

Shanshan Yu

List of Publications by Year in descending order

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72
papers

4,835
citations

218381

26
h-index

102304

66
g-index

73
all docs

73
docs citations

73
times ranked

4845
citing authors

#	ARTICLE	IF	CITATIONS
1	Instrumentation for THz Spectroscopy in the Laboratory and in Space. IEEE Journal of Microwaves, 2021, 1, 43-54.	4.9	7
2	OCO-3 early mission operations and initial (vEarly) XCO ₂ and SIF retrievals. Remote Sensing of Environment, 2020, 251, 112032.	4.6	89
3	Stability Assessment of OCO-2 Radiometric Calibration Using Aqua MODIS as a Reference. Remote Sensing, 2020, 12, 1269.	1.8	4
4	Empirical rovibrational energy levels of ammonia up to 7500 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107027.	1.1	20
5	OCO-2 Calibration Refinement Across Versions and Plans for OCO-3. , 2020, , .		1
6	Rotational and Rotational-Vibrational Raman Spectroscopy of Air to Characterize Astronomical Spectrographs. Physical Review Letters, 2019, 123, 061101.	2.9	8
7	FTS measurements of O ₂ collision-induced absorption in the 565–700 nm region using a high pressure gas absorption cell. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 232-243.	1.1	7
8	Direct retrieval of isoprene from satellite-based infrared measurements. Nature Communications, 2019, 10, 3811.	5.8	42
9	Vicarious Calibration of Orbiting Carbon Observatory-2. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5135-5145.	2.7	9
10	Extended measurements and an experimental accuracy effective Hamiltonian model for the 3 ¹ / ₂ and 1 ¹ / ₂ +1 ¹ / ₂ states of ammonia. Journal of Molecular Spectroscopy, 2018, 353, 60-66.	0.4	6
11	THz spectroscopy of CH ₂ and CD ₂ . Journal of Molecular Spectroscopy, 2017, 331, 6-8.	0.4	5
12	Multispectrum analysis of the oxygen A-band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 186, 118-138.	1.1	67
13	THz spectroscopy of D ₂ H ⁺ . Journal of Molecular Spectroscopy, 2017, 331, 6-8.	0.4	3
14	High accuracy absorption coefficients for the Orbiting Carbon Observatory-2 (OCO-2) mission: Validation of updated carbon dioxide cross-sections using atmospheric spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 213-223.	1.1	32
15	Validation of ozone intensities at 10 μm with THz spectrometry. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 282-292.	1.1	16
16	The HITRAN2016 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 3-69.	1.1	2,840
17	High-resolution tropospheric carbon monoxide profiles retrieved from CrIS and TROPOMI. Atmospheric Measurement Techniques, 2016, 9, 2567-2579.	1.2	46
18	Potentiology and spectroscopy in honor of Robert Le Roy: A preface to the special issue. Journal of Molecular Spectroscopy, 2016, 330, 1-3.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Line parameters including temperature dependences of self- and air-broadened line shapes of $^{12}\text{C}^{16}\text{O}_2$: $1.6\text{--}1\frac{1}{4}\mu\text{m}$ region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 117-144.	1.1	52
20	Line parameters including temperature dependences of air- and self-broadened line shapes of $^{12}\text{C}^{16}\text{O}_2$: $2.06\text{--}1\frac{1}{4}\mu\text{m}$ region. <i>Journal of Molecular Spectroscopy</i> , 2016, 326, 21-47.	0.4	42
21	Terahertz spectroscopy of ground state HD18O. <i>Journal of Molecular Spectroscopy</i> , 2016, 328, 27-31.	0.4	4
22	The 2015 edition of the GEISA spectroscopic database. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 31-72.	0.4	311
23	Far-infrared $^{14}\text{NH}_3$ line positions and intensities measured with a FT-IR and AILES beamline, Synchrotron SOLEIL. <i>Journal of Molecular Spectroscopy</i> , 2016, 327, 1-20.	0.4	16
24	Modeling the spectrum of the $2\frac{1}{2}^2$ and $1\frac{1}{2}^4$ states of ammonia to experimental accuracy. <i>Journal of Chemical Physics</i> , 2016, 145, 124301.	1.2	14
25	Spectral line parameters including line shapes in the $2\frac{1}{2}^3$ Q branch of $^{12}\text{CH}_4$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 177, 152-169.	1.1	25
26	Self- and air-broadened line shapes in the $2\frac{1}{2}^3$ P and R branches of $^{12}\text{CH}_4$. <i>Journal of Molecular Spectroscopy</i> , 2015, 315, 114-136.	0.4	37
27	Rotational spectroscopy of vibrationally excited N_2H^+ and N_2D^+ up to 2.7THz. <i>Journal of Molecular Spectroscopy</i> , 2015, 314, 19-25.	0.4	7
28	Analysis of the rotational spectrum of the ground and first torsional excited states of monodeuterated ethane, $\text{CH}_3\text{CH}_2\text{D}$. <i>Journal of Molecular Spectroscopy</i> , 2015, 307, 27-32.	0.4	5
29	High resolution spectral analysis of oxygen. IV. Energy levels, partition sums, band constants, RKR potentials, Franck-Condon factors involving the $X^3\Sigma^+_{g^-}$, $a^1\Pi^+$ and $b^1\Sigma^+_g$ states. <i>Journal of Chemical Physics</i> , 2014, 141, 174302.	1.2	30
30	WIDESPREAD ROTATIONALLY HOT HYDRONIUM ION IN THE GALACTIC INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2014, 785, 135.	1.6	22
31	TERAHERTZ MEASUREMENTS OF THE HOT HYDRONIUM ION WITH AN EXTENDED NEGATIVE GLOW DISCHARGE. <i>Astrophysical Journal</i> , 2014, 786, 133.	1.6	4
32	<i>HERSCHEL</i> OBSERVATIONS OF EXTRAORDINARY SOURCES: ANALYSIS OF THE HIFI 1.2 THz WIDE SPECTRAL SURVEY TOWARD ORION KL. I. METHODS. <i>Astrophysical Journal</i> , 2014, 787, 112.	1.6	106
33	<i>HERSCHEL</i> OBSERVATIONS OF EXTRAORDINARY SOURCES: ANALYSIS OF THE FULL <i>HERSCHEL</i> /HIFI MOLECULAR LINE SURVEY OF SAGITTARIUS B2(N). <i>Astrophysical Journal</i> , 2014, 789, 8.	1.6	82
34	Submillimeter measurements of the Criegee intermediate CH_2OO , in the gas phase. <i>Journal of Molecular Spectroscopy</i> , 2014, 297, 16-20.	0.4	33
35	Characterization and Use of a $1.3\text{--}1.5$ THz Multiplier Chain for Molecular Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 314-321.	2.0	15
36	Terahertz spectroscopy of water in its second triad. <i>Journal of Molecular Spectroscopy</i> , 2013, 288, 7-10.	0.4	9

