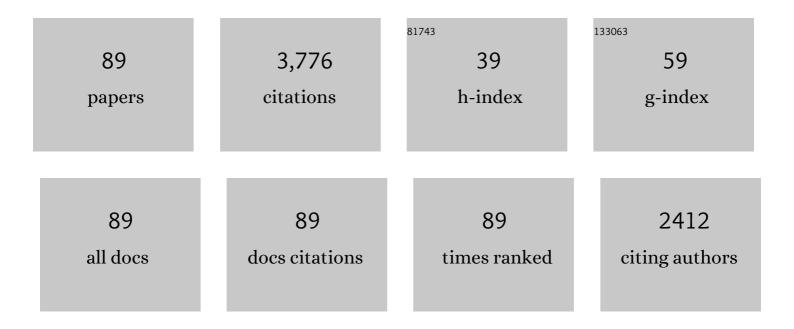
## Alfred Karpfen

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | On the interaction of propynal with HNO, HF, HCl, H2O, CH3OH, and NH3: Red- and blue-shifting hydrogen bonds and tetrel bonds. Computational and Theoretical Chemistry, 2019, 1160, 1-13.                                     | 1.1 | 12        |
| 2  | On the structure of the H 2 CO-HNO dimer: Planar or orthogonal?. Computational and Theoretical Chemistry, 2017, 1108, 10-17.  | 1.1 | 2         |
| 3  | On the interaction of cyanoformaldehyde with HNO, HF, HCl, H 2 O, and CH 3 OH: A preference for orthogonal structures. Computational and Theoretical Chemistry, 2017, 1120, 34-45.  | 1.1 | 1         |
| 4  | How strong is the edge effect in the adsorption of anticancer drugs on a graphene cluster?. Journal of Molecular Modeling, 2016, 22, 85.  | 0.8 | 14        |
| 5  | On the potential energy surfaces of dimers formed between trans-glyoxal, trans-acrolein and formaldehyde. Computational and Theoretical Chemistry, 2015, 1061, 60-71.   | 1.1 | 7         |
| 6  | Binding mode and free energy prediction of fisetin∬²-cyclodextrin inclusion complexes. Beilstein<br>Journal of Organic Chemistry, 2014, 10, 2789-2799.  | 1.3 | 47        |
| 7  | AHâ<ï€ hydrogen bonding to acetylene and benzene: The role of intramolecular coupling. Computational<br>and Theoretical Chemistry, 2012, 999, 231-238.  | 1.1 | 9         |
| 8  | Blue-shifted A–H stretching frequencies in complexes with methanol: the decisive role of intramolecular coupling. Physical Chemistry Chemical Physics, 2011, 13, 14194.   | 1.3 | 25        |
| 9  | Modified ene–yne compounds: a novel functional material with nonlinear optical properties.<br>CrystEngComm, 2011, 13, 7194.   | 1.3 | 15        |
| 10 | Systematic investigation on the binding of GW420867X as HIV-1 reverse transcriptase inhibitor.<br>Monatshefte Für Chemie, 2011, 142, 961-971.   | 0.9 | 3         |
| 11 | The dimers of glyoxal and acrolein with H2O and HF: Negative intramolecular coupling and blue-shifted C–H stretch. Chemical Physics Letters, 2010, 489, 39-43.  | 1.2 | 18        |
| 12 | Cryospectroscopic and ab initio studies of haloform–trimethylamine H-bonded complexes. Physical<br>Chemistry Chemical Physics, 2009, 11, 1551.  | 1.3 | 30        |
| 13 | On the Intramolecular Origin of the Blue Shift of Aâ^'H Stretching Frequencies: Triatomic Hydrides<br>HAX. Journal of Physical Chemistry A, 2009, 113, 5217-5223.   | 1.1 | 33        |
| 14 | Density functional calculations on cyclodextrins. Monatshefte Für Chemie, 2008, 139, 363-371.   | 0.9 | 10        |
| 15 | Blue-Shifted Aâ^'H Stretching Modes and Cooperative Hydrogen Bonding. 1. Complexes of Substituted<br>Formaldehyde with Cyclic Hydrogen Fluoride and Water Clusters. Journal of Physical Chemistry A,<br>2007, 111, 8177-8187. | 1.1 | 47        |
| 16 | The Concept of Molecular Shape Response Quantified within Force Field Approach. AIP Conference<br>Proceedings, 2007, , .  | 0.3 | 0         |
| 17 | On the structure of anhydrous β-cyclodextrin. Chemical Physics Letters, 2007, 441, 159-162.   | 1.2 | 42        |
| 18 | Homodromic hydrogen bonds in low-energy conformations of single molecule cyclodextrins. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 35-38.  | 1.6 | 10        |

