Qian Gou

List of Publications by Year in descending order

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| | | 394421 | 552781 |
|----------|----------------|--------------|----------------|
| 96 | 1,153 | 19 | 26 |
| papers | citations | h-index | g-index |
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| 00 | 00 | 00 | E07 |
| 99 | 99 | 99 | 587 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Loneâ€Pairâ«â«ä«ï€ Interaction: A Rotational Study of the Chlorotrifluoroethylene–Water Adduct. Angewandte Chemie - International Edition, 2013, 52, 11888-11891. | 13.8 | 49 |
| 2 | The Barrier to Proton Transfer in the Dimer of Formic Acid: A Pure Rotational Study. Angewandte Chemie - International Edition, 2019, 58, 859-865. | 13.8 | 48 |
| 3 | Conformational equilibria in carboxylic acid bimolecules: a rotational study of acrylic acid–formic acid. Physical Chemistry Chemical Physics, 2013, 15, 2917. | 2.8 | 40 |
| 4 | On the Clâ <c a="" bond:="" cf<sub="" halogen="" of="" rotational="" study="">3Cl–CO. Physical Chemistry Chemical Physics, 2016, 18, 17851-17855.</c> | 2.8 | 38 |
| 5 | Probing the Lone Pair····Ä-Hole Interaction in Perfluorinated Heteroaromatic Rings: The Rotational Spectrum of Pentafluoropyridine·Water. Journal of Physical Chemistry Letters, 2016, 7, 1513-1517. | 4.6 | 36 |
| 6 | Halogen Bond and Free Internal Rotation: The Microwave Spectrum of CF ₃ Cl–Dimethyl Ether. Journal of Physical Chemistry A, 2014, 118, 579-582. | 2.5 | 34 |
| 7 | Weak hydrogen bond topology in 1,1-difluoroethane dimer: A rotational study. Journal of Chemical Physics, 2017, 147, 094301. | 3.0 | 27 |
| 8 | How CO ₂ Interacts with Carboxylic Acids: A Rotational Study of Formic Acid–CO ₂ . ChemPhysChem, 2015, 16, 2961-2967. | 2.1 | 26 |
| 9 | Weak C–Hâ <n and="" bonds="" c–hâ<f="" hydrogen="" in="" internal="" pyridine–ch<sub="" rotation="">3F. Physical Chemistry Chemical Physics, 2014, 16, 2149-2153.</n> | 2.8 | 25 |
| 10 | Halogen–Halogen Links and Internal Dynamics in Adducts of Freons. Journal of Physical Chemistry Letters, 2014, 5, 1591-1595. | 4.6 | 25 |
| 11 | Conformers of dimers of carboxylic acids in the gas phase: A rotational study of difluoroacetic acid–formic acid. Chemical Physics Letters, 2014, 591, 301-305. | 2.6 | 24 |
| 12 | N lone-pairâ√Ï€ interaction: a rotational study of chlorotrifluoroethyleneâ√ammonia. Physical Chemistry Chemical Physics, 2015, 17, 7694-7698. | 2.8 | 24 |
| 13 | Tetrel bonds and conformational equilibria in the formamide–CO2 complex: a rotational study. Physical Chemistry Chemical Physics, 2019, 21, 7016-7020. | 2.8 | 24 |
| 14 | Ubbelohde Effect within Weak C–H···π Hydrogen Bonds: The Rotational Spectrum of Benzene–DCF3. Journal of Physical Chemistry A, 2013, 117, 13531-13534. | 2.5 | 23 |
| 15 | Interactions between Carboxylic Acids and Aldehydes: A Rotational Study of HCOOH–CH∢sub>2⟨/sub>O. Journal of Physical Chemistry A, 2014, 118, 10738-10741. | 2.5 | 22 |
| 16 | Rotational Study of Dimethyl Ether–Chlorotrifluoroethylene: Lone Pair···π Interaction Links the Two Subunits. Journal of Physical Chemistry A, 2016, 120, 4939-4943. | 2.5 | 22 |
| 17 | The Unexplored World of Cycloalkene–Water Complexes: Primary and Assisting Interactions Unraveled by Experimental and Computational Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 13935-13941. | 13.8 | 22 |
| 18 | Structure and Câ√N tetrel-bonding of the isopropylamine–CO2 complex studied by microwave spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2020, 22, 8467-8475. | 2.8 | 22 |

