Jean Claude Guillemin

List of Publications by Year
in descending order

359	6,086	117625	161849
papers	citations	34 h-index	54 g-index

383	383	383	3489
all docs	docs citations	times ranked	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	2.3	1
2	Gas-phase identification of (Z)-1,2-ethenediol, a key prebiotic intermediate in the formose reaction. Chemical Communications, 2022, 58, 2750-2753.	4.1	14
3	Rotational spectroscopy of isotopic oxirane, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2927" altimg="si24.svg"><mml:mi>c</mml:mi></mml:math>-C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2932" altimg="si25.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>H<mml:math xmlns:mml="	1.2	10
4	Phosphorescence of Hydrogen-Capped Linear Polyyne Molecules C8H2, C10H2 and C12H2 in Solid Hexane Matrices at 20 K. Photochem, 2022, 2, 181-201.	2.2	1
5	Phosphorescence of C5Nâ¯ in Rare Gas Solids. Photochem, 2022, 2, 263-271.	2.2	0
6	Spectroscopic and Computational Characterization of 2-Aza-1,3-butadiene, a Molecule of Astrochemical Significance. Journal of Physical Chemistry A, 2022, 126, 1881-1888.	2.5	2
7	Precursors of the RNA World in Space: Detection of (Z)-1,2-ethenediol in the Interstellar Medium, a Key Intermediate in Sugar Formation. Astrophysical Journal Letters, 2022, 929, L11.	8.3	43
8	Structural and thermochemical studies of pyrrolidine borane and piperidine borane by gas electron diffraction and quantum chemical calculations. Structural Chemistry, 2021, 32, 205-213.	2.0	1
9	An Efficient Photochemical Route Towards Triplet Ethynylphosphinidene, HCCP. Angewandte Chemie - International Edition, 2021, 60, 6400-6402.	13.8	10
10	An Efficient Photochemical Route Towards Triplet Ethynylphosphinidene, HCCP. Angewandte Chemie, 2021, 133, 6470-6472.	2.0	3
11	Rotational spectroscopic study and astronomical search for propiolamide in Sgr B2(N). Astronomy and Astrophysics, 2021, 647, A55.	5.1	5
12	Rotational spectroscopy of isotopic cyclopropenone, c-H₂C₃O, and determination of its equilibrium structure. Astronomy and Astrophysics, 2021, 647, A179.	5.1	11
13	High-Resolution Infrared Spectroscopy of DC3N in the Stretching Region. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	5
14	Organic residues in astrophysical ice analogues: Thermal processing of hydrogenated glyoxal ices under interstellar conditions. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2181-2189.	4.4	1
15	Rotational spectroscopy of imidazole: Accurate spectroscopic information for three vibrationally excited states and the heavy-atom isotopologues up to 295ÂGHz. Journal of Molecular Spectroscopy, 2021, 378, 111452.	1.2	2
16	Millimeter- and submillimeter-wave spectrum of trans-formaldoxime (CH₂NOH). Astronomy and Astrophysics, 2021, 649, A60.	5.1	5
17	Torsional-rotational spectrum of doubly deuterated dimethyl ether (CH₃OCHD₂). Astronomy and Astrophysics, 2021, 651, A120.	5.1	12
18	Hydrogenation of glycolaldehyde to ethylene glycol at 10 K. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2632-2642.	4.4	4

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19	Experimental and Computational Studies on the Reactivity of Methanimine Radical Cation (H2CNH+â€¢) and its Isomer Aminomethylene (HCNH2+â€¢) With C2H2. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	4
20	From Molecular to Cluster Properties: Rotational Spectroscopy of 2-Aminopyridine and of Its Biomimetic Cluster with Water. Molecules, 2021, 26, 6870.	3.8	1