Alfred Karpfen

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|----|---|------------|----------------------|
| 19 | Theoretical Characterization of the Trends in Halogen Bonding. , 2007, , 1-15.  |            | 64                   |
| 20 | On blue shifts of C–H stretching modes of dimethyl ether in hydrogen- and halogen-bonded complexes. Chemical Physics Letters, 2006, 431, 428-433.   | 1.2        | 58                   |
| 21 | Theoretical force-field model for blue-shifted hydrogen bonds with fluoromethanes. Chemical Physics, 2006, 329, 313-328.  | 0.9        | 37                   |
| 22 | Does the most stable formic acid tetramer have Ï€ stacking or C–Hâ⊄O interactions?. Journal of Chemical<br>Physics, 2006, 124, 224313.  | 1.2        | 20                   |
| 23 | The interaction of fluoramines, fluorophosphines and fluoroarsines with hydrogen fluoride<br>clusters (HF)n: Model studies on blue-shifted hydrogen bonds. Computational and Theoretical<br>Chemistry, 2005, 757, 203-215.                                | 1.5        | 20                   |
| 24 | Blue-shifted hydrogen-bonded complexes. II. CH3Fâ‹⁻(HF)1⩽n⩽3 and CH2F2â‹⁻(HF)1⩽n⩽3. Cher<br>77-84.  | nical Phys | ics, 2005, 310<br>51 |
| 25 | Strongly Blue-Shifted Câ^'H Stretches:Â Interaction of Formaldehyde with Hydrogen Fluoride Clusters.<br>Journal of Physical Chemistry A, 2005, 109, 8930-8937.  | 1.1        | 58                   |
| 26 | Accurate torsional potentials in conjugated systems: ab initio and density functional calculations on 1,3-butadiene and monohalogenated butadienes. Molecular Physics, 2004, 102, 819-826.  | 0.8        | 29                   |
| 27 | The interaction of fluorosilanes with hydrogen fluoride clusters: strongly blue-shifted hydrogen bonds. Computational and Theoretical Chemistry, 2004, 710, 85-95.  | 1.5        | 25                   |
| 28 | The intermolecular interaction in the charge-transfer complexes between amines and halogens: A<br>theoretical characterization of the trends in halogen bonding. Theoretical Chemistry Accounts, 2003,<br>110, 1-9.                                       | 0.5        | 77                   |
| 29 | On the structure and torsional potential of trifluoromethoxybenzene: an ab initio and density functional study. Chemical Physics Letters, 2003, 367, 566-575.   | 1.2        | 41                   |
| 30 | Surprisingly regular structure–property relationships between C–O bond distances and methoxy<br>group torsional potentials: An ab initio and density functional study. Computational and Theoretical<br>Chemistry, 2003, 635, 141-150.                    | 1.5        | 15                   |
| 31 | Trends in the Torsional Potentials of Methoxy and Trifluoromethoxy Groups:Â An ab Initio and Density<br>Functional Study on the Structure of para-Substituted Pyridines and Pyridinium Cations. Journal of<br>Physical Chemistry A, 2003, 107, 2362-2368. | 1.1        | 8                    |
| 32 | Blue-Shifted Hydrogen-Bonded Complexes CF3Hâ^'(HF)1≤â‰8. Journal of Physical Chemistry A, 2003, 107,<br>9724-9729.  | 1.1        | 69                   |
| 33 | Cooperative Effects in Hydrogen Bonding. Advances in Chemical Physics, 2003, , 469-510.   | 0.3        | 65                   |
| 34 | The Torsional Potential of Dimethyl Peroxide:Â Still a Difficult Case for Theory. Journal of Physical<br>Chemistry A, 2002, 106, 438-446.   | 1.1        | 27                   |
| 35 | Theoretical and experimental approaches to evaluate the intermolecular hydrogen-bonding ability of tertiary amides. Physical Chemistry Chemical Physics, 2001, 3, 1973-1978.  | 1.3        | 13                   |
| 36 | Charge-Transfer Complexes between the Amines (CH3)nNH3-n (n = 0â^'3) and the ClF Molecule:  An ab<br>Initio and Density Functional Study on the Intermolecular Interaction. Journal of Physical Chemistry<br>A, 2001, 105, 2064-2072.                     | 1.1        | 19                   |

