Cyril Richard

List of Publications by Year
in descending order

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29 papers	4,241 citations	686830 13 h-index	454577 30 g-index
31 all docs	31 docs citations	31 times ranked	4007 citing authors

#	Article	IF	Citations
1	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	1.1	2,810
2	The HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949.	1.1	770
3	New section of the HITRAN database: Collision-induced absorption (CIA). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1276-1285.	1.1	268
4	The 2020 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2021, 380, 111510.	0.4	74
5	A Decade with VAMDC: Results and Ambitions. Atoms, 2020, 8, 76.	0.7	53
6	Mono-deuterated dimethyl ether: laboratory spectrum up to 1 THz. Astronomy and Astrophysics, 2013, 552, A117.	2.1	25
7	High-resolution spectroscopy and global analysis of CF 4 rovibrational bands to model its atmospheric absorption. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 75-93.	1.1	25
8	Quantifying methane vibrational and rotational temperature with Raman scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106562.	1.1	23
9	Line positions and intensities for the Î½3 band of 5 isotopologues of germane for planetary applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 174-183.	1.1	20
10	Room-Temperature Metalâ˜Hydride Discharge Source, with Observations on NiH and FeH. Journal of Physical Chemistry A, 2009, 113, 13159-13166.	1.1	19
11	New investigation of the Î½3 Câ€“H stretching region of 12CH4 through the analysis of high temperature infrared emission spectra. Journal of Chemical Physics, 2018, 148, 134306.	1.2	17
12	Calculated spectroscopic databases for the VAMDC portal: New molecules and improvements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107096.	1.1	16
13	The VAMDC Portal as a Major Enabler of Atomic and Molecular Data Citation. Galaxies, 2018, 6, 105.	1.1	13
14	Torsional-rotational spectrum of doubly deuterated dimethyl ether (CH₃OCHD₂). Astronomy and Astrophysics, 2021, 651, A120.	2.1	12
15	A methane line list with sub-MHz accuracy in the 1250 to 1380 cmâ˜1 range from optical frequency comb Fourier transform spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108252.	1.1	11
16	Line positions and intensities for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg"><mml:msub><mml:mi>Î½</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mi>Î½</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> bands of 5 isotopologues of germane near 11.5ÂÂµm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107474.	1.1	10
17	Analysis of the terahertz rotational spectrum of the three mono-¹³C ethyl cyanides (¹³Câ€“CH₃CH₂CN). Astronomy and Astrophysics, 2012, 543, A135.	2.1	10
18	LABORATORY MEASUREMENTS OF NiH BY FOURIER TRANSFORM DISPERSED FLUORESCENCE. Astrophysical Journal, 2009, 696, 172-175.	1.6	9

#	Article	IF	Citations
19	Resolved fluorescence spectra of NiH. Electronic structure, electronic energy transfer, and the Zeeman effect in low-lying states. Molecular Physics, 2012, 110, 2019-2033.	0.8	8
20	Analysis and modeling of combination bands of sulfur hexafluoride 32SF6 based on global fits. Update of the SHeCaSDa database. Journal of Molecular Spectroscopy, 2020, 368, 111251.	0.4	8
21	Zeeman spectroscopy of NiH: LandÃ© factors of three Î©=3/2 excited electronic states. Journal of Molecular Spectroscopy, 2013, 292, 28-34.	0.4	7
22	Determination of LandÃ© factors in the F 4 Î” 5/2,7/2 state of 56 FeH by laser excitation spectroscopy. Journal of Molecular Spectroscopy, 2014, 303, 46-53.	0.4	6
23	High-resolution spectroscopy and analysis of the Î½3, Î½4 and 2Î½4 bands of SiF4 in natural isotopic abundance. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107114.	1.1	6
24	Pure rotation spectrum of CF4 in the v3= 1 state using THz synchrotron radiation. Journal of Molecular Spectroscopy, 2018, 348, 43-46.	0.4	5
25	Rotational spectrum of 3-aminopropionitrile and searches for it in Sagittarius B2(N). Journal of Molecular Spectroscopy, 2018, 345, 51-59.	0.4	4
26	Analytical expression of tensorial rotational operators for semi-classical interpretation of molecular spectra. Relations between molecular Hamiltonian parameters in different formalisms. Journal of Molecular Spectroscopy, 2022, 385, 111602.	0.4	4
27	Isotopic relations for tetrahedral and octahedral molecules. Journal of Molecular Structure, 2020, 1206, 127729.	1.8	3
28	High-Resolution spectroscopy and analysis of the fundamental modes of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e7298" altimg="si522.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>28</mml:mn></mml:mrow></mml:msup></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e7306" altimg="si514.svg"><mml:msub><mml:mrow><mml:mi	0.4	2
29	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2487" altimg="si54.svg"><mml:msub><mml:mrow><mml:mi>ν</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2497" altimg="si55.svg"><mml:msub><mml:mrow><mml:mi>ν</mml:mi></mml:mrow><mml:mrow><mml:mn>19</mml:mn></mml:mrow> Journal of Molecular Spectroscopy, 2022, 386, 111614.	0.4	1