

Laura Gomez

List of Publications by Year in descending order

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42
papers

762
citations

471371

17
h-index

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25
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51
all docs

51
docs citations

51
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation and Dust Sensor for Mars Environmental Dynamic Analyzer Onboard M2020 Rover. <i>Sensors</i> , 2022, 22, 2907.	2.1	18
2	New observations of NO ₂ in the upper troposphere from TROPOMI. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2389-2408.	1.2	18
3	Polar Stratospheric Clouds Detection at Belgrano II Antarctic Station with Visible Ground-Based Spectroscopic Measurements. <i>Remote Sensing</i> , 2021, 13, 1412.	1.8	6
4	Patterns and trends of ozone and carbon monoxide at Ushuaia (Argentina) observatory. <i>Atmospheric Research</i> , 2021, 255, 105551.	1.8	0
5	Intercomparison of MAX-DOAS vertical profile retrieval algorithms: studies on field data from the CINDI-2 campaign. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1-35.	1.2	32
6	Cirrus-induced shortwave radiative effects depending on their optical and physical properties: Case studies using simulations and measurements. <i>Atmospheric Research</i> , 2020, 246, 105095.	1.8	2
7	Intercomparison of NO ₂ , O ₄ , O ₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-visible spectrometers during CINDI-2. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2169-2208.	1.2	52
8	Inter-comparison of MAX-DOAS measurements of tropospheric HONO slant column densities and vertical profiles during the CINDI-2 campaign. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5087-5116.	1.2	18
9	Atmospheric formaldehyde at El Teide and Pic du Midi remote high-altitude sites. <i>Atmospheric Environment</i> , 2020, 234, 117618.	1.9	1
10	Is a scaling factor required to obtain closure between measured and modelled atmospheric O ₄ absorptions? An assessment of uncertainties of measurements and radiative transfer simulations for 2 selected days during the MAD-CAT campaign. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2745-2817.	1.2	22
11	Cirrus clouds properties derived from polarized micro pulse lidar (p-mpl) observations at the atmospheric observatory "el arenosillo" (sw iberian peninsula): a case study for radiative implications. <i>EPJ Web of Conferences</i> , 2018, 176, 05042.	0.1	0
12	Reactive bromine in the low troposphere of Antarctica: estimations at two research sites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8549-8570.	1.9	12
13	Measurement of dust optical depth using the solar irradiance sensor (SIS) onboard the ExoMars 2016 EDM. <i>Planetary and Space Science</i> , 2017, 138, 33-43.	0.9	15
14	DREAMS-SIS: The Solar Irradiance Sensor on-board the ExoMars 2016 lander. <i>Advances in Space Research</i> , 2017, 60, 103-120.	1.2	14
15	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 955-978.	1.2	20
16	Vertical mass impact and features of Saharan dust intrusions derived from ground-based remote sensing in synergy with airborne in-situ measurements. <i>Atmospheric Environment</i> , 2016, 142, 420-429.	1.9	12
17	NO ₂ seasonal evolution in the north subtropical free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10567-10579.	1.9	9
18	Long-path averaged mixing ratios of O ₃ and NO ₂ in the free troposphere from mountain MAX-DOAS. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3373-3386.	1.2	17

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19	Multi-platform in-situ and remote sensing techniques to derive Saharan dust properties during AMISOC-TNF 2013. , 2014, , .		0
20	Temperature dependences of air-broadening, air-narrowing and line-mixing coefficients of the methane $\hat{1}/23$ 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
21	Iodine monoxide in the north subtropical free troposphere. Atmospheric Chemistry and Physics, 2012, 12, 4909-4921.	1.9	44
22	Comparison of quantum, semi-classical and classical methods in the calculation of nitrogen self-broadened linewidths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1887-1897.	1.1	27
23	Collisional line widths of autoperturbed N ₂ : Measurements and quantum calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2542-2551.	1.1	21
24	Spectroscopy of CH ₄ with a difference-frequency generation laser at 3.3 micron for atmospheric applications. Applied Physics B: Lasers and Optics, 2011, 104, 989-1000.	1.1	19
25	Theoretical calculation of CH ₃ Br/N ₂ -broadening coefficients at various temperatures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 769-778.	1.1	11
26	Comparison of classical, semiclassical and quantum methods in hydrogen broadening of acetylene lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1429-1437.	1.1	17
27	Comparison of quantum, semiclassical and classical methods in hydrogen broadening of nitrogen lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1942-1949.	1.1	17
28	Measurement of absolute line intensities in the $\hat{1}/25$ band of 12C ₂ H ₂ using SOLEIL synchrotron far infrared AILES beamline. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1223-1233.	1.1	14
29	Theoretical calculations of self-broadening coefficients in the $\hat{1}/26$ band of CH ₃ Br. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1252-1261.	1.1	19
30	New line intensity measurements for 12C ₂ H ₂ around 7.7 $\hat{1}/4$ m and HITRAN format line list for applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2256-2264.	1.1	15
31	Line mixing calculation in the $\hat{1}/26$ Q-branches of N ₂ -broadened CH ₃ Br at low temperatures. Journal of Molecular Spectroscopy, 2009, 256, 35-40.	0.4	15
32	New Analysis of the $\hat{1}/23$ fundamental band of HDCO: Positions and intensities. Journal of Molecular Spectroscopy, 2009, 256, 28-34.	0.4	3
33	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
34	Validation of HNO ₃ spectroscopic parameters using atmospheric absorption and emission measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 109-117.	1.1	6
35	Theoretical calculations of N ₂ -broadened half-widths of $\hat{1}/25$ transitions of HNO ₃ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 687-699.	1.1	9
36	Line intensities of 12C ₂ H ₂ in the 7.7 $\hat{1}/4$ m spectral region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 2102-2114.	1.1	17

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37	N_2 isotropic Raman Q-branch linewidths: an Energy-Corrected Sudden scaling law. Journal of Raman Spectroscopy, 2008, 39, 707-710.	1.2	10
38	A bond-bond description of the intermolecular interaction energy: the case of weakly bound N_2-H_2 and N_2-N_2 complexes. Physical Chemistry Chemical Physics, 2008, 10, 4281.	1.3	78
39	Collisional line widths of autoperturbed N_2 : measurements and quantum calculations. , 2008, , .		0
40	Q-branch linewidths of N_2 perturbed by H_2 : Experiments and quantum calculations from an ab initio potential. Journal of Chemical Physics, 2007, 126, 204302.	1.2	27
41	Global fits of new intermolecular ground state potential energy surfaces for N_2-H_2 and N_2-N_2 van der Waals dimers. Chemical Physics Letters, 2007, 445, 99-107.	1.2	62
42	Theoretical and experimental analysis of N_2-H_2 stimulated Raman spectra. Molecular Physics, 2006, 104, 1869-1878.	0.8	8