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|----|---|-----|-----------|
| 19 | Competition between weak hydrogen bonds: C–Hâ <cl ch<sub="" c–hâ<f="" in="" is="" preferred="" to="">2ClF–H₂CO, as revealed by rotational spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 12261-12265.</cl> | 2.8 | 21 |
| 20 | Conformational equilibrium and internal dynamics in the iso-propanol–water dimer. Physical Chemistry Chemical Physics, 2017, 19, 568-573. | 2.8 | 19 |
| 21 | 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 |
| 22 | 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 |
| 23 | Chlorine "Equatorial Belt―Activation of CF ₃ Cl by CO ₂ : The C···Cl Tetrel Bond Dominance in CF ₃ Cl–CO ₂ . Journal of Physical Chemistry Letters, 2021, 12, 3907-3913. | 4.6 | 17 |
| 24 | Interactions between Freons: A Rotational Study of CH ₂ . Chemistry - an Asian Journal, 2014, 9, 1032-1038. | 3.3 | 16 |
| 25 | Interactions between freons and aromatic molecules: The rotational spectrum of pyridine–difluoromethane. Chemical Physics Letters, 2014, 591, 216-219. | 2.6 | 16 |
| 26 | Interactions between alkanes and aromatic molecules: a rotational study of pyridine–methane. Physical Chemistry Chemical Physics, 2014, 16, 13041-13046. | 2.8 | 16 |
| 27 | Interactions between Carboxylic Acids and Heteroaromatics: A Rotational Study of Formic Acid–Pyridine. Journal of Physical Chemistry A, 2016, 120, 5094-5098. | 2.5 | 16 |
| 28 | The rotational spectrum of acetophenone-CO2: Preferred non-covalent interactions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 238, 118424. | 3.9 | 15 |
| 29 | Internal Dynamics in Halogenâ€Bonded Adducts: A Rotational Study of Chlorotrifluoromethane–Formaldehyde. Chemistry - A European Journal, 2015, 21, 4148-4152. | 3.3 | 14 |
| 30 | Theory meets experiment for elucidating the structure and stability of non-covalent complexes: water–amine interaction as a proof of concept. Physical Chemistry Chemical Physics, 2020, 22, 5024-5032. | 2.8 | 14 |
| 31 | 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 |
| 32 | Hydrated forms of fluoroacetic acid: a rotational study. Physical Chemistry Chemical Physics, 2016, 18, 23651-23656. | 2.8 | 13 |
| 33 | Conformational Equilibria and Largeâ€Amplitude Motions in Dimers of Carboxylic Acids: Rotational Spectrum of Acetic Acid–Difluoroacetic Acid. ChemPhysChem, 2014, 15, 2977-2984. | 2.1 | 12 |
| 34 | Effects of Fluorine Substitution on the Microsolvation of Aromatic Azines: The Microwave Spectrum of 3-Fluoropyridine-Water. Journal of Physical Chemistry A, 2016, 120, 5163-5168. | 2.5 | 12 |
| 35 | Chalcogen bond and internal dynamics of the 2,2,4,4-tetrafluoro-1,3-dithietaneâc water complex. Physical Chemistry Chemical Physics, 2019, 21, 15656-15661. | 2.8 | 12 |
| 36 | Orientation of the water moiety in CF4–H2O. Journal of Molecular Spectroscopy, 2012, 282, 39-41. | 1.2 | 11 |

