# 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Microscopic Roots of Alcoholâ€“Ketone Demixing: Infrared Spectroscopy of Methanolâ€“Acetone Clusters. Journal of Physical Chemistry A, 2015, 119, 2225-2232. | 2.5 | 18 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Interaction of phenol with xenon and nitrogen: Spectroscopic and computational characterization. Journal of Chemical Physics, 2012, 137, 134305. | 3.0 | 18 |
| 13 | Halogenated Xenon Cyanides ClXeCN, ClXeNC, and BrXeCN. Inorganic Chemistry, 2012, 51, 4398-4402. | 4.0 | 58 |
| 14 | HXeOBr in a xenon matrix. Journal of Chemical Physics, 2011, 134, 124307. | 3.0 | 58 |
| 15 | Matrix-isolation study of the phenolâ€“water complex and phenol dimer. Chemical Physics Letters, 2011, 517, 9-15. | 2.6 | 26 |
| 16 | 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 |
| 17 | High-resolution spectroscopy and analysis of the Î½<sub>3</sub>/2Î½<sub>4</sub>dyad of CF<sub>4</sub>. Molecular Physics, 2011, 109, 2273-2290. | 1.7 | 22 |
| 18 | Infrared spectrum of elusive C2F radical: A matrix-isolation and computational study. Chemical Physics Letters, 2010, 493, 220-224. | 2.6 | 8 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | The other conformer of peroxyformic acid. Molecular Physics, 2010, 108, 2369-2375. | 1.7 | 5 |
| 26 | Spectroscopic study of cis-to-trans tunneling reaction of HCOOD in rare gas matrices. Journal of Chemical Physics, 2009, 130, 154509. | 3.0 | 51 |
| 27 | Matrix-isolation and ab initio study of HXeCCH complexed with acetylene. Chemical Physics Letters, 2009, 481, 83-87. | 2.6 | 32 |
| 28 | 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 |
| 29 | 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 |
| 30 | Conformation-Dependent Chemical Reaction of Formic Acid with an Oxygen Atom. Journal of Physical Chemistry A, 2009, 113, 8143-8146. | 2.5 | 33 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Modelling of the rotational relaxation matrix in line-mixing effect calculations. Molecular Physics, 2004, 102, 1843-1850. | 1.7 | 5 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |