

Konstantin S Rutkowski

List of Publications by Year in descending order

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55
papers

756
citations

623734

14
h-index

552781

26
g-index

55
all docs

55
docs citations

55
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryospectroscopic evidence of trimer formation between halothane and trimethylamine, stabilized by hydrogen and halogen bonds. <i>Journal of Molecular Structure</i> , 2021, 1243, 130766.	3.6	0
2	Evidence of noncovalent interactions between sevoflurane and dimethyl ether. FTIR cryospectroscopic and ab initio studies. <i>Journal of Molecular Structure</i> , 2020, 1221, 128852.	3.6	1
3	Spectral Diagnostics of the Dynamics of the Formation of a Homoconjugated Complex [HCN.H.NCH] ⁺ . <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 467-469.	0.6	1
4	IR cryospectroscopic manifestation of complex formation between methoxyflurane and dimethyl ether in liquid Xe. <i>Chemical Physics Letters</i> , 2020, 742, 137134.	2.6	1
5	Noncovalent interactions between isoflurane and dimethyl ether. Spectroscopic evidence of trimer formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117363.	3.9	3
6	Identification of H-Bonds in a Calcified Aortic Valve. <i>Technical Physics Letters</i> , 2019, 45, 927-929.	0.7	2
7	Spectroscopic evidence of weak complex formation between N,N-dimethylformamide and fluoroform in the gas phase. <i>Journal of Molecular Structure</i> , 2018, 1160, 328-332.	3.6	4
8	Cryosolution infrared study of hydrogen bonded halothane acetylene complex. <i>Journal of Molecular Structure</i> , 2018, 1160, 434-439.	3.6	3
9	The infrared study of fluoroform- ⁺ methyl fluoride mixtures in argon and nitrogen matrices. Evidence of nonlinear blue-shifting complex formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 203, 185-194.	3.9	6
10	Conformational origin of temperature changes in the IR spectrum of isoflurane. A cryosolution and ab initio study. <i>Journal of Molecular Structure</i> , 2017, 1134, 374-380.	3.6	5
11	IR spectra of halothane-acetone complex in liquefied noble gases (Kr and Xe). <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017, 123, 30-37.	0.6	5
12	FTIR cryospectroscopic and ab initio studies of desflurane-dimethyl ether H-bonded complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 163-168.	3.9	7
13	Investigation of the IR spectra of weakly hydrogen-bonded complex Cl ₃ CH ⁺ O(CD ₃) ₂ in a cryosolution in liquid krypton. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016, 120, 242-249.	0.6	5
14	Degeneracy Lifting Effect in the FTIR Spectrum of Fluoroform Trapped in a Nitrogen Matrix. An Experimental and Car-Parrinello Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3497-3503.	2.5	7
15	FTIR and Raman spectra of CH(D)FCICF ₂ OCHF derivatives of enflurane. Experimental and ab initio study. <i>Chemical Physics</i> , 2015, 453-454, 26-34.	1.9	11
16	Vibrational spectra and conformational analysis of desflurane. A cryosolution and ab initio study. <i>Chemical Physics Letters</i> , 2015, 637, 77-82.	2.6	5
17	Infrared spectroscopy and ab initio study of hydrogen bonded Cl ₃ CD ⁺ N(CH ₃) ₃ complex in the gas phase. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 95-99.	3.9	8
18	Towards understanding the spectroscopic features of enflurane. The fundamental and overtone bands of CH stretching vibrations. <i>Chemical Physics Letters</i> , 2014, 604, 68-71.	2.6	13

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19	The gas phase FTIR studies of chloroform+B and halothane+B (B=TMA, FCD3) mixtures. Journal of Molecular Structure, 2014, 1072, 32-37.	3.6	12
20	Spectroscopic evidence of reversible micro-crystallization of carbon dioxide dissolved in solid xenon. Chemical Physics Letters, 2013, 583, 54-59.	2.6	1
21	FTIR study of the hydrogen bond symmetry in protonated homodimers of pyridine and collidine in solution. Journal of Molecular Structure, 2012, 1018, 39-44.	3.6	27
22	The Sâ€ˆHâ€ˆN versus Oâ€ˆHâ€ˆN hydrogen bonding in the ammonia complexes with CH3OH and CH3SH. Journal of Molecular Structure, 2012, 1009, 96-102.	3.6	26
23	Strong and weak effects caused by non covalent interactions between chloroform and selected electron donor molecules. Physical Chemistry Chemical Physics, 2011, 13, 14223.	2.8	32
24	First-principles study of fluoroform adsorption on a hexagonal ice (0001) surface: weak hydrogen bondsâ€ˆstrong structural effects. Physical Chemistry Chemical Physics, 2011, 13, 14101.	2.8	12
25	Cryospectroscopic and ab initio anharmonic studies of acetyleneâ€ˆtrimethylamine H-bonded complex. Chemical Physics, 2010, 375, 92-100.	1.9	8
26	Cooperative effects in blue-shifted hydrogen bonded cluster of from first principles simulations. Chemical Physics, 2009, 361, 129-136.	1.9	10
27	Cryospectroscopic and ab initio studies of haloformâ€ˆtrimethylamine H-bonded complexes. Physical Chemistry Chemical Physics, 2009, 11, 1551.	2.8	30
28	Solvent effect on the blue shifted weakly H-bound F3 CHâ€ˆFCD3 complex. Journal of Molecular Structure, 2008, 880, 64-68.	3.6	24
29	A cryosolution FTIR and ab initio study of the blue shifting Câ€ˆHâ€ˆF hydrogen bonded complexes F2ClCHâ€ˆFCD3 and Cl2FCHâ€ˆFCD3. Chemical Physics, 2008, 354, 71-79.	1.9	18
30	FTIR studies of HCl dissolved in liquid CO: Anharmonic effects in the weak OCâ€ˆHCl complex. Journal of Molecular Structure, 2007, 844-845, 64-69.	3.6	1
31	Theoretical study of Hal3CH/F2CD2 (Hal=F,Cl) and F3CH/FH heterodimers with blue shifted hydrogen bonds. Chemical Physics, 2006, 327, 193-201.	1.9	10
32	Carâ€ˆParrinello Molecular Dynamics Study of the Blue-Shifted F3CHâ€ˆ...â€ˆFCD3 System in Liquid N2. ChemPhysChem, 2006, 7, 1221-1228.	2.1	12
33	Infrared spectra and relative stability of the F3CH/NH3 H-bonded complex in liquefied Xe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1595-1602.	3.9	24
34	Blue shifted F3CHâ€ˆFCD3 and Cl3CHâ€ˆFCD3 weakly H-bound complexes. Cryospectroscopic and ab initio study. Chemical Physics, 2005, 313, 225-243.	1.9	59
35	Car-Parrinello Molecular Dynamics Study of a Blue-Shifted Intermolecular Weak-Hydrogen-Bond System. ChemPhysChem, 2005, 6, 1719-1724.	2.1	14
36	Ab Initio Studies of Electron Acceptor-Donor Interactions with Blue- and Red-Shifted Hydrogen Bonds. ChemPhysChem, 2005, 6, 1282-1292.	2.1	59

