Elisabetta Cane

List of Publications by Year
in descending order

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39 papers	577 citations	687363 13 h-index	642732 23 g-index
39 all docs	39 docs citations	39 times ranked	525 citing authors

#	Article	IF	Citations
1	Electron-based far-infrared spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">HC</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>: Extended ro-vibrational analysis and new line list up to 3360Âcm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"	2.3	1
2	High-Resolution Infrared Spectroscopy of DC3N in the Stretching Region. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	5
3	High resolution FTIR study of the Î½5, Î½6, and Î½9 fundamental bands of CH2D37Cl. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107719.	2.3	3
4	High-resolution millimeter-wave spectroscopy of CH2DCl: Paving the way for future astronomical observations of chloromethane isotopologues. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106982.	2.3	5
5	Extensive ro-vibrational analysis of deuterated-cyanoacetylene (DC3N) from millimeter-wavelengths to the infrared domain. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107221.	2.3	3
6	Spectroscopy of a low global warming power refrigerant. Infrared and millimeter-wave spectra of trifluoroethene (HFO-1123) in the ground and some vibrational excited states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106980.	2.3	5
7	Spectroscopic characterization of the v2Â=Â3 and v2Â=Âv4Â=Â1 states for 15NH3 from high resolution infrared spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 106987.	2.3	3
8	The rotational spectrum of ¹⁵ND. Isotopic-independent Dunham-type analysis of the imidogen radical. Physical Chemistry Chemical Physics, 2019, 21, 3564-3573.	2.8	21
9	The pure rotational spectrum of 15ND2 observed by millimetre and submillimetre-wave spectroscopy.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 186-189.	2.3	21
10	Perturbation allowed transitions in the infrared spectrum of ¹⁴ND₃: determination of the K-dependent parameters in the ground state. Molecular Physics, 2018, 116, 3538-3546.	1.7	1
11	Frequency-comb-assisted absolute calibration and linestrength of H12C13CH ro-vibrational transitions in the 2Î½3 band. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 31-35.	2.3	2
12	The high resolution spectrum of 15NH3 in the far-infrared: Rotation-inversion transitions in the ground, v2=1, 2 and v4=1 states. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 417-424.	2.3	6
13	Infrared spectroscopy of 14ND3: Analysis of the Î½2/Î½4/2Î½2 and Î½1/Î½3/2Î½4 band systems. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 398-409.	2.3	4
14	Rotational and High-resolution Infrared Spectrum of HC ₃ N: Global Ro-vibrational Analysis and Improved Line Catalog for Astrophysical Observations. Astrophysical Journal, Supplement Series, 2017, 233, 11.	7.7	22
15	FTIR spectra of CH2F2 in the 1000â€“1300 cmâ^'1 region: Rovibrational analysis and modeling of the Coriolis and anharmonic resonances in the Î½3, Î½5, Î½7, Î½9 and 2Î½4 polyad. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 175, 8-16.	2.3	14
16	The experimental equilibrium structure of acetylene. Physical Chemistry Chemical Physics, 2016, 18, 1937-1944.	2.8	22
17	The high-resolution infrared spectrum of fully deuterated diacetylene below 1000 cmâ^'1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 12-21.	2.3	1
18	The infrared spectrum of DCCF in the 320â€“850Âcm^{â^'1}region: bending states up toÏ…₄+Ï…₅= 3. Molecular Physics, 2014, 112, 1071-1080.	1.7	1

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19	Infrared spectroscopy of 15ND3: The Î½2 and Î½4 bending fundamental bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 119, 1-11.	2.3	11
20	The infrared spectrum of 12C2D2: The stretching-bending band system up to 5500 cmâ¯1. Journal of Chemical Physics, 2013, 138, 134312.	3.0	5
21	The Î½1â€‰+â€‰Î½5high resolution infrared band of FClO3. Molecular Physics, 2012, 110, 2055-2062.	1.7	0
22	High-resolution infrared spectroscopy of diacetylene below 1000â€‰cm^{â¯1}. Molecular Physics, 2011, 109, 2181-2190.	1.7	8
23	TheÎ½₂â€‰+â€‰Î½₄and 2Î½₂â€‰+â€‰Î½₅high-resolution infrared bands of FClO₃ Molecular Physics, 2011, 109, 2143-2152.	1.7	1
24	The anharmonic force field of 1,3-cyclopentadienes. Physical Chemistry Chemical Physics, 2009, 11, 2428.	2.8	12
25	Ab Initio Anharmonic Force Field and Rotational Analyses of Infrared Bands of Perchloryl Fluoride. Journal of Physical Chemistry A, 2008, 112, 13729-13736.	2.5	6
26	High-resolution infrared spectroscopy of H¹²C¹³CD and H¹³C¹²CD in the 470â€“5200â€‰cm^{â¯1}spectral region. Molecular Physics, 2007, 105, 2321-2325.	1.7	9
27	Anharmonic Force Fields of Naphthalene-h ₈ and Naphthalene-d ₈. Journal of Physical Chemistry A, 2007, 111, 8218-8222.	2.5	69
28	The infrared spectrum of12C2HD: the bending states up to Ï…4+Ï…5=3. Molecular Physics, 2005, 103, 3263-3270.	1.7	11
29	High resolution FTIR spectra and analysis of the Î½11fundamental and of the Î½2+ Î½11, Î½5+ Î½12and Î½7+ Î½16combination bands of12C6D6. Molecular Physics, 2002, 100, 981-1001.	1.7	10
30	Experimental and theoretical anharmonicity for benzene using density functional theory. Journal of Chemical Physics, 2000, 112, 248-259.	3.0	135
31	Geometry of Benzene from the Infrared Spectrum. Journal of Chemical Education, 1999, 76, 1288.	2.3	6
32	The gas-phase infrared spectra of anthracene-h10 and anthracene-d10. Journal of Chemical Physics, 1997, 106, 9004-9012.	3.0	37
33	The gas-phase infrared spectra of phenanthrene-h10 and phenanthrene-d10. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 1839-1851.	3.9	18
34	Some Anharmonic Constants of C6H6. Journal of Molecular Spectroscopy, 1997, 183, 204-206.	1.2	6
35	The Î½6, Î½7, Î½8 and Î½19 gas phase fundamental frequencies of 12C6H6. Chemical Physics Letters, 1997, 272, 83-85.	2.6	13
36	Gas-phase IR spectrum of 1-azaindolizine: scaled quantum mechanical force field and spectrum assignment. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3741-3746.	1.7	8

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37	Gas-phase IR spectrum of 7-azaindole. Scaled quantum mechanical force field and complete spectrum assignment. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3213-3219.	1.7	23
38	Gas-phase infrared spectrum of indazole. Scaled quantum mechanical force field and complete spectrum assignment. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4005-4011.	1.7	23
39	Microwave spectrum and ab initio calculations of indazole. Journal of Molecular Spectroscopy, 1992, 155, 1-10.	1.2	26