

# Irina I Mizus

## List of Publications by Year in descending order

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14  
papers

617  
citations

840776

11  
h-index

1125743

13  
g-index

14  
all docs

14  
docs citations

14  
times ranked

543  
citing authors

#	ARTICLE	IF	CITATIONS
1	IUPAC critical evaluation of the rotational-vibrational spectra of water vapor, Part III: Energy levels and transition wavenumbers for H <sub>2</sub> O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 117, 29-58.	2.3	215
2	Precision Measurements and Computations of Transition Energies in Rotationally Cold Triatomic Hydrogen Ions up to the Midvisible Spectral Range. <i>Physical Review Letters</i> , 2012, 108, 023002.	7.8	88
3	Calibration-quality adiabatic potential energy surfaces for H <sub>3</sub> <sup>+</sup> and its isotopologues. <i>Journal of Chemical Physics</i> , 2012, 136, 184303.	3.0	72
4	Optimized semiempirical potential energy surface for H <sub>2</sub> O up to 26000 cm <sup>-1</sup> . <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011, 110, 160-166.	0.6	51
5	Global spectroscopy of the water monomer. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2728-2748.	3.4	34
6	Spectroscopy of H <sub>3</sub> <sup>+</sup> based on a new high-accuracy global potential energy surface. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5014-5027.	3.4	33
7	ExoMol molecular line lists - XX. A comprehensive line list for H <sub>3</sub> <sup>+</sup> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1717-1725.	4.4	32
8	High-accuracy water potential energy surface for the calculation of infrared spectra. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170149.	3.4	29
9	A global potential energy surface for H <sub>3</sub> <sup>+</sup> . <i>Molecular Physics</i> , 2019, 117, 1663-1672.	1.7	18
10	Communication: Visible line intensities of the triatomic hydrogen ion from experiment and theory. <i>Journal of Chemical Physics</i> , 2014, 141, 241104.	3.0	16
11	Potential energy surface, dipole moment surface and the intensity calculations for the 10 μm, 5 μm and 3 μm bands of ozone. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 210, 127-135.	2.3	14
12	A new spectroscopically-determined potential energy surface and ab initio dipole moment surface for high accuracy HCN intensity calculations. <i>Journal of Molecular Spectroscopy</i> , 2018, 353, 40-53.	1.2	10
13	Bremsstrahlung from collisions of low-energy electrons with positive ions in a magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2009, 108, 917-927.	0.9	5
14	Strong linear polarization of bremsstrahlung emissivity in photospheres of magnetic white dwarfs. <i>Journal of Physics: Conference Series</i> , 2009, 172, 012052.	0.4	0