# Sean A Peebles

List of Publications by Year
in descending order



| 87 | 1,164 | 448610 19 | 591227 27 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 88 | 88 | 88 | 631 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rotational spectra and conformational analysis of 2-bromobutane. Journal of Molecular Structure, 2022, 1252, 132148. | 1.8 | 0 |
| 2 | Ïƒâ€“Hole activation and structural changes upon perfluorination of aryl halides: direct evidence from gas phase rotational spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 18093-18101. | 1.3 | 3 |
| 3 | Investigation of a polar form of fluoroethylene dimer, (C2H3F)2, by microwave spectroscopy. Journal of Molecular Structure, 2020, 1211, 128038. | 1.8 | 0 |
| 4 | Microwave Spectra and Structure of Arâ€“1,3-Difluorobenzene. Journal of Physical Chemistry A, 2018, 122, 7385-7390. | 1.1 | 13 |
| 5 | Towards microsolvation of fluorocarbons by CO2: Two isomers of fluoroethylene-(CO2)2 observed using chirped-pulse Fourier-transform microwave spectroscopy. Chemical Physics Letters, 2018, 706, 538-542. | 1.2 | 4 |
| 6 | Microwave spectrum, structure and dipole moment of 4-fluorophenylacetylene (4FPA). Journal of Molecular Structure, 2017, 1133, 320-328. | 1.8 | 2 |
| 7 | Rotational spectrum and structural analysis of CHâ‹¯F interactions in the vinyl fluorideâ‹¯1,1-difluoroethylene dimer. Journal of Molecular Spectroscopy, 2017, 335, 74-79. | 0.4 | 4 |
| 8 | Microwave spectrum of 1-bromobutane. Journal of Molecular Spectroscopy, 2016, 328, 50-58. | 0.4 | 5 |
| 9 | Rotational Spectrum, Structure, and Interaction Energy of the TrifluoroethyleneÂ·Â·Â·Carbon Dioxide Complex. Journal of Physical Chemistry A, 2016, 120, 7865-7872. | 1.1 | 7 |
| 10 | Effect of aromatic ring fluorination on CHâ‹¯Ï€ interactions: microwave spectrum and structure of the 1,2-difluorobenzeneâ‹¯acetylene dimer. Physical Chemistry Chemical Physics, 2016, 18, 24290-24298. | 1.3 | 4 |
| 11 | Microwave spectrum, structure and dipole moment of 3-fluorophenylacetylene (3FPA). Journal of Molecular Structure, 2016, 1125, 405-412. | 1.8 | 3 |
| 12 | Rotational Spectrum and Structure of the 1,1-DifluoroethyleneÂ·Â·Â·Carbon Dioxide Complex. Journal of Physical Chemistry A, 2016, 120, 247-253. | 1.1 | 8 |
| 13 | Alkynes as CH/Ï€ Acceptors: Microwave Spectra and Structures of the CH<sub>2</sub>F<sub>2</sub>Â·Â·Â·Propyne and CH<sub>2</sub>ClFÂ·Â·Â·Propyne Dimers. Journal of Physical Chemistry A, 2015, 119, 12999-13008. | 1.1 | 7 |
| 14 | Effect of fluorination on methyl internal rotation barriers: Microwave spectra of cyclopropylfluoromethyl silane (c-C3H5SiHFCH3) and cyclopropyldifluoromethyl silane (c-C3H5SiF2CH3). Journal of Molecular Spectroscopy, 2015, 318, 101-106. | 0.4 | 1 |
| 15 | Benzeneâ‹¯acetylene: a structural investigation of the prototypical CHâ‹¯Ï€ interaction. Physical Chemistry Chemical Physics, 2014, 16, 8886-8894. | 1.3 | 14 |
| 16 | Rotational Spectroscopic Studies of Câ€“HÂ·Â·Â·F Interactions in the Vinyl FluorideÂ·Â·Â·Difluoromethane Complex. Journal of Physical Chemistry A, 2014, 118, 1610-1616. | 1.1 | 25 |
| 17 | Characterization of Two Isomers of the Vinyl FluorideÂ·Â·Â·Carbon Dioxide Dimer by Rotational Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 8765-8772. | 1.1 | 10 |
| 18 | Effect of aromatic ring fluorination on CHâ‹¯Ï€ interactions: rotational spectrum and structure of the fluorobenzeneâ‹¯acetylene weakly bound dimer. Physical Chemistry Chemical Physics, 2013, 15, 18148. | 1.3 | 8 |

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| 19 | An investigation of the structure and large amplitude motions in the CH2F2â‹¯CO2 weakly bound dimer. Journal of Molecular Spectroscopy, 2013, 289, 65-73. | 0.4 | 8 |
| 20 | Microwave, infrared and Raman spectra, r structural parameters, ab initio calculations and vibrational assignment of 1-fluoro-1-silacyclopentane. Journal of Chemical Physics, 2012, 136, 044306. | 1.2 | 10 |
| 21 | Molecular Structure of Methyldifluoroisocyanato Silane: A Combined Microwave Spectral and Theoretical Study. Journal of Physical Chemistry A, 2012, 116, 7822-7829. | 1.1 | 5 |
| 22 | Microwave spectrum and structure of pentafluorobenzene. Journal of Molecular Structure, 2012, 1023, 149-153. | 1.8 | 4 |
| 23 | Reduced bandwidth chirped-pulse microwave spectroscopy for analysis of weakly bound dimers: Rotational spectrum and structural analysis of CH2ClFâ‹¯FHCCH2. Journal of Molecular Spectroscopy, 2012, 280, 61-67. | 0.4 | 13 |
| 24 | Câ€“HÂ·Â·Â·Ï€ Interactions in the CHBrF2Â·Â·Â·HCCH Weakly Bound Dimer. Journal of Physical Chemistry A, 2011, 115, 12228-12234. | 1.1 | 7 |
| 25 | Observation of a double Câ€“Hâ‹¯Ï€ interaction in the CH2ClFâ‹¯HCCH weakly bound complex. Physical Chemistry Chemical Physics, 2011, 13, 14043. | 1.3 | 10 |
| 26 | Microwave and vibrational spectra, ab initio calculations, conformational stabilities and assignments of the fundamentals of the Cs conformer of n-butylgermane. Journal of Molecular Structure, 2011, 985, 5-13. | 1.8 | 3 |
| 27 | Microwave and vibrational spectra, ab initio calculations, conformational stabilities and assignments of the fundamentals of the Cs conformer of n-butylsilane. Journal of Molecular Structure, 2011, 1003, 31-40. | 1.8 | 4 |
| 28 | Câ€“Hâ‹¯O interaction and water tunneling in the CHClF2â€“H2O dimer. Journal of Molecular Spectroscopy, 2011, 268, 7-15. | 0.4 | 19 |
| 29 | Rotational spectrum of three conformers of 3,3-difluoropentane: Construction of a 480MHz bandwidth chirped-pulse Fourier-transform microwave spectrometer. Journal of Molecular Spectroscopy, 2010, 261, 35-40. | 0.4 | 39 |
| 30 | Conformational stability, r0 structural parameters, barriers to internal rotation, vibrational assignments and ab initio calculations of c-C3H5GeH2CH3. Journal of Molecular Structure, 2010, 969, 55-68. | 1.8 | 5 |
| 31 | Rotational spectrum of five isotopologues of cyclopropylmethylgermane: Ab initio calculations, barrier to internal rotation and nuclear quadrupole coupling constants for the 73Ge nucleus. Journal of Molecular Structure, 2010, 981, 54-58. | 1.8 | 1 |
