Alexandra V Domanskaya

List of Publications by Year
in descending order

42	954	471509 17	454955 30
papers	citations	h-index	g-index

45	45	45	746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formic and acetic acids in a nitrogen matrix: Enhanced stability of the higher-energy conformer. Journal of Chemical Physics, 2010, 133, 144507.	3.0	83
2	Matrix-Isolation and ab Initio Study of HNgCCF and HCCNgF Molecules (Ng = Ar, Kr, and Xe). Journal of Physical Chemistry A, 2010, 114, 4181-4187.	2.5	83
3	Communication: The highest frequency hydrogen bond vibration and an experimental value for the dissociation energy of formic acid dimer. Journal of Chemical Physics, 2012, 136, 151101.	3.0	76
4	Matrix Isolation and Ab Initio Study of Transâ^'Trans and Transâ^'Cis Dimers of Formic Acid. Journal of Physical Chemistry A, 2010, 114, 3495-3502.	2.5	74
5	HXeOBr in a xenon matrix. Journal of Chemical Physics, 2011, 134, 124307.	3.0	58
6	Halogenated Xenon Cyanides ClXeCN, ClXeNC, and BrXeCN. Inorganic Chemistry, 2012, 51, 4398-4402.	4.0	58
7	Spectroscopic study of cis-to-trans tunneling reaction of HCOOD in rare gas matrices. Journal of Chemical Physics, 2009, 130, 154509.	3.0	51
8	Conformation-Dependent Chemical Reaction of Formic Acid with an Oxygen Atom. Journal of Physical Chemistry A, 2009, 113, 8143-8146.	2.5	33
9	Matrix-isolation and ab initio study of HXeCCH complexed with acetylene. Chemical Physics Letters, 2009, 481, 83-87.	2.6	32
10	HYâ‹¯N2 and HXeYâ‹¯N2 complexes in solid xenon (Y=Cl and Br): Unexpected suppression of the complex formation for deposition at higher temperature. Journal of Chemical Physics, 2010, 133, 084309.	3.0	32
11	Matrix-Isolation and Ab Initio Study of the HKrClÂ·Â·Â·HCl Complex. Journal of Physical Chemistry A, 2009, 113, 10687-10692.	2.5	31
12	Vibrational spectroscopy of trans and cis deuterated formic acid (HCOOD): Anharmonic calculations and experiments in argon and neon matrices. Journal of Molecular Spectroscopy, 2010, 259, 105-110.	1.2	31
13	Matrix-isolation study of the phenolâ€“water complex and phenol dimer. Chemical Physics Letters, 2011, 517, 9-15.	2.6	26
14	High-resolution spectroscopy and global analysis of CF 4 rovibrational bands to model its atmospheric absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 75-93.	2.3	25
15	High-resolution spectroscopy and analysis of the Î½₃/2Î½₄dyad of CF₄. Molecular Physics, 2011, 109, 2273-2290.	1.7	22
16	High-resolution FTIR measurement of the line parameters in the fundamental band of HI. Journal of Molecular Spectroscopy, 2003, 218, 75-79.	1.2	21
17	Interaction of phenol with xenon and nitrogen: Spectroscopic and computational characterization. Journal of Chemical Physics, 2012, 137, 134305.	3.0	18
18	Microscopic Roots of Alcoholâ€“Ketone Demixing: Infrared Spectroscopy of Methanolâ€“Acetone Clusters. Journal of Physical Chemistry A, 2015, 119, 2225-2232.	2.5	18