| # | Article | IF | CITATIONS |
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| 37 | The shape of trifluoromethoxybenzene. Journal of Molecular Spectroscopy, 2014, 297, 32-34. | 1.2 | 11 |
| 38 | Interaction between Freons and Amines: The C–H···N Weak Hydrogen Bond in Quinuclidine–Trifluoromethane. Journal of Physical Chemistry A, 2014, 118, 737-740. | 2.5 | 11 |
| 39 | Intermolecular Hydrogen Bonding in 2-Fluoropyridine-Water. ChemistrySelect, 2016, 1, 1273-1277. | 1.5 | 10 |
| 40 | Conformational Equilibrium and Internal Dynamics of E-Anethole: A Rotational Study. Journal of Physical Chemistry B, 2016, 120, 6587-6591. | 2.6 | 10 |
| 41 | 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 |
| 42 | Barrier to Proton Transfer in the Dimer of Formic Acid: A Pure Rotational Study. Angewandte Chemie, 2018, 131, 869. | 2.0 | 10 |
| 43 | Molecular structure and non-covalent interaction of 2-thiophenecarboxaldehyde and its monohydrated complex. Journal of Chemical Physics, 2019, 151, 164307. | 3.0 | 10 |
| 44 | Competitive tetrel bond and hydrogen bond in benzaldehyde-CO2: Characterization by rotational spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 25784-25788. | 2.8 | 10 |
| 45 | Interaction Types in C ₆ H ₅ (CH ₂) <i>_n</i> OH–CO ₂ (<i>n</i> =) Tj 149-155. | ЕТДд1 (| l 0.784314 rgi |
| 46 | Microwave spectroscopy of 2-(trifluoromethyl)pyridineâ water complex: Molecular structure and hydrogen bond. Journal of Chemical Physics, 2018, 148, 044306. | 3.0 | 9 |
| 47 | Disulfide Bond in Diethyl Disulfide: A Rotational Spectroscopic Study. Journal of Physical Chemistry A, 2018, 122, 5597-5601. | 2.5 | 9 |
| 48 | Competitive and cooperative n \hat{a}^{\dagger} ' \in * and n \hat{a}^{\dagger} ' f^{\dagger} interactions in benzaldehyde $\hat{a}\in$ "formaldehyde: rotational characterization. Physical Chemistry Chemical Physics, 2021, 23, 8778-8783. | 2.8 | 9 |
| 49 | Switching Aromatic Character by Complexation: π to π* Change Seen in Molecular Rotation Spectra. Journal of Physical Chemistry Letters, 2021, 12, 5150-5155. | 4.6 | 9 |
| 50 | Weak hydrogen bonds in adducts between freons: the rotational study of CH2F2–CH2ClF. New Journal of Chemistry, 2015, 39, 2296-2299. | 2.8 | 8 |
| 51 | Interactions between Ketones and Alcohols: Rotational Spectrum and Internal Dynamics of the Acetone–Ethanol Complex. Chemistry - A European Journal, 2017, 23, 11119-11125. | 3.3 | 8 |
| 52 | 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 |
| 53 | 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 |
| 54 | Rotational Spectroscopy Meets Quantum Chemistry for Analyzing Substituent Effects on Non-Covalent Interactions: The Case of the Trifluoroacetophenone-Water Complex. Molecules, 2020, 25, 4899. | 3.8 | 8 |

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| 55 | Halogen bond and internal dynamics in the Ï∫–complex of pyridine-chlorotrifluoromethane: A rotational study. Journal of Molecular Spectroscopy, 2020, 371, 111323. | 1.2 | 8 |
| 56 | Hydrogen versus tetrel bonds in complexes of 3-oxetanone with water and formaldehyde. Physical Chemistry Chemical Physics, 2021, 23, 7295-7301. | 2.8 | 8 |
| 57 | A HIGHLY-INTEGRATED SUPERSONIC-JET FOURIER TRANSFORM MICROWAVE SPECTROMETER. , 2017, , . | | 8 |
| 58 | Fluorination Effects on the Shapes of Complexes of Water with Ethers: A Rotational Study of Trifluoroanisole–Water. Journal of Physical Chemistry A, 2014, 118, 1047-1051. | 2.5 | 7 |
| 59 | How Water Interacts with Halogenated Anesthetics: The Rotational Spectrum of Isoflurane–Water. Chemistry - A European Journal, 2014, 20, 1980-1984. | 3.3 | 7 |
| 60 | The rotational spectrum of CF 3 Cl Ar. Chemical Physics Letters, 2016, 653, 1-4. | 2.6 | 7 |
| 61 | Rotational characterization of Sâ ^c 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 |
| 62 | Rotational spectrum of the tetrafluoromethane-ethylene oxide. Journal of Molecular Spectroscopy, 2017, 335, 84-87. | 1.2 | 6 |
| 63 | The Unexplored World of Cycloalkene–Water Complexes: Primary and Assisting Interactions Unraveled by Experimental and Computational Spectroscopy. Angewandte Chemie, 2019, 131, 14073-14079. | 2.0 | 6 |
| 64 | 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 |
| 65 | Conformational Equilibria of 2â€Methoxypyridineâ«â«20 2 : Cooperative and Competitive Tetrel and Weak Hydrogen Bonds. ChemPhysChem, 2021, 22, 154-159. | 2.1 | 6 |
| 66 | Fluorination effect on conformational preferences of trifluorothioanisole. Journal of Molecular Structure, 2018, 1156, 230-234. | 3.6 | 5 |
| 67 | 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 |
| 68 | Halogen bond in the water adduct of chloropentafluoroethane revealed by rotational spectroscopy. Journal of Chemical Physics, 2018, 149, 154307. | 3.0 | 5 |
| 69 | 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 |
| 70 | Conformational Equilibria and Molecular Structures of Model Sulfur–Sulfur Bridge Systems: Diisopropyl Disulfide. Journal of Physical Chemistry A, 2019, 123, 10714-10720. | 2.5 | 5 |
| 71 | 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 |
| 72 | Weak hydrogen bonds between alkyl halides and amides: The microwave spectroscopic and theoretical study of the difluoromethaneâr formamide complex. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118681. | 3.9 | 5 |