21	Solid-state formation of CO and H2CO via the CHOCHOÂ+ÂH reaction. Monthly Notices of the Royal Astronomical Society, 2020, 491, 289-301.	4.4	7
22	Millimeter wave spectroscopy of cyanoketene (NCâ€“CH=C=O) and an observational search in the ISM. Astronomy and Astrophysics, 2020, 638, A3.	5.1	4
23	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
24	Phosphorescence excitation mapping and vibrational spectroscopy of HC9N and HC11N cyanopolyynes in organic solvents. Journal of Molecular Structure, 2020, 1214, 128201.	3.6	7
25	Unimolecular decomposition of methyl ketene and its dimer in the gas phase: theory and experiment. Physical Chemistry Chemical Physics, 2020, 22, 20394-20408.	2.8	9
26	Quasi-symmetry effects in the threshold photoelectron spectrum of methyl isocyanate. Journal of Chemical Physics, 2020, 153, 074308.	3.0	0
27	VUV photoionization of the CH2NC radical: adiabatic ionization energy and cationic vibrational mode wavenumber determinations. Physical Chemistry Chemical Physics, 2020, 22, 12496-12501.	2.8	7
28	Submillimeter-wave spectroscopy of and interstellar search for thioacetaldehyde. Journal of Molecular Spectroscopy, 2020, 371, 111304.	1.2	8
29	Rotational spectroscopic study of S-methyl thioformate. Astronomy and Astrophysics, 2020, 644, A102.	5.1	2
30	Submillimeter-wave spectroscopy and the radio-astronomical investigation of propynethial (HCâ‰¡CCHS). Astronomy and Astrophysics, 2020, 642, A206.	5.1	11
31	Spectroscopy of methylcyanodiacetylene revisited. Solid parahydrogen and solid neon matrix studies. Journal of Molecular Structure, 2020, 1218, 128437.	3.6	1
32	Alkaline and alkaline-earth cyanoacetylides: A combined theoretical and rotational spectroscopic investigation. Journal of Chemical Physics, 2019, 151, 054312.	3.0	6
33	Direct Experimental Observation of in situ Dehydrogenation of an Amineâ€“Borane System Using Gas Electron Diffraction. Journal of Physical Chemistry A, 2019, 123, 7104-7112.	2.5	5
34	Spectroscopic Studies on Hydrazineâ€“Boranes, Key Compounds for Chemical Hydrogen Storage. Journal of Physical Chemistry A, 2019, 123, 6003-6015.	2.5	1
35	Vibronic structure of the cyanobutadiyne cation. I. VUV photoionization study of HC5N. Journal of Chemical Physics, 2019, 150, 244304.	3.0	1
36	The Laboratory Millimeter and Submillimeter Rotational Spectrum of Lactaldehyde and an Astronomical Search in Sgr B2(N), Orion-KL, and NGC 6334I. Astrophysical Journal, 2019, 883, 18.	4.5	8

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37	Formation of amines: hydrogenation of nitrile and isonitrile as selective routes in the interstellar medium. Astronomy and Astrophysics, 2019, 628, A15.	5.1	12
38	Photoionization and dissociative photoionization of propynal in the gas phase: theory and experiment. Physical Chemistry Chemical Physics, 2019, 21, 14053-14062.	2.8	11
39	Synthesis and Reactivity of 5â€Bromopentaâ€2,4â€diynenitrile (BrC₅N): an Access to Ï€â€Conjugated Scaffolds. Helvetica Chimica Acta, 2019, 102, e1800232.	1.6	7
40	Origin band of the first photoionizing transition of hydrogen isocyanide. Physical Chemistry Chemical Physics, 2019, 21, 2337-2344.	2.8	6
41	Isomerization of cyanopropyne in solid argon. Physical Chemistry Chemical Physics, 2019, 21, 13668-13678.	2.8	4
42	Formation of methyl ketenimine (CH3CHÂ=ÂCÂ=ÂNH) and ethylcyanide (CH3CH2Câ‰¡N) isomers through successive hydrogenations of acrylonitrile (CH2Â=ÂCHÂâˆ™ÂCâ‰¡N) under interstellar conditions: The role of CH3CÂ°HÂâˆ™ÂCâ‰¡N radical in the activation of the cyano group chemistry. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5210-5220.	4.4	10
