Assimo Maris

List of Publications by Year
in descending order

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120 papers	2,179 citations	257357 24 h-index	330025 37 g-index
127 all docs	127 docs citations	127 times ranked	1268 citing authors

#	Article	IF	Citations
1	Structure and dynamics of methacrylamide, a computational and free-jet rotational spectroscopic study. Journal of Molecular Structure, 2022, 1248, 131391.	1.8	3
2	The Shapes of Sulfonamides: A Rotational Spectroscopy Study. Molecules, 2022, 27, 2820.	1.7	5
3	Skeletal Torsion Tunneling and Methyl Internal Rotation: The Coupled Large Amplitude Motions in Phenyl Acetate. Molecules, 2022, 27, 2730.	1.7	5
4	UPS, XPS, NEXAFS and Computational Investigation of Acrylamide Monomer. Photochem, 2022, 2, 463-478.	1.3	3
5	Spectroscopic and quantum mechanical study of a scavenger molecule: N,N-diethylhydroxylamine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 281, 121555.	2.0	5
6	Characterizing hydrogen and tetrel bonds in clusters of CO2 with carboxylic acids. Physical Chemistry Chemical Physics, 2021, 23, 16915-16922.	1.3	10
7	Characterizing the lone pairâ‹Ï€â€“hole interaction in complexes of ammonia with perfluorinated arenes. Physical Chemistry Chemical Physics, 2021, 23, 9121-9129.	1.3	11
8	Interplay of Rotational and Pseudorotational Motions in Flexible Cyclic Molecules. Journal of Physical Chemistry A, 2021, 125, 4098-4113.	1.1	4
9	Cellular remains in a ~3.42-billion-year-old subseafloor hydrothermal environment. Science Advances, 2021, 7, .	4.7	34
10	Testing the Scalability of the HS-AUTOFIT Tool in a High-Performance Computing Environment. Electronics (Switzerland), 2021, 10, 2251.	1.8	3
11	How Aromatic Fluorination Exchanges the Interaction Role of Pyridine with Carbonyl Compounds: The Formaldehyde Adduct. Chemistry - A European Journal, 2021, 27, 13870-13878.	1.7	6
12	Ïƒâ€“Hole activation and structural changes upon perfluorination of aryl halides: direct evidence from gas phase rotational spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 18093-18101.	1.3	3
13	Immunological Analytical Techniques for Cosmetics Quality Control and Process Monitoring. Processes, 2021, 9, 1982.	1.3	4
14	Millimeter wave free-jet spectrum of the isotopologues of 1,2-butanediol. Journal of Molecular Structure, 2020, 1205, 127643.	1.8	7
15	Millimeter wave free-jet spectrum of acrolein and several isotopologues. Canadian Journal of Physics, 2020, 98, 555-559.	0.4	1
16	Chlorination and tautomerism: a computational and UPS/XPS study of 2-hydroxypyridine â‡Œ 2-pyridone equilibrium. Physical Chemistry Chemical Physics, 2020, 22, 13440-13455.	1.3	8
17	Terpenoids: shape and non-covalent interactions. The rotational spectrum of cis-verbenol and its 1â€‰:â€‰1 water complex. Physical Chemistry Chemical Physics, 2020, 22, 5729-5734.	1.3	8
18	Structure, Dynamics, and Accurate Laboratory Rotational Frequencies of the Acrylonitrileâ€“Methanol Complex. Journal of Physical Chemistry A, 2020, 124, 3601-3608.	1.1	0

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19	Exploring Caffeineâ€“Phenol Interactions by the Inseparable Duet of Experimental and Theoretical Data. Chemistry - A European Journal, 2019, 25, 14230-14236.	1.7	11