| 32 | The molecular structure of difluoroisocyanato silane: A combined microwave spectral and theoretical study. Journal of Molecular Structure, 2010, 983, 5-11. | 1.8 | 5 |
| 33 | Characterization of Câ€“Hâ‹¯Ï€ interactions in the structure of the CHClF2â€“HCCH weakly bound complex. Physical Chemistry Chemical Physics, 2010, 12, 14263. | 1.3 | 17 |
| 34 | Conformational stability, r0 structural parameters, barriers to internal rotation, vibrational spectra and ab initio calculations of c-C3H5SiH2CH3. Journal of Molecular Structure, 2009, 923, 1-12. | 1.8 | 11 |
| 35 | Microwave Spectra and Barrier to Internal Rotation in Cyclopropylmethylsilane. Journal of Physical Chemistry A, 2009, 113, 6077-6082. | 1.1 | 12 |
| 36 | Rotational Spectra and Conformational Analysis of Diethylsilane and Diethyldifluorosilane. Journal of Physical Chemistry A, 2009, 113, 3137-3142. | 1.1 | 5 |

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| 37 | Internal rotation effects in the pulsed jet rotational spectrum of the trifluoromethaneâ€“carbon dioxide dimer. Journal of Molecular Spectroscopy, 2008, 250, 1-7. | 0.4 | 12 |
| 38 | The pure rotational spectrum of pivaloyl chloride, (CH3)3CCOCl, between 800 and 18800MHz. Journal of Molecular Spectroscopy, 2008, 251, 378-383. | 0.4 | 8 |
| 39 | The 115Sn, 117Sn and 119Sn nuclear spin-rotation constants in stannous monoxide, SnO, and a new multi-isotopomer analysis. Journal of Molecular Spectroscopy, 2008, 248, 20-25. | 0.4 | 8 |
| 40 | Dimers of Fluorinated Methanes with Carbonyl Sulfide: The Rotational Spectrum and Structure of Difluoromethaneâ”OCS. Journal of Physical Chemistry A, 2008, 112, 12616-12621. | 1.1 | 14 |
| 41 | Microwave Spectrum, Dipole Moment, and Internal Dynamics of the Methyl Fluorideâ”Carbonyl Sulfide Weakly Bound Complex. Journal of Physical Chemistry A, 2008, 112, 1473-1479. | 1.1 | 9 |
| 42 | Oxygen-17 hyperfine structures in the pure rotational spectra of SrO, SnO, BaO, HfO and ThO. Physical Chemistry Chemical Physics, 2007, 9, 5897-901. | 1.3 | 5 |
| 43 | Concerning the electron density at the Pb nucleus in PbO as a function of bond length. Chemical Physics Letters, 2007, 449, 33-37. | 1.2 | 6 |
| 44 | Isotopic studies and refined structure for the dimethyl etherâ€“CS2 dimer. Journal of Molecular Structure, 2007, 830, 176-181. | 1.8 | 4 |
| 45 | Rotational Spectrum and Inversion Motions in the Neonâ”Dimethyl Sulfide Complex. Journal of Physical Chemistry A, 2006, 110, 7080-7085. | 1.1 | 7 |
| 46 | Rotational Spectrum and Structure of the Carbonyl Sulfideâ”Trifluoromethane Weakly Bound Dimer. Journal of Physical Chemistry A, 2006, 110, 11938-11943. | 1.1 | 9 |
| 47 | Heavy atom structure and conformer stabilities of cyclopropyl carbinol from rotational spectroscopy and ab initio calculations. Journal of Molecular Structure, 2005, 740, 133-142. | 1.8 | 6 |
| 48 | Tunneling motions and the barrier to inversion in the dimethyl etherâ€“CS2 van der Waals dimer. Chemical Physics Letters, 2005, 410, 77-81. | 1.2 | 9 |
| 49 | Rotational spectrum, structure and modeling of the OCSâ€“CS2van der Waals dimer. Physical Chemistry Chemical Physics, 2005, 7, 487-492. | 1.3 | 42 |