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37	A Cryosolution Infrared Study of the Complexes of Fluoroform with Ammonia and Pyridine: Evidence for a C-H...N Pseudo Blue-Shifting Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3038-3044.	2.5	63
38	Comparative studies of blue shifting and red shifting effects in fluoroform and acetylene cryogenic solutions. <i>Journal of Molecular Structure</i> , 2004, 705, 49-61.	3.6	29
39	CH...B interactions in acetylene containing solutions: experimental and theoretical DFT studies. <i>Journal of Molecular Structure</i> , 2003, 645, 295-302.	3.6	6
40	Infrared studies of acetylene dissolved in liquefied Ar, Kr, N ₂ , CO, and CO ₂ . <i>Journal of Molecular Structure</i> , 2002, 614, 305-313.	3.6	18
41	Unusual spectroscopic properties of CF ₃ H dissolved in liquified Ar, N ₂ , CO, and CO ₂ . <i>Chemical Physics Letters</i> , 2002, 352, 301-310.	2.6	69
42	Spectroscopic manifestation of molecular rotation dynamics in dense media: CO fundamental band in liquid and solid CO-Kr and CO-Xe solutions. <i>Journal of Molecular Liquids</i> , 2001, 92, 251-261.	4.9	4
43	Evolution of IR spectra of a weakly-bound OCO...HCl complex with increasing CO ₂ density from the gas to liquid phase. <i>Journal of Molecular Structure</i> , 2001, 598, 205-211.	3.6	3
44	Infrared studies of CO ₂ doped Xe solutions in gas, liquid and solid phases. The fundamental ν_3 band and the Coriolis perturbed Fermi doublet ($\nu_2 + \nu_3$, $\nu_2 + \nu_3$). <i>Journal of Molecular Structure</i> , 2001, 596, 179-183.	3.6	2
45	Effect of liquid to solid phase transition on rotational and vibrational broadening of vibrational bands of CF ₃ Cl in Xe solutions. <i>Vibrational Spectroscopy</i> , 2000, 24, 277-286.	2.2	5
46	IR spectra of CH ₃ F in liquid and solid noble gas solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 1813-1818.	3.9	1
47	Shape of the IR bands of CH ₄ : The CH ₄ -Kr system in different phase states. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2000, 88, 169-175.	0.6	0
48	Higher-order transitions in the IR spectrum of the weak OCO...HCl complex dissolved in liquid CO. <i>Chemical Physics Letters</i> , 2000, 325, 425-432.	2.6	12
49	Vibrational spectra of OCO...HCl complex in Kr solutions at liquid to solid phase transition. <i>Journal of Molecular Structure</i> , 1999, 511-512, 233-240.	3.6	7
50	Infrared studies of weak B...HCl (B = HCl, CO, Xe, N ₂) complex formation in solid Kr solutions. <i>Journal of Molecular Structure</i> , 1998, 448, 231-237.	3.6	14
51	IR...IR double-resonance studies of vibrational relaxation of CD ₃ F in solid and liquid Xe, Kr, Ar solutions near the melting point. <i>Chemical Physics</i> , 1998, 237, 403-411.	1.9	1
52	Temperature dependence studies and model calculations of ν_2 (OH) and ν_2 (OD) band shapes of salicylaldehyde. <i>Journal of Molecular Structure</i> , 1996, 381, 141-148.	3.6	12
53	Temperature dependence of the ν_2 (OH) band shape of ortho-Mannich bases in gas phase and liquid xenon solution. <i>Vibrational Spectroscopy</i> , 1994, 7, 265-274.	2.2	10
54	Gas phase IR spectra of systems with intramolecular hydrogen bonds. <i>Journal of Molecular Structure</i> , 1994, 322, 195-203.	3.6	34

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55	Vibrational relaxation studies of systems with strong intermolecular interactions at low temperatures in the gas phase and in cryogenic solutions. <i>Advances in Molecular Relaxation and Interaction Processes</i> , 1982, 22, 223-231.	0.5	0