20	Non covalent interactions stabilizing the chiral dimer of CH₂ClF: a rotational study. Physical Chemistry Chemical Physics, 2019, 21, 3695-3700.	1.3	5
21	Laboratory Measurements and Astronomical Search for Thioacetamide. ACS Earth and Space Chemistry, 2019, 3, 1537-1549.	1.2	11
22	Atmospherically relevant acroleinâ€“water complexes: spectroscopic evidence of aldehyde hydration and oxygen atom exchange. Physical Chemistry Chemical Physics, 2019, 21, 23559-23566.	1.3	16
23	Shapes, Dynamics, and Stability of Î²-Ionone and Its Two Mutants Evidenced by High-Resolution Spectroscopy in the Gas Phase. Journal of Physical Chemistry Letters, 2018, 9, 1497-1502.	2.1	17
24	Quantum Effects for a Proton in a Low-Barrier, Double-Well Potential: Core Level Photoemission Spectroscopy of Acetylacetone. Journal of Physical Chemistry Letters, 2018, 9, 521-526.	2.1	13
25	Millimeter-wave spectroscopy and modeling of 1,2-butanediol. Astronomy and Astrophysics, 2018, 619, A140.	2.1	13
26	Rotational Spectrum and Conformational Analysis of N-Methyl-2-Aminoethanol: Insights into the Shape of Adrenergic Neurotransmitters. Frontiers in Chemistry, 2018, 6, 25.	1.8	6
27	The microwave spectroscopy study of 1,2-dimethoxyethane. Journal of Molecular Spectroscopy, 2017, 337, 3-8.	0.4	9
28	Regarding the torsional flexibility of the dihydrolipoic acid's pharmacophore: 1,3-propanedithiol. Physical Chemistry Chemical Physics, 2017, 19, 496-502.	1.3	11
29	Structure and dynamics of cyclic amides: The rotational spectrum of 1,3-dimethyl-2-imidazolidinone. Journal of Molecular Spectroscopy, 2017, 342, 38-44.	0.4	8
30	Effects of Chlorination on the Tautomeric Equilibrium of 2â€Hydroxypyridine: Experiment and Theory. Chemistry - A European Journal, 2017, 23, 3595-3604.	1.7	14
31	Probing the Lone PairÂ·Â·Â·Ï€-Hole Interaction in Perfluorinated Heteroaromatic Rings: The Rotational Spectrum of PentafluoropyridineÂ·Water. Journal of Physical Chemistry Letters, 2016, 7, 1513-1517.	2.1	36
32	Conformational Equilibrium and Internal Dynamics of E-Anethole: A Rotational Study. Journal of Physical Chemistry B, 2016, 120, 6587-6591.	1.2	10
33	Effects of Fluorine Substitution on the Microsolvation of Aromatic Azines: The Microwave Spectrum of 3-Fluoropyridine-Water. Journal of Physical Chemistry A, 2016, 120, 5163-5168.	1.1	12
34	How CO₂ Interacts with Carboxylic Acids: A Rotational Study of Formic Acidâ€“CO₂. ChemPhysChem, 2015, 16, 2961-2967.	1.0	26
35	Accurate spectroscopy of polycyclic aromatic compounds: From the rotational spectrum of fluoren-9-one in the millimeter wave region to its infrared spectrum. Journal of Chemical Physics, 2015, 142, 024317.	1.2	3
36	Rotational Spectrum of Dichloromethaneâ€“Ne: Internal Dynamics and Cl Quadrupolar Hyperfine Effects. Journal of Physical Chemistry A, 2015, 119, 11813-11819.	1.1	5

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37	Acrylic acid (CH₂CHCOOH): the rotational spectrum in the millimetre range up to 397 GHz. Molecular Physics, 2015, 113, 2290-2295.	0.8	5
38	Millimeter Wave Spectrum of the Weakly Bound Complex CH₂â•CHCNÂ·H₂O: Structure, Dynamics, and Implications for Astronomical Search. Journal of Physical Chemistry A, 2015, 119, 11674-11682.	1.1	23