| 50 | Rotational Spectrum of the Dimethyl Etherâ”Acetylene Complex:Â Evidence for an EffectiveC2vGeometry. Journal of Physical Chemistry A, 2005, 109, 5316-5322. | 1.1 | 6 |
| 51 | An ab initio investigation of five conformers of 3-butyn-1-ol and the structure of the most stable species from microwave spectroscopy. Journal of Molecular Structure, 2004, 693, 167-174. | 1.8 | 15 |
| 52 | Structure of the Dimethyl Etherâ”CO2van der Waals Complex from Microwave Spectroscopy. Journal of Physical Chemistry A, 2004, 108, 11234-11240. | 1.1 | 36 |
| 53 | The Dimethyl Etherâ”OCS Dimer:â€‰ Rotational Spectrum, Structure, and Ab Initio Calculations. Journal of Physical Chemistry A, 2004, 108, 7372-7378. | 1.1 | 12 |
| 54 | Determination of the heavy atom structure of bromobenzene by rotational spectroscopy. Journal of Molecular Structure, 2003, 657, 107-116. | 1.8 | 16 |

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| 55 | The microwave spectrum, ab initio analysis, and structure of the fluorobenzeneâ€“hydrogen chloride complex. Journal of Chemical Physics, 2003, 118, 9278-9290. | 1.2 | 16 |
| 56 | Structures of Diethynyl Sulfide and Bis(phenylethynyl) Sulfide. Journal of Physical Chemistry A, 2002, 106, 12110-12116. | 1.1 | 17 |
| 57 | Rotational spectrum and dipole moment of 1-chloro-4-fluorobenzene. Journal of Molecular Structure, 2002, 607, 19-29. | 1.8 | 3 |
| 58 | Rotational spectrum and structure of the (OCS)2â€“C2H4 trimer: example of a polar OCS dimer. Journal of Molecular Structure, 2002, 612, 261-275. | 1.8 | 6 |
| 59 | Microwave Spectra and Molecular Structures of (Z)-Pent-2-en-4-ynenitrile and Maleonitrile. Journal of the American Chemical Society, 2001, 123, 12353-12363. | 6.6 | 39 |
| 60 | The rotational spectrum and structure of the chlorobenzeneâ€“neon van der Waals dimer. Journal of Molecular Structure, 2001, 599, 15-22. | 1.8 | 9 |
| 61 | Rotational spectrum, structure and internal motions of the ethylene-OCS weakly bound dimer. Molecular Physics, 2001, 99, 225-237. | 0.8 | 12 |
| 62 | Rotational spectrum and modeling of the OCSâ€“(HCCH) 2 trimer. Computational and Theoretical Chemistry, 2000, 500, 391-402. | 1.5 | 19 |
| 63 | Structure of the chlorobenzeneâ€“argon dimer: Microwave spectrum andab initioanalysis. Journal of Chemical Physics, 2000, 113, 9051-9059. | 1.2 | 32 |
| 64 | Rotational Spectrum and Structure of 1,2-Dichloro-3,3,4,4-tetrafluorocyclobutene:Â Comparison of Spectroscopy, Diffraction, and ab Initio Results. Journal of Physical Chemistry A, 2000, 104, 8702-8708. | 1.1 | 9 |
| 65 | Equilibrium Structure of cis-Hex-3-ene-1,5-diyne and Relevance to the Bergman Cyclization. Journal of the American Chemical Society, 2000, 122, 939-949. | 6.6 | 76 |
| 66 | Rotational spectrum, structure and modeling of the SO2â€“CS2 complex. Journal of Chemical Physics, 1999, 110, 6804-6811. | 1.2 | 17 |
| 67 | Rotational spectrum, structure, and modeling of the HCCHâ€“(OCS)2 trimer: Observation of a polar OCS dimer fragment. Journal of Chemical Physics, 1999, 111, 10511-10519. | 1.2 | 24 |