43	Fourier transform microwave spectroscopy of Criegee intermediates: The conformational behaviour of butyraldehyde oxide. Journal of Chemical Physics, 2019, 150, 104301.	3.0	10
44	Synthesis of N-unsubstituted cycloalkylimines containing a 4 to 8-membered ring. Chemical Communications, 2019, 55, 5647-5650.	4.1	5
45	Photochemistry of XCH₂CN (X = âˆ™Cl, âˆ™SH) in Argon Matrices. Journal of Physical Chemistry A, 2019, 123, 3818-3830.	2.5	3
46	A Comprehensive Spectral Rotational Analysis of the Interstellar Methyl Isocyanate CH₃NCO. Astrophysical Journal, Supplement Series, 2019, 245, 31.	7.7	5
47	Single photon ionization of methyl isocyanide and the subsequent unimolecular decomposition of its cation: experiment and theory. Physical Chemistry Chemical Physics, 2019, 21, 26017-26026.	2.8	5
48	Alkylation of uracil and thymine in the gas phase through interaction with alkylmercury compounds. International Journal of Mass Spectrometry, 2019, 436, 153-165.	1.5	5
49	Isoselenocyanates versus Isothiocyanates and Isocyanates. Journal of Physical Chemistry A, 2018, 122, 2894-2905.	2.5	6
50	Internal Rotation of OH Group in 4-Hydroxy-2-butynenitrile Studied by Millimeter-Wave Spectroscopy. Journal of Physical Chemistry A, 2018, 122, 3163-3169.	2.5	14
51	Laboratory spectroscopy of methoxymethanol in the millimeter-wave range. Physical Chemistry Chemical Physics, 2018, 20, 5509-5516.	2.8	21
52	Low Temperature Synthesis and Phosphorescence of Methylcyanotriacetylene. Journal of Physical Chemistry A, 2018, 122, 89-99.	2.5	7
53	Submillimeter wave spectroscopy of ethyl isocyanide and its searches in Orion. Astronomy and Astrophysics, 2018, 610, A44.	5.1	7
54	Conformational preferences of Criegee intermediates: Isopropyl substituted carbonyl oxide. Journal of Chemical Physics, 2018, 149, 084309.	3.0	12

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55	Glycinamide, a Glycine Precursor, Caught in the Gas Phase: A Laser-ablation Jet-cooled Rotational Study. Astrophysical Journal, 2018, 861, 70.	4.5	10
56	Stability of CH₃NCO in Astronomical Ices under Energetic Processing: A Laboratory Study. Astrophysical Journal, 2018, 861, 61.	4.5	11
57	Reduction of Cî€O functional groups through H addition reactions: a comparative study between H₂CO + H, CH₃CH₂CHO + H and CH₃OCHO + H under interstellar conditions. Physical Chemistry Chemical Physics, 2018, 20, 19971-19978.	2.8	10
58	Synthesis and Electronic Phosphorescence of Dicyanooctatetrayne (NC10N) in Cryogenic Matrixes. Journal of Physical Chemistry A, 2018, 122, 5580-5588.	2.5	3
59	Probing the conformational behavior of the doubly substituted methyl-ethyl Criegee intermediate by FTMW spectroscopy. Journal of Chemical Physics, 2017, 146, 174304.	3.0	20
60	Luminescent probing of the simplest chiral Î±â€amino acidâ€“alanine in an enantiopure and racemic state. Chirality, 2017, 29, 332-339.	2.6	0
61	Transfer of Asymmetry between Proteinogenic Amino Acids under Harsh Conditions. Origins of Life and Evolution of Biospheres, 2017, 47, 371-379.	1.9	1
62	Cryogenic Photochemical Synthesis and Electronic Spectroscopy of Cyanotetracetylene. Journal of Physical Chemistry A, 2017, 121, 7374-7384.	2.5	11
63	Reduction of unsaturated compounds under interstellar conditions: chemoselective reduction of Câ‰¡C and C=C bonds over C=O functional group. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4592-4600.	4.4	14