ALFRED KARPFEN

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|----|--|-----|-----------|
| 37 | Hydrogen-bonding interaction of methyl-substituted pyridines with thioacetamide: steric hindrance of methyl group. Chemical Physics Letters, 2001, 345, 338-344.   | 1.2 | 15        |
| 38 | The intermolecular interaction in the charge-transfer complex between NH3 and F2. A subtle case.<br>Chemical Physics Letters, 2000, 316, 483-488.  | 1.2 | 11        |
| 39 | Charge-Transfer Complexes between NH3and the Halogens F2, ClF, and Cl2:Â An ab Initio Study on the<br>Intermolecular Interaction. Journal of Physical Chemistry A, 2000, 104, 6871-6879.                                   | 1.1 | 85        |
| 40 | The intermolecular interaction between amines and F2. An ab initio study. Chemical Physics Letters, 1999, 299, 493-502.  | 1.2 | 14        |
| 41 | The Dimer of Acetylene and the Dimer of Diacetylene:  A Floppy and a Very Floppy Molecule. Journal of<br>Physical Chemistry A, 1999, 103, 11431-11441.   | 1.1 | 46        |
| 42 | Torsional Potentials of Perfluoro-1,3-butadiene and Perfluoro-1,3,5-hexatriene:  A Comparison of ab<br>Initio and Density Functional Results. Journal of Physical Chemistry A, 1999, 103, 2821-2827.                       | 1.1 | 16        |
| 43 | The Dimer of Cyanodiacetylene: Stacking vs. Hydrogen Bonding. , 1999, , 73-86.   |     | 0         |
| 44 | Molecular and Electronic Structures of Heteroaromatic Oligomers:Â Model Compounds of Polymers with Quantum-Well Structures. Journal of Organic Chemistry, 1998, 63, 1041-1048.   | 1.7 | 57        |
| 45 | Ab Initio Studies on Cyanoacetylene Oligomers:Â Rings and Chains versus Stacked Clusters. Journal of<br>Physical Chemistry A, 1998, 102, 9286-9296.  | 1.1 | 11        |
| 46 | The effects of electron correlation on the degree of bond alternation and electronic structure of oligomers of polyacetylene. Journal of Chemical Physics, 1997, 107, 6712-6721.   | 1.2 | 143       |
| 47 | NMR Shieldings in Benzoyl and 2-Hydroxybenzoyl Compounds. Experimental versus GIAO Calculated<br>Data. Journal of Physical Chemistry A, 1997, 101, 9610-9617.  | 1.1 | 54        |
| 48 | Molecular Geometries and Vibrational Spectra of Phenol, Benzaldehyde, and Salicylaldehyde:Â<br>Experimental versus Quantum Chemical Data. Journal of Physical Chemistry A, 1997, 101, 2254-2263.                           | 1.1 | 162       |
| 49 | Single-Bond Torsional Potentials in Conjugated Systems:  A Comparison of ab Initio and Density<br>Functional Results. Journal of Physical Chemistry A, 1997, 101, 7426-7433.   | 1.1 | 254       |
| 50 | Limitations of current density functional theories for the description of partial π-bond breaking.<br>Chemical Physics Letters, 1997, 276, 266-268.  | 1.2 | 52        |
| 51 | Intramolecular Hydrogen Bonding in 2-Hydroxybenzoyl Compounds:Â Infrared Spectra and Quantum<br>Chemical Calculations. The Journal of Physical Chemistry, 1996, 100, 7418-7425.  | 2.9 | 100       |
| 52 | Linear and Cyclic Clusters of Hydrogen Cyanide and Cyanoacetylene:Â A Comparative ab Initio and<br>Density Functional Study on Cooperative Hydrogen Bonding. The Journal of Physical Chemistry, 1996,<br>100, 13474-13486. | 2.9 | 52        |
| 53 | Trends in the C-C force constants in oligothiophenes: A quantum chemical study. Journal of<br>Molecular Structure, 1995, 349, 417-420.   | 1.8 | 7         |
| 54 | Ab initio studies on heterocyclic conjugated polymers: Structure and vibrational spectra of pyrrole, oligopyrroles, and polypyrrole. Journal of Chemical Physics, 1992, 96, 4464-4473.                                     | 1.2 | 70        |