39	Conformational landscape of indan-5-ol: A free-jet millimetre wave study. Journal of Molecular Spectroscopy, 2015, 307, 6-9.	0.4	1
40	Raman and SERS study on ibuprofen metal complexes with biomedical interest. Vibrational Spectroscopy, 2014, 73, 45-55.	1.2	13
41	Structure of saligenin: microwave, UV and IR spectroscopy studies in a supersonic jet combined with quantum chemistry calculations. Physical Chemistry Chemical Physics, 2014, 16, 17163.	1.3	20
42	Laboratory rotational spectrum of acrylic acid and its isotopologues in the 6â€“18.5GHz and 52â€“74.4GHz frequency ranges. Journal of Molecular Spectroscopy, 2014, 295, 37-43.	0.4	10
43	Fluorine Substitution Effects on Flexibility and Tunneling Pathways: The Rotational Spectrum of 2â€Fluorobenzylamine. ChemPhysChem, 2013, 14, 1943-1950.	1.0	9
44	Ketoâ€“Enol Tautomerism and Conformational Landscape of 1,3-Cyclohexanedione from Its Free Jet Millimeter-Wave Absorption Spectrum. Journal of Physical Chemistry A, 2013, 117, 13712-13718.	1.1	27
45	Raman and SERS study on atrazine, prometryn and simetryn triazine herbicides. Journal of Molecular Structure, 2013, 1040, 139-148.	1.8	38
46	Pyridine-CF₄: A Molecule with a Rotating Cap. Journal of Physical Chemistry A, 2013, 117, 11289-11292.	1.1	20
47	Rotational Spectrum and Internal Dynamics of Methylpyruvate. Journal of Physical Chemistry A, 2013, 117, 590-593.	1.1	8
48	Detection and characterization of impurities in commercial products with Fourier transform microwave spectroscopy. Analyst, The, 2013, 138, 1959.	1.7	0
49	Soft X-ray photoemission spectroscopy of selected neurotransmitters in the gas phase. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 244-251.	0.8	3
50	Proton Transfer in Homodimers of Carboxylic Acids: The Rotational Spectrum of the Dimer of Acrylic Acid. Journal of the American Chemical Society, 2012, 134, 19281-19286.	6.6	46
51	Shapes and Internal Dynamics of the 1:1 Adducts of Ammonia with trans and gaucheâ€…Ethanol: A Rotational Study. Chemistry - A European Journal, 2012, 18, 12759-12763.	1.7	10
52	Effects of Fluorine Substitution on the Shape of Neurotransmitters: the Rotational Spectrum of 2â€(2â€Fluorophenyl)Ethanamine. ChemPhysChem, 2012, 13, 3504-3509.	1.0	9
53	Broad band free jet absorption mm-wave spectrum of 3-phenyl-1-propanol. Journal of Molecular Spectroscopy, 2012, 280, 145-149.	0.4	0
54	Rotational Spectrum and Internal Dynamics of Tetrahydrofuranâ€“Krypton. ChemPhysChem, 2012, 13, 221-225.	1.0	3

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55	Conformational Equilibria in Diols: The Rotational Spectrum of Chiral 1,3-Butandiol. Journal of Physical Chemistry A, 2011, 115, 9585-9589.	1.1	11
56	How Trifluoroacetone Interacts with Water. Journal of Physical Chemistry A, 2011, 115, 9493-9497.	1.1	11
57	Raman and SERS study on cimetidineâ€“metal complexes with biomedical interest. Journal of Raman Spectroscopy, 2011, 42, 612-620.	1.2	7
58	Almost free methyl top internal rotation: Rotational spectrum of 2-butynoic acid. Journal of Molecular Spectroscopy, 2011, 267, 186-190.	0.4	21
59	Weak hydrogen bonds in Ïƒ-1,4-difluorobenzene-ammonia: A rotational study. Chemical Physics Letters, 2010, 485, 36-39.	1.2	8