64	One-step synthesis of conjugated enynenitriles from bromocyanoacetylene. Organic and Biomolecular Chemistry, 2017, 15, 6050-6056.	2.8	4
65	Laboratory study of methyl isocyanate ices under astrophysical conditions. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4222-4230.	4.4	9
66	ALMA Detection of Interstellar Methoxymethanol (CH₃OCH₂OH). Astrophysical Journal Letters, 2017, 851, L46.	8.3	66
67	Submillimeter spectra of 2-hydroxyacetonitrile (glycolonitrile; HOCH₂CN) and its searches in GBT PRIMOS observations of Sgr B2(N). Astronomy and Astrophysics, 2017, 601, A50.	5.1	24
68	Relative stability and proton transfer reactions of unsaturated isocyanides and cyanides. Journal of Physical Organic Chemistry, 2016, 29, 452-459.	1.9	4
69	Gasâ€Phase Infrared Spectroscopy of Substituted Cyanobutadiynes: Roles of the Bromine Atom and Methyl Group as Substituents. ChemPhysChem, 2016, 17, 1018-1024.	2.1	8
70	Fourier-transform microwave spectroscopy of a halogen substituted Criegee intermediate ClCHOO. Journal of Chemical Physics, 2016, 145, 184304.	3.0	32
71	Conformational analysis of ethyl-substituted Criegee intermediate by FTMW spectroscopy. Journal of Chemical Physics, 2016, 145, 224314.	3.0	16
72	Synthesis, Chemistry, and Photochemistry of Methylcyanobutadiyne in the Context of Space Science. Journal of Organic Chemistry, 2016, 81, 3560-3567.	3.2	10

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73	Is the Reaction of C₃N^{â€“} with C₂H₂ a Possible Process for Chain Elongation in Titanâ€™s Ionosphere?. Journal of Physical Chemistry A, 2016, 120, 5337-5347.	2.5	7
74	Excited electronic structure of methylcyanoacetylene probed by VUV Fourier-transform absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 182, 286-295.	2.3	3
75	MILLIMETER WAVE SPECTRUM AND ASTRONOMICAL SEARCH FOR VINYL FORMATE. Astrophysical Journal, 2016, 832, 42.	4.5	6
76	Metallic cyanoacetylides of copper, silver and gold: generation and structural characterization. Physical Chemistry Chemical Physics, 2016, 18, 28538-28547.	2.8	3
77	Low-Temperature Reactivity of C_{2n+1}N^{â€“} Anions with Polar Molecules. Journal of Physical Chemistry Letters, 2016, 7, 2957-2961.	4.6	12
78	An experimental study of the reactivity of CNâ¯ and C3Nâ¯ anions with cyanoacetylene (HC3N). Icarus, 2016, 268, 242-252.	2.5	11
79	Microwave and Quantum Chemical Study of Intramolecular Hydrogen Bonding in 2-Propynylhydrazine (HCâ‰¡CCH2NHNH2). Journal of Physical Chemistry A, 2016, 120, 4071-4078.	2.5	1
80	Rotational Spectrum, Conformational Composition, Intramolecular Hydrogen Bonding, and Quantum Chemical Calculations of Mercaptoacetonitrile (HSCH₂Câ‰¡N), a Compound of Potential Astrochemical Interest. Journal of Physical Chemistry A, 2016, 120, 1992-2001.	2.5	6
81	Elusive anion growth in Titanâ€™s atmosphere: Low temperature kinetics of the C3N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:msup><mml:mrow /><mml:mo>â¯</mml:mo></mml:msup></mml:math> + HC3N reaction. Icarus, 2016, 271, 194-201.	2.5	14
82	Microwave and Quantum Chemical Study of Intramolecular Hydrogen Bonding in 2-Propenylhydrazine (H2Câ•CHCH2NHNH2). Journal of Physical Chemistry A, 2016, 120, 407-416.	2.5	1
83	The Electronic Structure of Some Cyanohydrinsâ€”Aâ€¦Spectroscopically Underâ€investigated Family of Compounds. ChemPhysChem, 2015, 16, 3660-3671.	2.1	3