ALFRED KARPFEN

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|----|--|-----|-----------|
| 55 | From butadiene to polyacetylene: An ab initio study on the vibrational spectra of polyenes. Journal of<br>Chemical Physics, 1992, 96, 982-996.   | 1.2 | 40        |
| 56 | Ab initio studies on heterocyclic conjugated polymers: structure and vibrational spectra of<br>thiophene, oligothiophenes and polythiophene. Computational and Theoretical Chemistry, 1992, 259,<br>181-198.   | 1.5 | 83        |
| 57 | Gauche- versus s-cis-butadiene revisited: a molecular dynamics simulation of the Ar matrix effect.<br>Chemical Physics Letters, 1992, 189, 281-286.  | 1.2 | 23        |
| 58 | An ab initio study of the hydrogen chloride dimer: The potential energy surface and the characterization of the stationary points. Chemical Physics, 1991, 149, 299-309.                                       | 0.9 | 57        |
| 59 | An analytical ab initio potential surface and the calculated tunneling energies for the HCl dimer.<br>Journal of Molecular Spectroscopy, 1991, 146, 200-219.   | 0.4 | 51        |
| 60 | Ab initio studies on hydrogen-bonded trimers: structure and vibrational spectra of HCN(HF)2 and (HCN)2HF. Computational and Theoretical Chemistry, 1991, 227, 337-350.   | 1.5 | 3         |
| 61 | Ab initio studies on hydrogen-bonded clusters: Structure and vibrational spectra of cyclic (HF)n complexes. International Journal of Quantum Chemistry, 1990, 38, 129-140.                                     | 1.0 | 37        |
| 62 | An ab initio calculation of the intramolecular stretching spectra for the HF dimer and its Dâ€substituted isotopic species. Journal of Chemical Physics, 1990, 93, 6266-6280.                                  | 1.2 | 68        |
| 63 | Linear versus cyclic (HCN)3: An ab initio study on structure, vibrational spectra, and infrared intensities. Journal of Chemical Physics, 1990, 92, 2469-2477.   | 1.2 | 40        |
| 64 | An ab initio calculation of the stretching energies for the HF dimer. Journal of Chemical Physics, 1990, 92, 7432-7440.  | 1.2 | 62        |
| 65 | An ab initio semirigid bender calculation of the rotation and transâ€ŧunneling spectra of (HF)2 and<br>(DF)2. Journal of Chemical Physics, 1989, 91, 5154-5159.  | 1.2 | 59        |
| 66 | Coupled pair functional study on the hydrogen fluoride dimer. I. Energy surface and characterization of stationary points. Chemical Physics, 1988, 121, 137-153.   | 0.9 | 102       |
| 67 | Ab initio studies on hydrogen-bonded clusters. II. Structures and vibrational spectra of the<br>hydrogen-bonded trimers (HCN)2HF, (HCN2)HCl, (NCH)2OH2 AND (NCH)2NH3. Chemical Physics, 1988,<br>120, 199-213. | 0.9 | 13        |
| 68 | An analytical sixâ€dimensional potential energy surface for (HF)2 from ab initio calculations. Journal of<br>Chemical Physics, 1988, 89, 3002-3007.  | 1.2 | 87        |
| 69 | Ab initio studies on polymers: torsional potential in helical sulfur chains. Chemical Physics Letters, 1987, 136, 571-574.   | 1.2 | 6         |
| 70 | Ab initio studies on hydrogen-bonded clusters. I. Linear and cyclic oligomers of hydrogen cyanide.<br>Chemical Physics, 1987, 113, 53-64.  | 0.9 | 83        |
| 71 | Ab initio calculations on the excited states of π-systems. I. Valence excitations in acetylene. Chemical Physics, 1986, 102, 77-89.  | 0.9 | 73        |
| 72 | Ab initio calculations on the excited states of π-systems. II. Valence excitations in diacetylene.<br>Chemical Physics, 1986, 102, 91-102.   | 0.9 | 21        |

