

Ha Tran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/137423/publications.pdf>

Version: 2024-02-01

77
papers

6,634
citations

201385

27
h-index

66788

78
g-index

79
all docs

79
docs citations

79
times ranked

4627
citing authors

#	ARTICLE	IF	CITATIONS
1	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107949.	1.1	770
2	Molecular dynamics simulations of pressure-broadened symmetric-top gas spectra. Application to CH ₃ F-Ar and CH ₃ F-He mixtures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 278, 108031.	1.1	1
3	Absorption of methane broadened by carbon dioxide in the 3.3-4 μm spectral region: From line centers to the far wings. <i>Icarus</i> , 2022, 384, 115093.	1.1	2
4	Validation of spectroscopic data in the 1.27 μm spectral region by comparisons with ground-based atmospheric measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 261, 107495.	1.1	4
5	Air-broadened N ₂ O line-shape parameters and their temperature dependences by requantized classical molecular dynamics simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 267, 107607.	1.1	3
6	Temperature Dependence of the Collision-Induced Absorption Band of O ₂ Near 1.27 μm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034860.	1.2	6
7	High sensitivity spectroscopy of the O ₂ band at 1.27 μm: (II) air-broadened line profile parameters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 240, 106673.	1.1	11
8	Line-shape parameters and their temperature dependences predicted from molecular dynamics simulations for O ₂ - and air-broadened CO ₂ lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106729.	1.1	11
9	Revising the line-shape parameters for air- and self-broadened CO ₂ lines toward a sub-percent accuracy level. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107283.	1.1	18
10	Note on the two possible formulations of the Hartmann-Tran line profile. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 233, 76-77.	1.1	4
11	Accurate absorption spectroscopy of water vapor near 1.64 μm in support of the MEthane Remote Lidar mission (MERLIN). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 332-342.	1.1	18
12	The CO ₂ -broadened H ₂ O continuum in the 100-1500 cm ⁻¹ region: Measurements, predictions and empirical model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 230, 75-80.	1.1	7
13	Update of the HITRAN collision-induced absorption section. <i>Icarus</i> , 2019, 328, 160-175.	1.1	105
14	Measurement and Modeling of Air-Broadened Methane Absorption in the MERLIN Spectral Region at Low Temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3556-3564.	1.2	17
15	Prediction of high-order line-shape parameters for air-broadened O ₂ lines using requantized classical molecular dynamics simulations and comparison with measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 222-223, 108-114.	1.1	14
16	Far infrared measurements of absorptions by CH ₄ -CO ₂ and H ₂ -CO ₂ mixtures and implications for greenhouse warming on early Mars. <i>Icarus</i> , 2019, 321, 189-199.	1.1	31
17	Measurements and modeling of absorption by CO ₂ -H ₂ O mixtures in the spectral region beyond the CO ₂ band head. <i>Icarus</i> , 2018, 306, 116-121.	1.1	15
18	Effect of humidity on the absorption continua of CO ₂ and N ₂ near 4 μm: Calculations, comparisons with measurements, and consequences for atmospheric spectra. <i>Journal of Chemical Physics</i> , 2018, 148, 054304.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Precise predictions of H ₂ O line shapes over a wide pressure range using simulations corrected by a single measurement. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 207, 16-22.	1.1	4
20	Recent advances in collisional effects on spectra of molecular gases and their practical consequences. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 213, 178-227.	1.1	85
21	Prediction of line shape parameters and their temperature dependences for CO ₂ -N ₂ using molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2018, 149, 224301.	1.2	10
22	Indirect Influence of Humidity on Atmospheric Spectra Near 4¼m. <i>Geophysical Research Letters</i> , 2018, 45, 12,593-12,601.	1.5	6
23	Spectral shapes of rovibrational lines of CO broadened by He, Ar, Kr and SF ₆ : A test case of the Hartmann-Tran profile. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 325-333.	1.1	19
24	Super- and sub-Lorentzian effects in the Ar-broadened line wings of HCl gas. <i>Journal of Chemical Physics</i> , 2017, 146, 194305.	1.2	15
25	Broadening and shift coefficients for the (2 ν_1) overtone band of HCl (1.76 Åm) induced by exhaust gases CO and CO ₂ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 434-439.	1.1	8
26	The CO ₂ absorption continuum by high pressure CRDS in the 1.74 Åm window. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 530-537.	1.1	10
27	Molecular dynamic simulations of N ₂ -broadened methane line shapes and comparison with experiments. <i>Journal of Chemical Physics</i> , 2017, 146, 094305.	1.2	4
28	Comment on "Ortho-Para-Dependent Pressure Effects Observed in the Near Infrared Band of Acetylene by Dual-Comb Spectroscopy". <i>Physical Review Letters</i> , 2017, 119, 069401.	2.9	5
29	The HITRAN2016 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 3-69.	1.1	2,840
30	Comment on "Radiative Transfer in CO ₂ -Rich Atmospheres: 1. Collisional Line Mixing Implies a Colder Early Mars". <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2362-2365.	1.5	13
31	Precise methane absorption measurements in the 1.64¼m spectral region for the MERLIN mission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7360-7370.	1.2	50
32	The implementation of non-Voigt line profiles in the HITRAN database: H ₂ case study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 75-91.	1.1	64
33	Broadening of CO ₂ lines in the 4.3¼m region by H ₂ O. <i>Journal of Molecular Spectroscopy</i> , 2016, 326, 17-20.	0.4	13
34	Isolated line shape of methane with various collision partners. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 185, 27-36.	1.1	13
35	Measurements of H ₂ O-broadening coefficients of O ₂ A-band lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 184, 316-321.	1.1	4
36	Measurements of H ₂ O broadening coefficients of infrared methane lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 173, 40-48.	1.1	16

