Gamil A Guirgis

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3449752/publications.pdf

Version: 2024-02-01

43	393	1040056	839539
papers	citations	9	18
		h-index	g-index

44	44	44	279
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pure rotational spectrum and structural determination of 1,1-difluoro-1-silacyclopentane. Journal of Molecular Structure, 2022, 1249, 131563.	3.6	5
2	The molecular structure and curious motions in 1,1-difluorosilacyclopent-3-ene and silacyclopent-3-ene as determined by microwave spectroscopy and quantum chemical calculations. Physical Chemistry Chemical Physics, 2022, 24, 2454-2464.	2.8	4
3	Theoretical Calculations, Microwave Spectroscopy, and Ring-Puckering Vibrations of 1,1-Dihalosilacyclopent-2-enes. Journal of Physical Chemistry A, 2020, 124, 8254-8262.	2.5	7
4	The Conformational Landscape, Internal Rotation, and Structure of 1,3,5-Trisilapentane using Broadband Rotational Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2020, 124, 3825-3835.	2.5	5
5	Molecular Structure of 1-Isocyano-1-silacyclopent-3-ene: A Combined Microwave Spectral and Theoretical Study. Journal of Physical Chemistry A, 2019, 123, 4389-4395.	2.5	1
6	The Molecular Structure of Methylfluoroisocyanato Silane: A Combined Microwave Spectral and Theoretical Study. Journal of Physical Chemistry A, 2015, 119, 652-658.	2.5	5
7	Microwave, r₀ Structural Parameters, Conformational Stability, and Vibrational Assignment of (Chloromethyl)fluorosilane. Journal of Physical Chemistry A, 2015, 119, 11532-11547.	2.5	2
8	Effect of fluorination on methyl internal rotation barriers: Microwave spectra of cyclopropylfluoromethyl silane (c-C3H5SiHFCH3) and cyclopropyldifluoromethyl silane (c-C3H5SiF2CH3). Journal of Molecular Spectroscopy, 2015, 318, 101-106.	1.2	1
9	Molecular Structure of Cyclopropyl (Isocyanato) Silane: A Combined Microwave Spectral and Theoretical Study. Journal of Physical Chemistry A, 2015, 119, 11875-11881.	2.5	4
10	Vibrational spectra, quantum chemical calculations and spectral assignments of 1,1-difluoro-1-silacyclohexane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 51-57.	3.9	3
11	Microwave, Raman and infrared spectra, r0 structural parameters, conformational stability, and ab initio calculations of cyclobutylisocyanate. Structural Chemistry, 2013, 24, 201-214.	2.0	1
12	Molecular Structure of Methyldifluoroisocyanato Silane: A Combined Microwave Spectral and Theoretical Study. Journal of Physical Chemistry A, 2012, 116, 7822-7829.	2.5	5
13	Vibrational spectra, ab initio calculations, and assignments of the fundamentals of the C2v conformer of n-pentane. Journal of Molecular Structure, 2012, 1023, 170-175.	3.6	5
14	The molecular structure of methyl(difluoro)silyl chloride as determined by broadband microwave spectroscopy. Journal of Molecular Structure, 2012, 1023, 222-226.	3.6	2
15	Structure and conformation studies from temperature dependent infrared spectra of xenon solutions and ab initio calculations of cyclobutylgermane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 99, 266-278.	3.9	3
16	Conformational, vibrational, and structural studies of 2,2,3,3,3â€pentafluoropropylamine from Raman and infrared spectra of gas, liquid, xenon solutions, and solid supported by ab initio calculations. Journal of Raman Spectroscopy, 2012, 43, 116-126.	2.5	4
17	Microwave and vibrational spectra, ab initio calculations, conformational stabilities and assignments of the fundamentals of the Cs conformer of n-butylgermane. Journal of Molecular Structure, 2011, 985, 5-13.	3.6	3
18	Microwave and vibrational spectra, ab initio calculations, conformational stabilities and assignments of the fundamentals of the Cs conformer of n-butylsilane. Journal of Molecular Structure, 2011, 1003, 31-40.	3.6	4

