

# 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 HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949. High-resolution spectroscopy and analysis of the fundamental modes of $\text{Si}^{28}$	1.1	770
2	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. High-resolution far-infrared synchrotron FTIR spectroscopy and analysis of the $\text{Si}^{28}$	0.4	2
3	A methane line list with sub-MHz accuracy in the 1250 to 1380 $\text{cm}^{-1}$ range from optical frequency comb Fourier transform spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 288, 108252.	0.4	4
4	Line positions and intensities for the $\text{Si}^{28}$ bands of 5 isotopologues of germane near 11.5 $\mu\text{m}$ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107474.	1.1	11
5	The 2020 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2021, 380, 111510.	1.1	10
6	Torsional-rotational spectrum of doubly deuterated dimethyl ether ( $\text{CH}_3\text{OCH}_2\text{D}$ ). Astronomy and Astrophysics, 2021, 651, A120.	0.4	74
7	A Decade with VAMDC: Results and Ambitions. Atoms, 2020, 8, 76.	2.1	12
8	High-resolution spectroscopy and analysis of the $\hat{1}/2_3$ , $\hat{1}/2_4$ and $2\hat{1}/2_4$ bands of $\text{SiF}_4$ in natural isotopic abundance. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107114.	0.7	53
9	Analysis and modeling of combination bands of sulfur hexafluoride $^{32}\text{SF}_6$ based on global fits. Update of the SHeCaSDa database. Journal of Molecular Spectroscopy, 2020, 368, 111251.	1.1	6
10	Isotopic relations for tetrahedral and octahedral molecules. Journal of Molecular Structure, 2020, 1206, 127729.	0.4	8
11	Calculated spectroscopic databases for the VAMDC portal: New molecules and improvements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 251, 107096.	1.8	3
12	Quantifying methane vibrational and rotational temperature with Raman scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106562.	1.1	16
13	New investigation of the $\text{C-H}$ stretching region of $^{12}\text{CH}_4$ through the analysis of high temperature infrared emission spectra. Journal of Chemical Physics, 2018, 148, 134306.	1.1	23
14	Rotational spectrum of 3-aminopropionitrile and searches for it in Sagittarius B2(N). Journal of Molecular Spectroscopy, 2018, 345, 51-59.	1.2	17
15	Pure rotation spectrum of $\text{CF}_4$ in the $\nu_3 = 1$ state using THz synchrotron radiation. Journal of Molecular Spectroscopy, 2018, 348, 43-46.	0.4	4
16	The VAMDC Portal as a Major Enabler of Atomic and Molecular Data Citation. Galaxies, 2018, 6, 105.	0.4	5
17	The VAMDC Portal as a Major Enabler of Atomic and Molecular Data Citation. Galaxies, 2018, 6, 105.	1.1	13

#	ARTICLE	IF	CITATIONS
19	Line positions and intensities for the $\hat{1}/23$ band of 5 isotopologues of germane for planetary applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 174-183.	1.1	20
20	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
21	Determination of Landé factors in the F 4 $\hat{1}^{\circ}$ 5/2,7/2 state of 56 FeH by laser excitation spectroscopy. Journal of Molecular Spectroscopy, 2014, 303, 46-53.	0.4	6
22	The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.	1.1	2,810
23	Zeeman spectroscopy of NiH: Landé factors of three $\hat{1}^{\circ}=3/2$ excited electronic states. Journal of Molecular Spectroscopy, 2013, 292, 28-34.	0.4	7
24	Mono-deuterated dimethyl ether: laboratory spectrum up to 1 THz. Astronomy and Astrophysics, 2013, 552, A117.	2.1	25
25	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
26	New section of the HITRAN database: Collision-induced absorption (CIA). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1276-1285.	1.1	268
27	Analysis of the terahertz rotational spectrum of the three mono- <sup>13</sup> C ethyl cyanides ( <sup>13</sup> C <sup>13</sup> CH <sub>3</sub> CH <sub>2</sub> CN). Astronomy and Astrophysics, 2012, 543, A135.	2.1	10
28	LABORATORY MEASUREMENTS OF NiH BY FOURIER TRANSFORM DISPERSED FLUORESCENCE. Astrophysical Journal, 2009, 696, 172-175.	1.6	9
29	Room-Temperature Metal-Hydride Discharge Source, with Observations on NiH and FeH. Journal of Physical Chemistry A, 2009, 113, 13159-13166.	1.1	19