journal of Chemical Physics, 2020, 33, 119-124.	1.3	2
99	Rotational spectra of 2,3,6-trifluoropyridine: Effect of fluorination on ring geometry. Chinese Journal of Chemical Physics, 2020, 33, 48-52.	1.3	2
100	The 2,2,4,4-tetrafluoro-1,3-dithietaneâ‹¯NH3 complex: A rotational study reveals a Nâ‹¯Ïƒ-hole interaction. Journal of Molecular Spectroscopy, 2021, 376, 111409.	1.2	2
101	A rotational study of the 1:1 adduct of ethanol and 1,4-dioxane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120086.	3.9	2
102	Stacked but not Stuck: Unveiling the Role of Ï€ â†' Ï€* Interactions with the Help of the Benzofuranâ€Formaldehyde Complex. Angewandte Chemie, 2022, 134, e202113737.	2.0	2
103	Van der Waals interaction between perhalogenated ethylene and rare gas: A rotational study of chlorotrifluorethylene-argon. Journal of Chemical Physics, 2018, 148, 154302.	3.0	1
104	Possibilities and challenges in astrochemistry: Computational and spectroscopic strategies. Physics of Life Reviews, 2020, 32, 104-106.	2.8	1
105	Structures and hydrogen bonding of 1,7-dioxaspiro[5.5]undecane and its hydrates. Physical Chemistry Chemical Physics, 2021, 23, 19289-19296.	2.8	1
106	Rotational study on the van der Waals complex 1-chloro-1,1-difluoroethane-argon. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 193, 447-450.	3.9	0
107	Rotational spectrum of the pentafluoroethane-argon van der Waals complex. Chemical Physics Letters, 2018, 691, 206-210.	2.6	0
108	Rotational spectrum, internal dynamics, and molecular structure of methylphenylsilane. Journal of Chemical Physics, 2019, 150, 234302.	3.0	0

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109	Microwave spectrum and structure of 2-(trifluoromethyl)pyridine. Chinese Journal of Chemical Physics, 2020, 33, 53-57.	1.3	0
110	Microwave spectra and structures of 2-fluoro-4-picoline. Journal of Molecular Structure, 2020, 1208, 127857.	3.6	0
111	Van der Waals interactions of the disulfide bond revealed: A microwave spectroscopic study of the diethyl disulfideâ€“argon complex. Journal of Chemical Physics, 2021, 154, 124306.	3.0	0
112	Conformations and structures of 1,4-pentadien-3-ol and its water complex characterized by rotational spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 267, 120589.	3.9	0