| 68 | Rotational spectrum, structure and modeling of the SO 2 â€“OCS complex. Journal of Molecular Structure, 1999, 485-486, 211-223. | 1.8 | 10 |
| 69 | The rotational spectrum of the acetyleneâ€“carbonyl sulfide trimer: HCCHâ€“(OCS)2. Chemical Physics Letters, 1999, 308, 21-25. | 1.2 | 12 |
| 70 | Rotational spectrum, structure and modeling of an isomer of the HCCHâ€“OCS dimer. Chemical Physics Letters, 1999, 312, 357-361. | 1.2 | 20 |
| 71 | Microwave Spectrum and Structure of the Acetyleneâ‹¯OCS Dimer. Journal of Physical Chemistry A, 1999, 103, 3884-3889. | 1.1 | 25 |
| 72 | Isotopic Studies, Structure and Modeling of the Nitrous Oxideâ‹¯Acetylene Complex. Journal of Physical Chemistry A, 1999, 103, 10813-10818. | 1.1 | 23 |

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| 73 | Microwave spectrum and structure of the (CO<sub>2</sub>)<sub>2</sub>N<sub>2</sub>O complex. Molecular Physics, 1999, 96, 1355-1365. | 0.8 | 12 |
| 74 | Rotational spectrum and structure of the OCSâ€“(CO2)2 trimer. Chemical Physics Letters, 1998, 286, 421-424. | 1.2 | 20 |
| 75 | The structure and dipole moment of the argonÂ·fluorobenzene dimer. Journal of Molecular Structure, 1998, 446, 55-61. | 1.8 | 24 |
| 76 | Application of interaction models to complexes of sulfur dioxide. Journal of Molecular Structure, 1998, 447, 151-158. | 1.8 | 19 |
| 77 | The structure of the boron trifluorideâ€“sulfur dioxide complex. Journal of Molecular Structure, 1998, 471, 235-242. | 1.8 | 17 |
| 78 | Rotational Spectrum and Structure of the (OCS)2â‹¯CO2 Trimer. Journal of Physical Chemistry A, 1998, 102, 8091-8096. | 1.1 | 31 |
| 79 | Aromaticâ‹¯Rare Gas Complexes:Â The Microwave Spectrum and Structure of the Fluorobenzeneâ‹¯Neon Dimer. Journal of Physical Chemistry A, 1998, 102, 10630-10635. | 1.1 | 18 |
| 80 | Rotational spectrum and structure of the OCSâ€“(CO2)2 trimer. Journal of Chemical Physics, 1998, 109, 5276-5282. | 1.2 | 30 |
| 81 | A Sternheimer-like response property of the bromine molecule: electric field dependence of the Br field gradient. Advances in Quantum Chemistry, 1997, 28, 247-256. | 0.4 | 7 |
| 82 | The structure of the cyclopropaneÂ·methanol complex. Journal of Molecular Structure, 1997, 413-414, 255-263. | 1.8 | 3 |
| 83 | An electrostatic interaction model applied to complexes of sulfur dioxide. Journal of Molecular Structure, 1997, 436-437, 59-67. | 1.8 | 4 |
| 84 | A distributed electrostatic model for field gradients at nuclei in van der Waals molecules: application to complexes of HCl. Chemical Physics Letters, 1995, 232, 437-444. | 1.2 | 17 |
| 85 | Electric and magnetic properties of the BrCl molecule. Chemical Physics Letters, 1995, 238, 163-167. | 1.2 | 10 |
| 86 | Anisotropic repulsion in complexes B.Cl2 and B.HCl: The shape of the chlorine atom-in-a-molecule. Chemical Physics Letters, 1995, 240, 130-134. | 1.2 | 38 |
| 87 | Rotational spectrum of HCNâ€¦HI and a comparison of properties in the series HCNâ€¦HX (X=F, Cl, Br, I) Tj ETQq1 1 0.784314 rgBT /Ov | 1.2 | 25 |