Mattia Melosso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39	341	10	17
papers	citations	h-index	g-index
44	740	3.9	3.46
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
39	Synchrotron-based far-infrared spectroscopy of HC3N: Extended ro-vibrational analysis and new line list up to 3360 cma. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 279, 108044	2.1	
38	Gas-phase identification of ()-1,2-ethenediol, a key prebiotic intermediate in the formose reaction <i>Chemical Communications</i> , 2022 ,	5.8	3
37	Precursors of the RNA World in Space: Detection of (Z)-1,2-ethenediol in the Interstellar Medium, a Key Intermediate in Sugar Formation. <i>Astrophysical Journal Letters</i> , 2022 , 929, L11	7.9	6
36	Spectroscopic Characterization of 3-Aminoisoxazole, a Prebiotic Precursor of Ribonucleotides. <i>Molecules</i> , 2022 , 27, 3278	4.8	О
35	An improved study of HCO and He system: Interaction potential, collisional relaxation, and pressure broadening <i>Journal of Chemical Physics</i> , 2021 , 155, 234306	3.9	Ο
34	Improved centrifugal and hyperfine analysis of ND2H and NH2D and its application to the spectral line survey of L1544. <i>Journal of Molecular Spectroscopy</i> , 2021 , 377, 111431	1.3	2
33	High-Resolution Infrared Spectroscopy of DC3N in the Stretching Region. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	2
32	Computational molecular spectroscopy. Nature Reviews Methods Primers, 2021, 1,		18
31	An improved rovibrational linelist of formaldehyde, H212C16O. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 266, 107563	2.1	7
30	High resolution FTIR study of the B, B, and B fundamental bands of CH2D37Cl. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 270, 107719	2.1	0
29	Hunting the relatives of benzonitrile: Rotational spectroscopy of dicyanobenzenes. <i>Astronomy and Astrophysics</i> , 2021 , 652, A163	5.1	1
28	The GUAPOS project. Astronomy and Astrophysics, 2021 , 653, A129	5.1	6
27	Hyperfine-Resolved Near-Infrared Spectra of HO. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7884-7890	2.8	2
26	The HITRAN2020 molecular spectroscopic database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 277, 107949	2.1	96
25	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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 248, 106980	2.1	3
24	Rotational spectroscopy of rare iron monoxide isotopologues: A mass-independent analysis. <i>Molecular Physics</i> , 2020 , 118, e1774087	1.7	1
23	DC3N observations towards high-mass star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 496, 1990-1999	4.3	4

22	Rich Collection of n-Propylamine and Isopropylamine Conformers: Rotational Fingerprints and State-of-the-Art Quantum Chemical Investigation. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1372-1381	2.8	8
21	Submillimeter and Far-infrared Spectroscopy of Monodeuterated Amidogen Radical (NHD): Improved Rest Frequencies for Astrophysical Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 247, 59	8	2
20	The Submillimeter Rotational Spectrum of Ethylene Glycol up to 890 GHz and Application to ALMA Band 10 Spectral Line Data of NGC 6334I. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 240-246	2.8	11
19	Determination of a semi-experimental equilibrium structure of 1-phosphapropyne from millimeter-wave spectroscopy of CH3CP and CD3CP. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127429	3.4	7
18	First detection of NHD and ND2 in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2020 , 641, A153	35.1	7
17	Far-infrared laboratory spectroscopy of aminoacetonitrile and first interstellar detection of its vibrationally excited transitions. <i>Astronomy and Astrophysics</i> , 2020 , 641, A160	5.1	7
16	Deuterium hyperfine splittings in the rotational spectrum of NH2D as revealed by Lamb-dip spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2020 , 370, 111291	1.3	7
15	High-resolution millimeter-wave spectroscopy of CH2DCl: Paving the way for future astronomical observations of chloromethane isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 248, 106982	2.1	2
14	A Journey from Thermally Tunable Synthesis to Spectroscopy of Phenylmethanimine in Gas Phase and Solution. <i>Chemistry - A European Journal</i> , 2020 , 26, 15016-15022	4.8	2
13	Extensive ro-vibrational analysis of deuterated-cyanoacetylene (DC3N) from millimeter-wavelengths to the infrared domain. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 254, 107221	2.1	3
12	The rotational spectrum of ND. Isotopic-independent Dunham-type analysis of the imidogen radical. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3564-3573	3.6	11
11	Astronomical Search of Vinyl Alcohol Assisted by Submillimeter Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1189-1195	3.2	12
10	The pure rotational spectrum of 15ND2 observed by millimetre and submillimetre-wave spectroscopy <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 222-223, 186-189	2.1	14
9	Rotational and Infrared Spectroscopy of Ethanimine: A Route toward Its Astrophysical and Planetary Detection. <i>Astrophysical Journal</i> , 2018 , 855, 123	4.7	24
8	Laboratory measurements and astronomical search for cyanomethanimine. <i>Astronomy and Astrophysics</i> , 2018 , 609,	5.1	24
7	Accurate Laboratory Measurement of the Complete Fine Structure of the $N=1\text{ID}$ Transition of 15NH. <i>Astrophysical Journal</i> , 2018 , 863, 3	4.7	4
6	Rotational and High-resolution Infrared Spectrum of HC 3 N: Global Ro-vibrational Analysis and Improved Line Catalog for Astrophysical Observations. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 11	8	17
5	Terahertz Spectroscopy and Global Analysis of the Rotational Spectrum of Doubly Deuterated Amidogen Radical ND 2. <i>Astrophysical Journal, Supplement Series,</i> 2017 , 233, 15	8	9

4	Millimeter-wave and Submillimeter-wave Spectra of Aminoacetonitrile in the Three Lowest Vibrational Excited States. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 230, 26	8	10
3	Conformational stability of cyclopropanecarboxaldehyde is ruled by vibrational effects. <i>Molecular Physics</i> ,e1955988	1.7	1
2	First detection of C2H5NCO in the ISM and search of other isocyanates towards the G+0.693-0.027 molecular cloud. <i>Astronomy and Astrophysics</i> ,	5.1	4
1	Dipolar spin-spin coupling as auxiliary tool for structure determination of small isolated molecules. <i>Physical Chemistry Chemical Physics</i> ,	3.6	