60	Features of the Cï£¿Hâ‹…â‹…â‹…N Weak Hydrogen Bond and Internal Dynamics in Pyridineâ€“CHF₃. Chemistry - A European Journal, 2010, 16, 1761-1764.	1.7	34
61	Rotational spectrum of trifluoroacetone. Journal of Molecular Spectroscopy, 2010, 259, 65-69.	0.4	24
62	The rotational spectrum of tertiary-butyl alcohol. Journal of Molecular Spectroscopy, 2010, 260, 77-83.	0.4	15
63	Tunneling motions in the Arâ€“CHF3 complex. Journal of Molecular Spectroscopy, 2010, 261, 18-27.	0.4	7
64	Tunnelling splittings in the rotational spectrum of 3-fluoro-benzylalcohol. Chemical Physics Letters, 2010, 498, 52-55.	1.2	12
65	Rotational and Core Level Spectroscopies As Complementary Techniques in Tautomeric/Conformational Studies: The Case of 2-Mercaptopyridine. Journal of the American Chemical Society, 2010, 132, 10269-10271.	6.6	27
66	The free jet microwave spectrum of 2-phenylethylamineâ€“water. Physical Chemistry Chemical Physics, 2010, 12, 10210.	1.3	25
67	The double donor/acceptor role of the NH₃group: microwave spectroscopy of the aminoethanolâ€“ammonia molecular complex. Molecular Physics, 2010, 108, 2219-2223.	0.8	12
68	Rotational Spectrum of the Mixed van der Waals Triad Pyridineâ€“Arâ€“Ne. ChemPhysChem, 2009, 10, 2503-2507.	1.0	11
69	Adducts of NH₃ with the Conformers of Glycidol: A Rotational Spectroscopy Study. Angewandte Chemie - International Edition, 2009, 48, 1102-1105.	7.2	22
70	Apparent conflicting indications on the conformation of dimethyletherâ€“argon from the rotational spectra of the d6 and 13C species. Journal of Molecular Spectroscopy, 2009, 257, 29-33.	0.4	3
71	Millimeter wave free-jet spectrum of vinyl acetate. Journal of Molecular Spectroscopy, 2009, 256, 228-231.	0.4	15
72	Shape of Biomolecules by Free Jet Microwave Spectroscopy: 2-Amino-1-phenylethanol and 2-Methylamino-1-phenylethanol. Journal of Physical Chemistry A, 2009, 113, 7769-7773.	1.1	15

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73	Pure Rotational Spectrum and Model Calculations of Anisoleâ˜Ammonia. Journal of Physical Chemistry A, 2009, 113, 14277-14280.	1.1	17
74	Interactions of Aromatic Heterocycles with Water: The Driving Force from Freeâ€Jet Rotational Spectroscopy and Model Electrostatic Calculations. ChemPhysChem, 2008, 9, 1303-1308.	1.0	10
75	A rotational study of the molecular complex tert-butanolÂ·Â·Â·NH3. Chemical Physics Letters, 2008, 463, 330-333.	1.2	20
76	Molecular Recognition of Chiral Conformers: A Rotational Study of the Dimers of Glycidol. Journal of the American Chemical Society, 2008, 130, 13860-13861.	6.6	39
77	Methylsalicylate:Â A Rotational Spectroscopy Study. Journal of Physical Chemistry A, 2007, 111, 9076-9079.	1.1	30
78	Noncovalent Interactions and Internal Dynamics in Dimethoxymethaneâ€“Water. Chemistry - A European Journal, 2007, 13, 5833-5837.	1.7	7
79	Relative Strengths of the Oï£¿Hâ‹…â‹…â‹…Cl and Oï£¿Hâ‹…â‹…â‹…F Hydrogen Bonds. Angewandte Chemie - International Edition, 2006, 45, 2438-2442.	7.2	76
80	Dynamical Behavior and Dipoleâ€“Dipole Interactions of Tetrafluoromethaneâ€“Water. Angewandte Chemie - International Edition, 2006, 45, 6711-6714.	7.2	51
81	Free-jet rotational spectrum and tunneling motion in difluoromethaneâ‹¯krypton. Chemical Physics Letters, 2005, 407, 192-198.	1.2	13
