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	Experimental and theoretical anharmonicity for benzene using density functional theory. Journal of Chemical Physics, 2000, 112, 248-259.	3.0	135
2	Anharmonic Force Fields of Naphthalene-h ₈ and Naphthalene-d ₈. Journal of Physical Chemistry A, 2007, 111, 8218-8222.	2.5	69
3	The gas-phase infrared spectra of anthracene-h10 and anthracene-d10. Journal of Chemical Physics, 1997, 106, 9004-9012.	3.0	37
4	Microwave spectrum and ab initio calculations of indazole. Journal of Molecular Spectroscopy, 1992, 155, 1-10.	1.2	26
5	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
6	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
7	The experimental equilibrium structure of acetylene. Physical Chemistry Chemical Physics, 2016, 18, 1937-1944.	2.8	22
8	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
9	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
10	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
11	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
12	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
13	The Î½6, Î½7, Î½8 and Î½19 gas phase fundamental frequencies of 12C6H6. Chemical Physics Letters, 1997, 272, 83-85.	2.6	13
14	The anharmonic force field of 1,3-cyclopentadienes. Physical Chemistry Chemical Physics, 2009, 11, 2428.	2.8	12
15	The infrared spectrum of12C2HD: the bending states up to Ï…4+Ï…5=3. Molecular Physics, 2005, 103, 3263-3270.	1.7	11
16	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
17	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
18	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

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19	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
20	High-resolution infrared spectroscopy of diacetylene below 1000â€‰cm^{â^'1}. Molecular Physics, 2011, 109, 2181-2190.	1.7	8
21	Some Anharmonic Constants of C6H6. Journal of Molecular Spectroscopy, 1997, 183, 204-206.	1.2	6
22	Geometry of Benzene from the Infrared Spectrum. Journal of Chemical Education, 1999, 76, 1288.	2.3	6
23	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
24	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
25	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
26	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
27	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
28	High-Resolution Infrared Spectroscopy of DC3N in the Stretching Region. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	5
29	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
30	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
31	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
32	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
33	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
34	TheÎ½₂â€‰+â€‰Î½₄and 2Î½₂â€‰+â€‰Î½₅high-resolution infrared bands of FClO₃ Molecular Physics, 2011, 109, 2143-2152.	1.7	1
35	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
36	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

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37	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
38	Synchrotron-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.s	2.3	1
39	The Î½1â€‰+â€‰Î½5high resolution infrared band of FClO3. Molecular Physics, 2012, 110, 2055-2062.	1.7	0