84	Straightforward Synthesis of 5â€Bromopentaâ€2,4â€diynenitrile and Its Reactivity Towards Terminal Alkynes: A Direct Access to Diene and Benzofulvene Scaffolds. Chemistry - A European Journal, 2015, 21, 6042-6047.	3.3	21
85	Millimeter and submillimeter wave spectra of mono-¹³C-acetaldehydes. Astronomy and Astrophysics, 2015, 579, A46.	5.1	13
86	High temperature sublimation of Î±-amino acids: a realistic prebiotic process leading to large enantiomeric excess. Chemical Communications, 2015, 51, 7054-7057.	4.1	15
87	Conformational Properties of cis- and trans-N-Cyclopropylformamide Studied by Microwave Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2015, 119, 3375-3383.	2.5	3
88	New reactivity of 6,6-bis-donor-substituted pentafulvenes: one-step synthesis of highly substituted [3]cumulene and dihydropentalene. Tetrahedron, 2015, 71, 4393-4399.	1.9	13
89	Gasâ€Phase Infrared Spectra of Three Compounds of Astrochemical Interest: Vinyl, Allenyl, and Propargyl Isocyanides. ChemPhysChem, 2015, 16, 848-854.	2.1	8
90	Proton transfer reactions of hydrazine-boranes. Journal of Physical Organic Chemistry, 2015, 28, 244-249.	1.9	11

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91	High-Resolution Millimeter Wave Spectroscopy and Ab Initio Calculations of Aminomalononitrile. Journal of Physical Chemistry A, 2015, 119, 1048-1054.	2.5	6
92	Microwave and Quantum-Chemical Study of Conformational Properties and Intramolecular Hydrogen Bonding of 2-Hydroxy-3-Butynenitrile (HCâ‰¡CCH(OH)Câ‰¡N). Journal of Physical Chemistry A, 2015, 119, 634-640.	2.5	3
93	Formation of fulvene in the reaction of C2H with 1,3-butadiene. International Journal of Mass Spectrometry, 2015, 378, 232-245.	1.5	16
94	Photoionization spectroscopy of CH3C3N in the vacuum-ultraviolet range. Journal of Molecular Spectroscopy, 2015, 315, 206-216.	1.2	7
95	VUV photoionization and dissociative photoionization spectroscopy of the interstellar molecule aminoacetonitrile: Theory and experiment. Journal of Molecular Spectroscopy, 2015, 315, 196-205.	1.2	7
96	Ring Planarity Problem of 2-Oxazoline Revisited Using Microwave Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2015, 119, 4875-4884.	2.5	1
97	Attrition-induced spontaneous chiral amplification of the Î³ polymorphic modification of glycine. CrystEngComm, 2015, 17, 1513-1517.	2.6	17
98	Vibronic structure of the²Î_uground electronic state of dicyanoacetylene cation revisited by PFI-ZEKE photoelectron spectroscopy andab initiocalculations. Molecular Physics, 2015, 113, 3946-3954.	1.7	7
99	Structure, spectroscopy, and thermal decomposition of 5-chloro-1,2,3,4-thiatriazole: a He I photoelectron, infrared, and quantum chemical study. Structural Chemistry, 2015, 26, 1603-1610.	2.0	3
100	Microwave and Quantum Chemical Study of the Hydrazino Group as Proton Donor in Intramolecular Hydrogen Bonding of (2-Fluoroethyl)hydrazine (FCH₂CH₂NHNH₂). Journal of Physical Chemistry A, 2015, 119, 9252-9261.	2.5	4
101	Gas phase dicyanoacetylene (C4N2) on Titan: New experimental and theoretical spectroscopy results applied to Cassini CIRS data. Icarus, 2015, 248, 340-346.	2.5	39
102	Acidity enhancement of unsaturated bases of group 15 by association with borane and beryllium dihydride. Unexpected boron and beryllium BrÅ¸nsted acids. Dalton Transactions, 2015, 44, 1193-1202.	3.3	17
103	THz spectroscopy and first ISM detection of excited torsional states of¹³C-methyl formate. Astronomy and Astrophysics, 2014, 568, A58.	5.1	18
104	Generation and structural characterization of aluminum cyanoacetylide. Journal of Chemical Physics, 2014, 141, 104305.	3.0	13