#	Article	IF	Citations
19	Spectral line parameters in the (2â†0) overtone band and the dipole moment function of the HI molecule. Journal of Molecular Spectroscopy, 2004, 223, 67-72.	1.2	16
20	Continuous-wave laser annealing of Si-rich oxide: A microscopic picture of macroscopic Siî—¸SiO2 phase separation. Journal of Applied Physics, 2010, 108, .	2.5	15
21	An experimental study of interaction-induced effects in the IR spectra of HIâ€“Xe gas mixtures. Molecular Physics, 2006, 104, 2685-2690.	1.7	14
22	Spectral line parameters in the (3â†0) overtone band of the HI molecule and line-mixing in the band head. Journal of Molecular Spectroscopy, 2005, 230, 87-92.	1.2	13
23	Self-broadening and shifting of HI lines in the 1-0 and 2-0 infrared bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 151-163.	2.3	12
24	Pressure broadening and shifting parameters for the spectral lines in the fundamental vibrationâ€“rotation bands of HBr and HI in mixtures with rare gases. Journal of Molecular Spectroscopy, 2007, 243, 155-161.	1.2	9
25	He-broadening and shifting coefficients of HCl lines in the (1â†0) and (2â†0) infrared transitions. Molecular Physics, 2018, 116, 3495-3502.	1.7	9
26	Infrared spectrum of elusive C2F radical: A matrix-isolation and computational study. Chemical Physics Letters, 2010, 493, 220-224.	2.6	8
27	Acetic acid dimers in a nitrogen matrix: Observation of structures containing the higher-energy conformer. Journal of Chemical Physics, 2015, 143, 104307.	3.0	8
28	Broadening and shift coefficients for the (2â†0) overtone band of HCl (1.76 Âµm) induced by exhaust gases CO and CO2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 434-439.	2.3	8
29	Broadening and shifting coefficients of rotationâ€“vibrational lines in the fundamental and first overtone bands of HCl and HBr induced by oxygen and air. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 296-303.	2.3	7
30	Degeneracy Lifting Effect in the FTIR Spectrum of Fluoroform Trapped in a Nitrogen Matrix. An Experimental and Carâ€“Parrinello Molecular Dynamics Study. Journal of Physical Chemistry A, 2016, 120, 3497-3503.	2.5	7
31	Collision-induced line parameters for the (2 â†•0) overtone band of HCl (1.76 Âµm) in binary mixtures with H2 and CH4. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 199, 71-76.	2.3	7
32	Intra- and intermolecular components of the Î½2forbidden band of CF4in pure gas and in He, Ar, Xe and N2mixtures. Molecular Physics, 2004, 102, 1851-1857.	1.7	6
33	Pressure broadening and shifting parameters for the spectral lines in the first overtone vibrationâ€“rotation bands of HBr and HI in mixtures with rare gases. Journal of Molecular Spectroscopy, 2009, 253, 20-24.	1.2	6
34	Modelling of the rotational relaxation matrix in line-mixing effect calculations. Molecular Physics, 2004, 102, 1843-1850.	1.7	5
35	Structure and broadening coefficients (He, Ar and N2) of the Î½4 band of CF4. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 86, 425-436.	2.3	5
36	A study of molecular rotation in dense fluids from the first vibrational overtone band shape of HCl in Xe fluid. Physical Chemistry Chemical Physics, 2004, 6, 725-729.	2.8	5

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37	The other conformer of peroxyformic acid. Molecular Physics, 2010, 108, 2369-2375.	1.7	5
38	New experimental measurements and theoretical analysis of the collision-induced absorption in N2â€“H2 pairs. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 489-498.	2.3	4
39	Nitrogen-induced broadening and shifts of rotation-vibrational lines in the fundamental, first, second and third overtone bands of HI. Journal of Molecular Spectroscopy, 2011, 265, 69-73.	1.2	4
40	Spectral line parameters in the (4â†0) overtone band and the dipole moment function of HI. Journal of Molecular Spectroscopy, 2009, 256, 75-79.	1.2	3
41	Nitrogen-induced broadening and shift coefficients of rotationâ€“vibrational lines in the fundamental and first overtone bands of HCl and HBr. Journal of Molecular Spectroscopy, 2012, 282, 9-13.	1.2	3
42	CH4 broadening and shifting coefficients in the Fermi triad of 12C16O2 in the 2ÂÂµm region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 209-216.	2.3	3