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37	High resolution spectral analysis of oxygen. III. Laboratory investigation of the airglow bands. Journal of Chemical Physics, 2013, 139, 144301.	1.2	14
38	High resolution spectral analysis of oxygen. I. Isotopically invariant Dunham fit for the $\Sigma^3 \{m \Sigma^+ \}_g^- - X^3 \Sigma^+g^-$, $a^1 \Sigma^+g^-$, $b^1 \Sigma^+g^-$ states. Journal of Chemical Physics, 2012, 137, 024304.	1.2	41
39	High resolution spectral analysis of oxygen. II. Rotational spectra of $a^1 \Sigma^+g^-$ O ₂ isotopologues. Journal of Chemical Physics, 2012, 137, 024305.	1.2	15
40	The ground state torsion rotation spectrum of CH ₂ DOH. Journal of Molecular Spectroscopy, 2012, 280, 119-133.	0.4	38
41	Broadband rotational spectroscopy of acrylonitrile: Vibrational energies from perturbations. Journal of Molecular Spectroscopy, 2012, 280, 134-144.	0.4	91
42	Measurement and analysis of new terahertz and far-infrared spectra of high temperature water. Journal of Molecular Spectroscopy, 2012, 279, 16-25.	0.4	32
43	Microwave spectroscopy of methanol between 248 and 277 THz. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2549.	0.9	19
44	Terahertz spectroscopy for space applications: 2.5-2.7THz spectra of HD, H ₂ O and NH ₃ . Journal of Molecular Structure, 2011, 1006, 2-12.	1.8	43
45	Acetylene spectra near 2.6THz. Journal of Molecular Spectroscopy, 2011, 269, 254-256.	0.4	6
46	O ₂ A-band line parameters to support atmospheric remote sensing. Part II: The rare isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2527-2541.	1.1	19
47	Demonstration of a room temperature 2.48-2.75 THz coherent spectroscopy source. Review of Scientific Instruments, 2011, 82, 093105.	0.6	75
48	Hyperfine structure of the transitions of 16O ¹⁷ O, 17O ¹⁸ O and 17O ₂ by CRDS at 80K. Chemical Physics Letters, 2011, 502, 37-41.	1.2	8
49	The $3 \Sigma^+g^-$ electronic states of oxygen, O ₂ , in its $3 \Sigma^+g^-$ and $1 \Sigma^+g^-$ electronic states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1257-1265.	1.1	17
50	Terahertz spectroscopy of oxygen, O ₂ , in its $3 \Sigma^+g^-$ and $1 \Sigma^+g^-$ electronic states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1167-1173.	1.1	27
51	Submillimeter-wave and far-infrared spectroscopy of high-J transitions of the ground and $\hat{v}_2=1$ states of ammonia. Journal of Chemical Physics, 2010, 133, 174317.	1.2	49
52	TERAHERTZ SPECTROSCOPY OF THE BENDING VIBRATIONS OF ACETYLENE ¹² C ₂ H ₂ . Astrophysical Journal, 2009, 705, 786-790.	1.6	20
53	TERAHERTZ SPECTROSCOPY AND GLOBAL ANALYSIS OF THE BENDING VIBRATIONS OF ACETYLENE ¹² C ₂ D ₂ . Astrophysical Journal, 2009, 698, 2114-2120.	1.6	4
54	Fourier transform infrared emission spectroscopy of new systems of NiS. Journal of Molecular Spectroscopy, 2009, 258, 20-25.	0.4	10