82	Water-ketones hydrogen bonding: The rotational spectrum of cyclobutanone-water. Journal of Chemical Physics, 2005, 123, 164304.	1.2	26
83	CHÂ·Â·Â·O and CHÂ·Â·Â·F Links Form the Cage Structure of Dioxaneâ˜Trifluoromethane. Journal of Physical Chemistry A, 2005, 109, 7402-7404.	1.1	28
84	Structure, dipole moment and large amplitude motions of 1-benzofuran. Physical Chemistry Chemical Physics, 2005, 7, 3317.	1.3	14
85	Ab Initio and Empirical Atom Bond Formulation of the Interaction of the Dimethylether-Ar System. Lecture Notes in Computer Science, 2005, , 1046-1053.	1.0	6
86	Atropisomerism in bisphenols: free jet absorption millimeter wave study of 2,2â€²-biphenol. Journal of Molecular Structure, 2004, 695-696, 353-356.	1.8	2
87	Free and pulsed jet rotational spectra and van der Waals motions of ethanolâ‹¯argon. Chemical Physics Letters, 2004, 399, 39-46.	1.2	14
88	On the conformational equilibrium of glycolamide: A free jet millimetre-wave spectroscopy and computational study. Physical Chemistry Chemical Physics, 2004, 6, 2611-2616.	1.3	13
89	Intramolecular hydrogen bonds and conformational properties of biogenic amines: A free-jet microwave study of tyramine. Physical Chemistry Chemical Physics, 2004, 6, 2863.	1.3	35
90	Free jet rotational spectrum of propylene oxideâ€“krypton and modelling and ab initio calculations for propylene oxideâ€“rare gas dimersElectronic supplementary information (ESI) available: Tables S1 and S2: Experimental transition frequencies of PROâ‹¯84Kr and PROâ‹¯86Kr complexes. See http://www.rsc.org/suppdata/cp/b3/b300386h/. Physical Chemistry Chemical Physics, 2003, 5, 1359-1364.	1.3	23

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91	Conformation of chiral molecules: Free jet rotational spectrum of 2-phenylpropanal. Physical Chemistry Chemical Physics, 2003, 5, 2795.	1.3	5
92	Rotational spectrum, dynamics, and bond energy of the floppy dimethyletherâ‹¯neon van der Waals complex. Journal of Chemical Physics, 2003, 118, 1649-1652.	1.2	28
93	Rotational spectrum of propylene oxide-neon. Molecular Physics, 2002, 100, 3245-3249.	0.8	19
94	Weak, Improper, Câ”OÂ·Â·Â·Hâ”C Hydrogen Bonds in the Dimethyl Ether Dimer. Journal of the American Chemical Society, 2002, 124, 2739-2743.	6.6	127
95	The proton donor/acceptor double role of the peptidic group: free jet rotational spectrum and computational study of lactamide. Chemical Physics, 2002, 283, 111-118.	0.9	6
96	The most stable conformer of the propylene oxideâ€“argon complex. Journal of Molecular Structure, 2002, 612, 309-313.	1.8	14
97	The internal rotation and inversion pathways of the NH2 group in equatorial amino cyclobutane. Journal of Molecular Structure, 2002, 612, 357-367.	1.8	8
98	An investigation of the quadrupole coupling of two N nuclei in the complex pyrimidineâ€“Ar by molecular beam Fourier transform microwave spectroscopy. Journal of Molecular Structure, 2002, 612, 393-399.	1.8	3
99	Free jet absorption millimetre-wave spectrum and model calculations of phenolâ€“water. Chemical Physics, 2002, 283, 185-192.	0.9	35
100	Pure rotational spectrum of 2-pyridoneâ‹¯water and quantum chemical calculations on the tautomeric equilibrium 2-pyridoneâ‹¯water/2-hydroxypyridineâ‹¯water. Chemical Physics Letters, 2002, 360, 155-160.	1.2	41