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| 73 | Sp ² - and sp ³ –Câ <o ,="" .<="" 2022,="" 3-oxetanone="" bonds="" chemical="" chemistry="" homodimer.="" in="" physical="" physics,="" td="" tetrel="" the=""><td>2.8</td><td>5</td></o> | 2.8 | 5 |
| 74 | Chloromethane–Water Adduct: Rotational Spectrum, Weak Hydrogen Bonds, and Internal Dynamics. Chemistry - an Asian Journal, 2015, 10, 1198-1203. | 3.3 | 4 |
| 75 | Structure, Conformational Equilibria, and Weak Hydrogen Bonding in the CH ₂ F ₅ 6°°CF ₃ CH ₂ F Dimer. ChemPhysChem, 2018, 19, 2655-2661. | 2.1 | 4 |
| 76 | 6,8-di-C-glycosyl flavones with \hat{l}^2 -furanoarabinose from Scutellaria baicalensis and their anti-inflammatory activities. Natural Product Research, 2019, 33, 1243-1250. | 1.8 | 4 |
| 77 | Laboratory Measurements and Astronomical Search for Methoxyacetone and Methyl Methoxyacetate. Journal of Physical Chemistry A, 2022, 126, 3549-3554. | 2.5 | 4 |
| 78 | Rotational Spectrum and Internal Dynamics of Tetrahydrofuran–Krypton. ChemPhysChem, 2012, 13, 221-225. | 2.1 | 3 |
| 79 | Adducts of alcohols with ketones: A rotational study of the molecular complex Ethylalcohol–Cyclobutanone. Journal of Molecular Spectroscopy, 2014, 299, 38-42. | 1.2 | 3 |
| 80 | 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 |
| 81 | Rotational study of the bimolecule acetic acid-fluoroacetic acid. Chemical Physics Letters, 2017, 667, 154-157. | 2.6 | 2 |
| 82 | Rotational spectrum of 2,2,2-trifluoroacetophenone. Journal of Molecular Spectroscopy, 2018, 351, 4-7. | 1.2 | 2 |
| 83 | The microwave spectrum and structure of 2-ethynylthiophene. Journal of Molecular Structure, 2020, 1205, 127632. | 3.6 | 2 |
| 84 | Rotational spectra and molecular structures of ethylanilines. Chinese Journal of Chemical Physics, 2020, 33, 119-124. | 1.3 | 2 |
| 85 | 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 |
| 86 | The 2,2,4,4-tetrafluoro-1,3-dithietaneâ< NH3 complex: A rotational study reveals a Nâ< Îf-hole interaction. Journal of Molecular Spectroscopy, 2021, 376, 111409. | 1.2 | 2 |
| 87 | 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 |
| 88 | Possibilities and challenges in astrochemistry: Computational and spectroscopic strategies. Physics of Life Reviews, 2020, 32, 104-106. | 2.8 | 1 |
| 89 | Monitoring of peroxy radicals by chemical amplification enhanced photoacoustic spectroscopy. , 2021, , . | | 1 |
| 90 | Rotational Spectra of 2-Ethynylpyridine and Its Monohydrate: Influence of the Ortho-Substitution on Ring Geometry and Intermolecular Hydrogen Bonds. Journal of Physical Chemistry A, 2022, 126, 623-629. | 2.5 | 1 |

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| 91 | 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 |
| 92 | Rotational spectrum of the pentafluoroethane-argon van der Waals complex. Chemical Physics Letters, 2018, 691, 206-210. | 2.6 | 0 |
| 93 | Rotational spectrum, internal dynamics, and molecular structure of methylphenylsilane. Journal of Chemical Physics, 2019, 150, 234302. | 3.0 | 0 |
| 94 | Microwave spectrum and structure of 2-(trifluoromethyl)pyridine. Chinese Journal of Chemical Physics, 2020, 33, 53-57. | 1.3 | 0 |
| 95 | Rotational spectrum of Isochroman. Journal of Molecular Structure, 2022, 1254, 132322. | 3.6 | O |
| 96 | Modulation of $\ddot{\mathbb{I}}$ character upon complexation captured by molecular rotation spectra. Physical Chemistry Chemical Physics, 2022, , . | 2.8 | 0 |