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55	The rotational spectrum of acrylonitrile up to 1.67THz. Journal of Molecular Spectroscopy, 2009, 258, 26-34.	0.4	36
56	High resolution spectroscopy of and. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 2077-2081.	1.1	10
57	NEW GROUND-STATE MEASUREMENTS OF ETHYL CYANIDE. Astrophysical Journal, Supplement Series, 2009, 184, 133-137.	3.0	29
58	TERAHERTZ SPECTROSCOPY AND GLOBAL ANALYSIS OF H ₃ O ⁺ . Astrophysical Journal, Supplement Series, 2009, 180, 119-124.	3.0	24
59	Submillimeter-wave spectroscopy of HCO ⁺ in the excited vibrational states. Journal of Molecular Spectroscopy, 2008, 248, 26-40.	0.4	11
60	Submillimeter-wave spectroscopy of DCO ⁺ in the excited vibrational states: Does the Stark effect cause anomalies in the (0220) state?. Journal of Chemical Physics, 2007, 127, 074301.	1.2	13
61	Fourier transform emission spectroscopy of the C3 ⁺ , D3 ⁺ , G3 ⁺ and G3 ⁺ systems of CoCl. Journal of Molecular Spectroscopy, 2007, 243, 69-77.	0.4	9
62	Further spectroscopic investigations of the high energy electronic states of SrOH: The and the transitions. Journal of Molecular Spectroscopy, 2007, 245, 26-33.	0.4	6
63	Laser spectroscopy of the and transitions of SrOD. Journal of Molecular Spectroscopy, 2006, 240, 26-31.	0.4	11
64	Infrared emission spectroscopy of the A4 ⁺ and B4 ⁺ transitions of CoS. Journal of Molecular Spectroscopy, 2006, 236, 255-259.	0.4	11
65	Optical-optical double resonance spectroscopy of the transition of CaOH. Journal of Molecular Spectroscopy, 2006, 240, 238-243.	0.4	14
66	Infrared and near infrared emission spectra of TeH and TeD. Journal of Molecular Spectroscopy, 2005, 230, 105-116.	0.4	7
67	Gaseous HgH ₂ , CdH ₂ , and ZnH ₂ . Chemistry - A European Journal, 2005, 11, 4709-4712.	1.7	47
68	Infrared and near infrared emission spectra of SbH and SbD. Journal of Molecular Spectroscopy, 2005, 229, 257-265.	0.4	9
69	The vibration-rotation emission spectra of gaseous CdH ₂ and CdD ₂ . Journal of Chemical Physics, 2005, 122, 194301.	1.2	10
70	The vibration-rotation emission spectrum of hot BeF ₂ . Journal of Chemical Physics, 2005, 123, 134303.	1.2	10
71	Infrared Emission Spectra and Equilibrium Structures of Gaseous HgH ₂ and HgD ₂ . Journal of Physical Chemistry A, 2005, 109, 10280-10286.	1.1	27
72	The Vibration-Rotation Emission Spectrum of Gaseous HZnCl. Journal of Physical Chemistry A, 2005, 109, 4092-4094.	1.1	7