#	Article	IF	Citations
19	Conformational stability, ab initio calculations and vibrational assignment for 1,1-difluoro- and 1,1-dichloro-1-silacyclopentane. Journal of Molecular Structure, 2011, 992, 1-8.	3.6	5
20	Infrared and Raman spectra, ab initio calculations, conformational stability and vibrational assignment of 1-bromo-1-silacyclopentane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 858-866.	3.9	9
21	Rotational spectrum of three conformers of 3,3-difluoropentane: Construction of a 480MHz bandwidth chirped-pulse Fourier-transform microwave spectrometer. Journal of Molecular Spectroscopy, 2010, 261, 35-40.	1.2	39
22	The molecular structure of difluoroisocyanato silane: A combined microwave spectral and theoretical study. Journal of Molecular Structure, 2010, 983, 5-11.	3.6	5
23	Raman and infrared spectra, conformational stability, ab initio calculations and vibrational assignment of dimethylsilylisocyanate. Journal of Raman Spectroscopy, 2010, 41, 303-309.	2.5	1
24	Conformational stability from Raman spectra, r₀ structural parameters, and vibrational assignment of methylcyclohexane. Journal of Raman Spectroscopy, 2009, 40, 1919-1930.	2.5	15
25	Vibrational spectroscopic studies, conformations and ab initio calculations of 1,2â€bis(trifluorosilyl)ethane (SiF₃CH₂CH₂SiF₃). Journal of Raman Spectroscopy, 2009, 40, 2111-2122.	2.5	6
26	Conformational stability, r 0 structural parameters, barriers to internal rotation, ab initio calculations, and vibrational assignment for 2,2-difluoroethanol. Structural Chemistry, 2009, 20, 489-503.	2.0	9
27	Vibrational spectra, r0 structural parameters, barriers to internal rotation, and ab initio calculations of ClCH2SiH3, Cl2CHSiH3, ClCH2SiF3 and Cl2CHSiF3. Journal of Molecular Structure, 2009, 922, 93-102.	3.6	7
28	Microwave Spectra and Barrier to Internal Rotation in Cyclopropylmethylsilane. Journal of Physical Chemistry A, 2009, 113, 6077-6082.	2.5	12
29	Conformational stability of chlorocyclohexane from temperature-dependent FT-IR spectra of xenon solutions, r 0 structural parameters, and vibrational assignment. Structural Chemistry, 2008, 19, 579-594.	2.0	28
30	The r 0 structural parameters of equatorial and axial chlorocyclobutane, conformational stability from temperature dependent infrared spectra of xenon solutions, and vibrational assignments. Structural Chemistry, 2008, 19, 935-948.	2.0	10
31	Conformational Stability from Variable Temperature FT-IR Spectra of Krypton Solutions, r₀ Structural Parameters, Vibrational Assignment, and a b Initio Calculations of 4-Fluoro-1-butene. Journal of Physical Chemistry A, 2008, 112, 2268-2281.	2.5	1
32	Infrared and Raman Spectra, conformations,ab initio calculations and spectral assignments of 1,3-disilabutane (SiH3CH2SiH2CH3). Journal of Raman Spectroscopy, 2007, 38, 1159-1173.	2.5	8
33	Conformational stability, r0 structural parameters, ab initio calculations, and vibrational assignment for silacyclopentane. Journal of Molecular Structure, 2007, 832, 73-83.	3.6	11
34	Conformational stability, r0 structural parameters, ab initio calculations, and vibrational assignment for germacyclopentane. Journal of Molecular Structure, 2007, 834-836, 17-29.	3.6	8
35	Vibrational spectroscopic studies, conformations and quantum chemical calculations of 3,3,3-trifluoropropyl- silane and 3,3,3-trifluoropropylsilane-d3. Journal of Raman Spectroscopy, 2006, 37, 29-51.	2.5	7
36	Vibrational spectroscopic studies, conformations and ab initio calculations of 3,3,3-trifluoropropyltrichlorosilane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1335-1346.	3.9	6

#	Article	IF	Citations
37	Vibrational spectrum, ab initio calculation, conformational equilibria and torsional modes of 1,3-dibromopropane. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1547-1557.	3.9	6
38	Conformational stabilities of dicyclopropyl ketone determined from variable temperature infrared spectra of xenon solutions and ab initio calculationsElectronic supplementary information (ESI) available: Calculated energies, diagonal force constants, symmetry coordinates and calculated asymmetric torsional potential function. See http://www.rsc.org/suppdata/cp/b4/b400142g/. Physical Chemistry Chemical Physics, 2004, 6, 2125.	2.8	6
39	3-fluoro-3-methyl-1-butyneElectronic supplementary information (ESI) available: symmetry coordinates for vibrations (Table S1), symmetry selection rules for torsional transitions (Table S2), minimum, maximum and saddle point of potential function (Table S3), and predicted infrared and Raman intensities (Table S4). See http://www.rsc.org/suppdata/cp/b4/b404641b/. Physical Chemistry Chemical Physics, 2004, 6, 3919.	2.8	6
40	Spectra and structure of silicon-containing compounds. XXXVI?Raman and infrared spectra, conformational stability,ab initio calculations and vibrational assignment of ethyldibromosilane. Journal of Raman Spectroscopy, 2003, 34, 322-336.	2.5	96
41	Infrared and Raman spectra, conformational stability, ab initio calculations and vibrational assignment of 1-hexen-4-yne. Physical Chemistry Chemical Physics, 2003, 5, 2541.	2.8	0
42	Raman and infrared spectra, conformational stability, barrier to internal rotation, and ab initio calculations for 1,1-dichloromethyl methyl ether. Journal of Raman Spectroscopy, 1994, 25, 747-760.	2.5	5
43	Raman and infrared spectra, conformational stability, barriers to internal rotation and ab initio calculations of allyl cyanide. Journal of Raman Spectroscopy, 1994, 25, 907-921.	2.5	23