Nikodem Stolarczyk

List of Publications by Year
in descending order

12	131	1163117 8	1372567 10
papers	citations	h-index	g-index

12	12	12	107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrahigh finesse cavity-enhanced spectroscopy for accurate tests of quantum electrodynamics for molecules. Optics Letters, 2020, 45, 1603.	3.3	26
2	Evaluation of different parameterizations of temperature dependences of the line-shape parameters based on ab initio calculations: Case study for the HITRAN database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106676.	2.3	25
3	The first comprehensive dataset of beyond-Voigt line-shape parameters from ab initio quantum scattering calculations for the HITRAN database: He-perturbed H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> case study. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107477.	2.3	21
4	Ab initio line-shape calculations for the S and O branches of H2 perturbed by He. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 219, 313-322.	2.3	20
5	Accurate calculations of beyond-Voigt line-shape parameters from first principles for the He-perturbed HD rovibrational lines: A comprehensive dataset in the HITRAN DPL format. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107911.	2.3	9
6	Ab initio calculations of collisional lineâ€“shape parameters and generalized spectroscopic cross-sections for rovibrational dipole lines in HD perturbed by He. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107194.	2.3	8
7	CO-Ar collisions: ab initio model matches experimental spectra at a sub percent level over a wide pressure range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107807.	2.3	8
8	Collisional line-shape effects in accurate He-perturbed H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107951.	2.3	8
9	Comb-locked cavity ring-down spectroscopy with variable temperature. Optics Express, 2019, 27, 37559.	3.4	4
10	Inhomogeneous broadening, narrowing and shift of molecular lines under frequent velocity-changing collisions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 287, 108246.	2.3	2
11	Ab initio quantum calculations of collisional effects in molecular spectra. Journal of Physics: Conference Series, 2020, 1412, 132040.	0.4	0
12	Ab initio investigation of the line-shape parameters for atmosphere-relevant molecular systems. Journal of Physics: Conference Series, 2020, 1412, 132033.	0.4	0