105	Functionalised 1-Alkynylarsines: Synthesis, Characterisation, and Attempts of Rearrangement into Functionalised Arsaalkynes. Australian Journal of Chemistry, 2014, 67, 1357.	0.9	1
106	Synthesis and spectroscopy of cyanotriacetylene (HC7N) in solid argon. Journal of Chemical Physics, 2014, 140, 044329.	3.0	15
107	VUV photoionization and dissociative photoionization of the prebiotic molecule acetyl cyanide: Theory and experiment. Journal of Chemical Physics, 2014, 141, 134311.	3.0	8
108	On the Structures, Lifetimes, and Infrared Spectra of Alkylmercury Hydrides. ChemPhysChem, 2014, 15, 530-541.	2.1	3

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109	Low temperature reaction kinetics of CNâ^'+HC3N and implications for the growth of anions in Titanâ€™s atmosphere. Icarus, 2014, 227, 123-131.	2.5	31
110	Synthesis, Microwave Spectrum, Quantum Chemical Calculations, and Conformational Composition of the Novel Compound Cyclopropylethylidynephosphine (C₃H₅CH₂Câ‰¡P). Journal of Physical Chemistry A, 2014, 118, 9994-10001.	2.5	1
111	Microwave Spectrum and Conformational Composition of (Azidomethyl)cyclopropane (C₃H₅CH₂N₃). Journal of Physical Chemistry A, 2014, 118, 6971-6978.	2.5	0
112	Microwave Spectrum, Conformational Composition, and Dipole Moment of (Fluoromethyl)cyclopropane (C₃H₅CH₂F). Journal of Physical Chemistry A, 2014, 118, 2344-2352.	2.5	3
113	Microwave Spectrum and Intramolecular Hydrogen Bonding of 2-Isocyanoethanol (HOCH2CH2Nâ‰¡C). Journal of Physical Chemistry A, 2014, 118, 3120-3127.	2.5	4
114	Microwave Spectrum and Conformational Properties of 4-Isocyano-1-butene (H₂Câ•CHCH₂CH₂Nâ‰¡C). Journal of Physical Chemistry A, 2014, 118, 1413-1419.	2.5	17
115	Highâ€Yield Formation of Substituted Tetracyanobutadienes from Reaction of Ynamides with Tetracyanoethylene. Chemistry - A European Journal, 2014, 20, 9553-9557.	3.3	48
116	Synthesis, Microwave Spectrum, Quantum Chemical Calculations, and Conformational Composition of a Novel Primary Phosphine, Cyclopropylethynylphosphine, (C3H5Câ‰¡CPH2). Journal of Physical Chemistry A, 2014, 118, 9419-9428.	2.5	1
117	Rotational spectrum of 4-methylcyanoallene (CH₃CH=C=CH-CN), a chiral molecule of potential astrochemical interest. Astronomy and Astrophysics, 2014, 564, A82.	5.1	2
118	Microwave Spectrum and Conformational Properties of 4-Isocyano-1-butyne (HCâ‰¡CCH2CH2Nâ‰¡C). Journal of Physical Chemistry A, 2013, 117, 10304-10310.	2.5	4
119	Partial Sublimation of Enantioenriched Amino Acids at Low Temperature. Is it Coming From the Formation of a Euatmotic Composition1 of the Gaseous Phase?. Journal of Organic Chemistry, 2013, 78, 10530-10533.	3.2	19
120	Accurate Semiexperimental Structure of 1,3,4-Oxadiazole by the Mixed Estimation Method. Journal of Physical Chemistry A, 2013, 117, 2278-2284.	2.5	17
121	Gas phase acidities of N-substituted amine-boranes. Journal of Molecular Modeling, 2013, 19, 5089-5095.	1.8	4
122	Synthesis, Microwave Spectrum, and Conformational Properties of 2-Fluoroethyl Azide (FCH₂CH₂N₃). Journal of Physical Chemistry A, 2013, 117, 1935-1940.	2.5	3
123	Deracemization of Amino Acids by Partial Sublimation and via Homochiral Self-Organization. Origins of Life and Evolution of Biospheres, 2013, 43, 129-135.	1.9	12
124	Microwave Spectrum, Conformational Properties, and Dipole Moment of Cyclopropylmethyl Isocyanide (C3H5CH2NC). Journal of Physical Chemistry A, 2013, 117, 5073-5081.	2.5	6