101	Free jet rotational spectrum and Ar inversion in the dimethyl etherâ€“argon complex. Chemical Physics Letters, 2002, 361, 341-348.	1.2	36
102	Free-Jet Rotational Spectrum and ab Initio Calculations of Formanilide. Journal of Molecular Spectroscopy, 2001, 205, 173-176.	0.4	20
103	Intramolecular Hydrogen Bonds and Conformational Properties of Benzylamine. ChemPhysChem, 2001, 2, 172-177.	1.0	18
104	Rotational spectrum, dynamics and bond energy of 2,5-dihydrofuranâ€”krypton van der Waals complex. Molecular Physics, 2000, 98, 1919-1924.	0.8	8
105	Vibrational relaxation in pyridine upon supersonic expansion. Journal of Chemical Physics, 2000, 113, 8567-8573.	1.2	10
106	Free jet rotational spectrum and ab initio calculations of acetanilide. New Journal of Chemistry, 2000, 24, 821-824.	1.4	29
107	Rotational spectrum, dynamics and bond energy of 2,5-dihydrofuran-krypton van der Waals complex. Molecular Physics, 2000, 98, 1919-1924.	0.8	3
108	Complexes of neon with nonaromatic ring molecules: Rotational spectrum, dynamics, and bond energy of 2,5-dihydrofuranâ€“neon. Journal of Chemical Physics, 1999, 110, 8976-8979.	1.2	7

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109	Investigation of the Rotational Spectrum of Pyrimidine from 3 to 337 GHz: Molecular Structure, Nuclear Quadrupole Coupling, and Vibrational Satellites. Journal of Molecular Spectroscopy, 1999, 195, 332-339.	0.4	47
110	Conformation and Stability of Adducts of Sulfurated Cyclic Compounds with Water:â€‰ Rotational Spectrum of Tetrahydrothiopheneâ^'Water. Journal of Physical Chemistry A, 1999, 103, 5285-5290.	1.1	16
111	Intermolecular Hydrogen Bonding between Water and Pyrazine. Angewandte Chemie - International Edition, 1998, 37, 792-795.	7.2	66
112	Bond energy of complexes of neon with aromatic molecules: rotational spectrum and dynamics of pyridineâ€“neon. Chemical Communications, 1998, , 2625-2626.	2.2	24
113	Free jet absorption millimeter wave spectrum and van der Waals potential energy surface of the 2,3-dihydrofuran-argon adduct. Journal of Chemical Physics, 1997, 107, 5714-5719.	1.2	16
114	Rotational Spectrum of 1,3-Dioxolaneâ€“Argon. Journal of Molecular Spectroscopy, 1997, 184, 145-149.	0.4	8
115	Millimeter-Wave Absorption Free Jet Spectrum, Barriers to Internal Rotation, and Torsional Relaxation inp-Anisaldehyde. Journal of Molecular Spectroscopy, 1997, 185, 374-383.	0.4	13
116	Free jet absorption millimeter wave spectrum of benzophenone. Chemical Physics Letters, 1996, 256, 509-512.	1.2	18
117	Observation of the rotational spectra of van der Waals complexes by free jet absorption millimeter wave spectroscopy: pyridine-argon. Chemical Physics Letters, 1996, 261, 267-271.	1.2	146
118	Microwave spectrum of the axial conformer and potential energy function of the ring puckering motion in fluorocyclobutane. Journal of Molecular Structure, 1996, 376, 25-32.	1.8	25
119	Free jet absorption millimeter wave spectrum of benzene sulphonyl chloride. Chemical Physics Letters, 1995, 243, 302-307.	1.2	8
120	Can hyperspectral imaging be used to map corrosion products on outdoor bronze sculptures?. Journal of Spectral Imaging, 0, , .	0.0	13