#	ARTICLE	IF	CITATIONS
37	Infrared light on molecule-molecule and molecule-surface collisions. Physical Review A, 2015, 92, .	1.0	4
38	Spectral shape parameters of pure CO ₂ transitions near 1.6 μm by tunable diode laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 82-88.	1.1	18
39	O ₂ -broadening coefficients of acetylene lines in the $\hat{v}_2 + \hat{v}_5$ band at room temperature. Journal of Molecular Spectroscopy, 2015, 314, 48-53.	0.4	3
40	Application of the Hartmann-Tran profile to analysis of H ₂ O spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 221-230.	1.1	39
41	High pressure Cavity Ring Down Spectroscopy: Application to the absorption continuum of CO ₂ near 1.7 μm . Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 97-104.	1.1	15
42	Recommended isolated-line profile for representing high-resolution spectroscopic transitions (IUPAC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	225
43	CO ₂ isolated line shapes by classical molecular dynamics simulations: Influence of the intermolecular potential and comparison with new measurements. Journal of Chemical Physics, 2014, 140, 084308.	1.2	17
44	Spectral shapes of Ar-broadened HCl lines in the fundamental band by classical molecular dynamics simulations and comparison with experiments. Journal of Chemical Physics, 2014, 141, 064313.	1.2	17
45	Velocity-changing collisions in pure H ₂ and H ₂ -Ar mixture. Journal of Chemical Physics, 2014, 141, 074301.	1.2	30
46	Temperature dependences of air-broadening, air-narrowing and line-mixing coefficients of the methane \hat{v}_3 R(6) manifold lines Application to in-situ measurements of atmospheric methane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 206-216.	1.1	21
47	An isolated line-shape model to go beyond the Voigt profile in spectroscopic databases and radiative transfer codes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 89-100.	1.1	256
48	Velocity effects on the shape of pure H ₂ O isolated lines: Complementary tests of the partially correlated speed-dependent Keilson-Storer model. Journal of Chemical Physics, 2013, 138, 034302.	1.2	61
49	of the spectral shapes of CO	1.1	10
50	Efficient computation of some speed-dependent isolated line profiles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 199-203.	1.1	161
51	Molecular dynamics simulations for CO ₂ spectra. IV. Collisional line-mixing in infrared and Raman bands. Journal of Chemical Physics, 2013, 138, 244310.	1.2	11
52	Line mixing in the QQ sub branches of the \hat{v}_2 band of methyl chloride. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2182-2188.	1.1	13
53	A pure H ₂ O isolated line-shape model based on classical molecular dynamics simulations of velocity changes and semi-classical calculations of speed-dependent collisional parameters. Journal of Chemical Physics, 2012, 136, 154310.	1.2	32
54	Influence of velocity effects on the shape of N ₂ (and air) broadened H ₂ O lines revisited with classical molecular dynamics simulations. Journal of Chemical Physics, 2012, 137, 064302.	1.2	23