ALFRED KARPFEN

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|----|--|-----|-----------|
| 73 | Abinitio studies on hydrogen bonded chains. V. The structure of infinite chains of methanol and water molecules. Canadian Journal of Chemistry, 1985, 63, 809-815.                   | 0.6 | 34        |
| 74 | Ab initio studies on hydrogen-bonded chains. IV. Structure and stability of formic acid chains.<br>Chemical Physics, 1984, 88, 415-423.  | 0.9 | 26        |
| 75 | Ab initio studies on polymers. VI. Torsional potential in regular polyethylene chains. Journal of<br>Computational Chemistry, 1984, 5, 11-18.  | 1.5 | 24        |
| 76 | Ab initio studies on polymers. VII. Polyoxymethylene. Journal of Computational Chemistry, 1984, 5, 19-23.  | 1.5 | 8         |
| 77 | Energy surfaces of hydrogen-bonded complexes in the vapor phase. Topics in Current Chemistry, 1984, ,<br>1-40.   | 4.0 | 47        |
| 78 | AB Initio Studies on the Structure and Phonon Spectra of Simple Polymers. , 1984, , 33-55.   |     | 4         |
| 79 | Ab initio studies on hydrogen-bonded chains. III. The linear, infinite chain of hydrogen cyanide<br>molecules. Chemical Physics, 1983, 79, 211-218.                                  | 0.9 | 32        |
| 80 | Ab initio studies on clusters of polar molecules. stability of cyclic versus open-chain trimers of hydrogen fluoride. Chemical Physics Letters, 1983, 102, 289-291.                  | 1.2 | 44        |
| 81 | Ab initionumerical studies on density-matrix asymptotics in extended systems. Physical Review B, 1983, 27, 7583-7588.  | 1.1 | 14        |
| 82 | Ab Initio Calculations on the Ground State Properties of Polymers. Physica Scripta, 1982, T1, 79-87.   | 1.2 | 24        |
| 83 | AB initio studies on hydrogen bonded chains. II. Equilibrium geometry and vibrational spectra of the bent chain of hydrogen fluoride molecules. Chemical Physics, 1982, 64, 343-357. | 0.9 | 45        |
| 84 | Convergence problem inab initio crystal orbital calculations. International Journal of Quantum<br>Chemistry, 1981, 19, 1207-1214.  | 1.0 | 48        |
| 85 | Ab initio studies on polymers. V. Allâ€transâ€polyethylene. Journal of Chemical Physics, 1981, 75, 238-245.  | 1.2 | 115       |
| 86 | Ab initio studies on hydrogen bonded chains. I. Equilibrium geometry of the infinite, linear chain of<br>hydrogen fluoride molecules. Chemical Physics, 1980, 47, 401-406.           | 0.9 | 34        |
| 87 | Ab initio Studies on polymers. Theoretica Chimica Acta, 1979, 53, 65-74.   | 0.9 | 94        |
| 88 | Ab initio studies on infinite linear hydrogen fluoride chains. Chemical Physics Letters, 1976, 44,<br>459-464.   | 1.2 | 68        |
| 89 | Hydrogen bonding in long chains of hydrogen fluoride and long chains and large clusters of water molecules. Theoretica Chimica Acta, 1974, 34, 115-127.                              | 0.9 | 37        |