125	Low Temperature Rate Coefficients for the Reaction CN + HC₃N. Journal of Physical Chemistry A, 2013, 117, 12155-12164.	2.5	20
126	Conformational preferences of RCH2CH2CN (RÂ=ÂCH3, F, Cl) cyanides and their corresponding isocyanides. Structural Chemistry, 2013, 24, 1789-1798.	2.0	3

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127	Trimethylaluminum and Borane Complexes of Primary Amines. Inorganic Chemistry, 2013, 52, 346-354.	4.0	6
128	Ionization photophysics and spectroscopy of dicyanoacetylene. Journal of Chemical Physics, 2013, 139, 184304.	3.0	9
129	THE CM-, MM-, AND SUB-MM-WAVE SPECTRUM OF ALLYL ISOCYANIDE AND RADIOASTRONOMICAL OBSERVATIONS IN ORION KL AND THE SgrB2 LINE SURVEYS. Astrophysical Journal, 2013, 777, 120.	4.5	13
130	THE FIRST ASTROPHYSICAL DETECTION, TERAHERTZ SPECTRUM, AND DATABASE FOR THE MONODEUTERATED SPECIES OF METHYL FORMATE HCOOCH₂D. Astrophysical Journal, 2013, 779, 119.	4.5	25
131	Rotational spectrum of ethyl cyanoacetylene (C2H5Câ‰¡Câ€“Câ‰¡N), a compound of potential astrochemical interest. Astronomy and Astrophysics, 2013, 558, A6.	5.1	5
132	Millimeter- and submillimeter-wave spectrum of methyleneaminoacetonitrile. Astronomy and Astrophysics, 2013, 559, A44.	5.1	4
133	The extended spectroscopic database for deuterated species of formamide up to 1 THz. Astronomy and Astrophysics, 2013, 549, A128.	5.1	7
134	Methylcyanobutadiyne: Synthesis, Xâ€ray Structure and Photochemistry; Towards an Explanation of Its Formation in the Interstellar Medium. Chemistry - A European Journal, 2013, 19, 17683-17686.	3.3	12
135	Infrared Spectra of Cyanoacetaldehyde (NCCH 2 CHO): A Potential Prebiotic Compound of Astrochemical Interest. ChemPhysChem, 2013, 14, 2764-2771.	2.1	7
136	New generation mirror systems for the ESRF upgrade beamlines. Journal of Physics: Conference Series, 2013, 425, 052015.	0.4	4
137	Extension of the millimeter- and submillimeter-wave spectral databases of deuterated methyl cyanides (CH₂DCN and CHD₂CN). Astronomy and Astrophysics, 2013, 553, A84.	5.1	15
138	Hydroxyacetonitrile (HOCH₂CN) as a precursor for formylcyanide (CHOCN), ketenimine (CH₂CNH), and cyanogen (NCCN) inÂastrophysical conditions. Astronomy and Astrophysics, 2013, 549, A93.	5.1	13
139	Mono-deuterated dimethyl ether: laboratory spectrum up to 1 THz. Astronomy and Astrophysics, 2013, 552, A117.	5.1	25
140	VUV spectroscopy and photochemistry of five interstellar and putative prebiotic molecules. EAS Publications Series, 2012, 58, 301-306.	0.3	2
141	The submillimeter spectrum of deuterated glycolaldehydes. Astronomy and Astrophysics, 2012, 540, A51.	5.1	11
142	Microwave and submillimeter spectroscopy and first ISM detection of¹⁸O-methyl formate. Astronomy and Astrophysics, 2012, 538, A119.	5.1	43
143	The submillimeter-wave spectrum of the doubly deuterated species of methyl formate HCOOCD₂H. Astronomy and Astrophysics, 2012, 543, A46.	5.1	11
144	Synthesis and Microwave Spectrum of Vinyl Isoselenocyanate (H₂Câ•CHNCSe), a Compound with a Quasilinear CNCSe Chain. Journal of Physical Chemistry A, 2012, 116, 4074-4081.	2.5	5

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145	Can an Amine Be a Stronger Acid than a Carboxylic Acid? The Surprisingly High Acidity of Amineâ€“Borane Complexes. Chemistry - A European Journal, 2012, 18, 15699-15705.	3.3	21
146	Generation of Hâ€“Krâ€“C5N and Hâ€“Xeâ€“C5N molecules. Journal of Molecular Structure, 2012, 1025, 140-146.	3.6	14
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