#	ARTICLE	IF	CITATIONS
55	New section of the HITRAN database: Collision-induced absorption (CIA). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1276-1285.	1.1	268
56	Intensities and shapes of H ₂ O lines in the near-infrared by tunable diode laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 870-877.	1.1	23
57	Toward accurate CO ₂ and CH ₄ observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	355
58	Non-Voigt line-shape effects on retrievals of atmospheric ozone: Line-mixing effects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2287-2295.	1.1	4
59	Measurements and modelling of high pressure pure CO ₂ spectra from 750 to 8500 cm ⁻¹ . Central and wing regions of the allowed vibrational bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 925-936.	1.1	51
60	Collision-induced velocity changes from molecular dynamic simulations in H ₂ -Ar: A test of the Keilson-Storer model and of line-broadening/shifting calculations for the Q(1) Raman line. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1035-1042.	1.1	21
61	The 2 _{1/2} band of CH ₄ revisited with line mixing: Consequences for spectroscopy and atmospheric retrievals at 1.67 μ m. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1344-1356.	1.1	46
62	Updated database plus software for line-mixing in CO ₂ infrared spectra and their test using laboratory spectra in the 1.5-2.3 μ m region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2321-2331.	1.1	89
63	Non-Voigt line-shape effects on retrievals of atmospheric ozone: Collisionally isolated lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2012-2020.	1.1	12
64	Molecular dynamics simulations for CO ₂ absorption spectra. I. Line broadening and the far wing of the 1 _{1/2} infrared band. Journal of Chemical Physics, 2010, 133, 144313.	1.2	22
65	An isolated line-shape model based on the Keilson and Storer function for velocity changes. I. Theoretical approaches. Journal of Chemical Physics, 2009, 130, 094301.	1.2	26
66	Femtosecond time resolved coherent anti-Stokes Raman spectroscopy of H ₂ -N ₂ mixtures in the Dicke regime: Experiments and modeling of velocity effects. Journal of Chemical Physics, 2009, 131, 174310.	1.2	11
67	Line mixing calculation in the 1 _{1/2} Q-branches of N ₂ -broadened CH ₃ Br at low temperatures. Journal of Molecular Spectroscopy, 2009, 256, 35-40.	0.4	15
68	Some improvements of the HNO ₃ spectroscopic parameters in the spectral region from 600 to 950 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 675-686.	1.1	17
69	Line-mixing and collision induced absorption for O ₂ -CO ₂ mixtures in the oxygen A-band region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 2212-2216.	1.1	11
70	An isolated line-shape model based on the Keilson-Storer function for velocity changes. II. Molecular dynamics simulations and the Q(1) lines for pure H ₂ . Journal of Chemical Physics, 2009, 131, 154303.	1.2	50
71	Influence of line mixing on the retrievals of atmospheric CO ₂ from spectra in the 1.6 and 2.1 μ m regions. Atmospheric Chemistry and Physics, 2009, 9, 7303-7312.	1.9	54
72	Line mixing in the 1 _{1/2} Q branches of self- and nitrogen-broadened methyl bromide. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 119-131.	1.1	25

#	ARTICLE	IF	CITATIONS
73	An improved O_2 A band absorption model and its consequences for retrievals of photon paths and surface pressures. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	67
74	Collisional parameters of H ₂ O lines: Velocity effects on the line-shape. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 108, 126-145.	1.1	63
75	Line mixing and collision-induced absorption by oxygen in the A band: Laboratory measurements, model, and tools for atmospheric spectra computations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	59
76	Model, software and database for line-mixing effects in the ν_3 and ν_4 bands of CH ₄ and tests using laboratory and planetary measurements: N ₂ (and air) broadenings and the earth atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 101, 284-305.	1.1	60
77	Femtosecond time resolved coherent anti-Stokes Raman spectroscopy: Experiment and modelization of speed memory effects on H ₂ -N ₂ mixtures in the collision regime. <i>Journal of Chemical Physics</i> , 2005, 122, 194317.	1.2	19