

Ingvar Arnason

List of Publications by Year in descending order

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36
papers

766
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#	ARTICLE	IF	CITATIONS
1	Conformations of Silicon-Containing Rings. 5. Conformational Properties of 1-Methyl-1-silacyclohexane: Gas Electron Diffraction, Low-Temperature NMR, and Quantum Chemical Calculations. <i>Journal of Organic Chemistry</i> , 2002, 67, 3827-3831.	3.2	72
2	Conformational properties of six-membered heterocycles: accurate relative energy differences with DFT, the importance of dispersion interactions and silicon substitution effects. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8689.	2.8	60
3	Conformational Properties of 1-Fluoro-1-silacyclohexane, C ₅ H ₁₀ SiHF: Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum Chemical Calculations. <i>Organometallics</i> , 2007, 26, 6544-6550.	2.3	54
4	Unexpected Conformational Properties of 1-Trifluoromethyl-1-Silacyclohexane, C ₅ H ₁₀ SiHCF ₃ : Gas Electron Diffraction, Low-Temperature NMR Spectroscopic Studies, and Quantum Chemical Calculations. <i>Chemistry - A European Journal</i> , 2007, 13, 1776-1783.	3.3	51
5	Conformational Properties of 1-Silyl-1-Silacyclohexane, C ₅ H ₁₀ SiHSiH ₃ : Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2127-2135.	2.5	39
6	Structures and Energetics of Axial and Equatorial 1-Methyl-1-silacyclohexane. <i>Organometallics</i> , 2006, 25, 3813-3816.	2.3	35
7	Conformational properties of 1-fluoro-1-methyl-silacyclohexane and 1-methyl-1-trifluoromethyl-1-silacyclohexane: Gas electron diffraction, low-temperature NMR, temperature-dependent Raman spectroscopy, and quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2010, 978, 209-219.	3.6	34
8	Comment on "Relative Energies, Stereoelectronic Interactions, and Conformational Interconversion in Silacycloalkanes" <i>International Journal of Quantum Chemistry</i> , 2006, 106, 1975-1978.	2.0	27
9	Relative Energy and Structural Differences of Axial and Equatorial 1-Fluoro-1-silacyclohexane. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9995-9999.	2.5	27
10	Conformational Properties of 1-Halogenated-1-Silacyclohexanes, C ₅ H ₁₀ SiHX (X = F, Cl, Br, I): Raman Spectroscopy, and Quantum-Chemical Calculations. <i>Organometallics</i> , 2013, 32, 6996-7005.	2.3	27
11	Conformations of silicon-containing rings. <i>Computational and Theoretical Chemistry</i> , 1998, 454, 91-102.	1.5	25
12	A phenomenological relationship between molecular geometry change and conformational energy change. <i>Journal of Molecular Structure</i> , 2010, 978, 14-19.	3.6	24
13	Conformations of silicon-containing rings. Part 4. Gas-phase structure of 1,3,5-trisilacyclohexane and comparison with cyclohexane and cyclohexasilane. <i>Journal of Molecular Structure</i> , 2001, 598, 245-250.	3.6	23
14	The rotational spectrum of silacyclohexane. <i>Journal of Molecular Spectroscopy</i> , 2005, 229, 188-192.	1.2	22
15	High Affinity, Selective π Ligands of the 1,2,3,4-Tetrahydro-1,4-disilaspiro[naphthalene-1,4-piperidine] Type: Syntheses, Structures, and Pharmacological Properties. <i>ChemMedChem</i> , 2012, 7, 523-532.	3.2	20
16	Gas-Phase Reactions of M ⁺ and [CpM] ⁺ (M = Fe, Co, Ni) with 1,3,5-Trisilacyclohexane: First Evidence for the Formation of 1,3,5-Trisilabenzene. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1633-1634.	4.4	19
17	Conformational energies of silacyclohexanes C ₅ H ₁₀ SiHMe, C ₅ H ₁₀ SiH(CF ₃) and C ₅ H ₁₀ SiCl(SiCl ₃) from variable temperature Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1337-1342.	2.5	18
18	First Synthesis of the Three Isomeric Parent Disilacyclohexanes. An Improved Preparation of Methylene Di-Grignard. <i>Organic Letters</i> , 2009, 11, 2015-2017.	4.6	16

#	ARTICLE	IF	CITATIONS
19	Gas Phase Structures and Conformational Properties of 1-Silabutane and 2-Silabutane. <i>Journal of Physical Chemistry A</i> , 2003, 107, 243-247.	2.5	15
20	Unexpected Conformational Properties of 1-Trifluoromethyl-1-Silacyclohexane, C ₅ H ₁₀ SiHCF ₃ : Gas Electron Diffraction, Low Temperature NMR, and Quantum Chemical Calculations. <i>Chemistry - A European Journal</i> , 2009, 15, 8929-8929.	3.3	12
21	Conformational properties of 1-tert-butyl-1-silacyclohexane, C ₅ H ₁₀ SiH(t-Bu): gas-phase electron diffraction, temperature-dependent Raman spectroscopy, and quantum chemical calculations. <i>Structural Chemistry</i> , 2015, 26, 445-453.	2.0	12
22	Gas Phase Structures, Energetics, and Potential Energy Surfaces of Disilacyclohexanes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10000-10008.	2.5	11
23	Conformational properties of 1-cyano-1-silacyclohexane, C ₅ H ₁₀ SiHCN: Gas electron diffraction, low-temperature NMR and quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2017, 1132, 149-156.	3.6	11
24	¹ H NMR Investigation of Si-alkylsubstituted 1,3,5-Trisilacyclohexanes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1998, 624, 65-73.	1.2	9
25	Conformational preferences of fluorocyclohexane and 1-fluoro-1-silacyclohexane molecules: ab initio study and NBO analysis. <i>Structural Chemistry</i> , 2013, 24, 763-768.	2.0	9
26	1-Methoxy-1-silacyclohexane: Synthesis, molecular structure and conformational behavior by gas electron diffraction, Raman spectroscopy and quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2018, 1154, 570-578.	3.6	9
27	Cyanocyclohexane: Axial-to-equatorial e^{-} -parity in gas and condensed phases. <i>Journal of Molecular Structure</i> , 2018, 1168, 127-134.	3.6	9
28	Conformational properties of 1-methyl-1-germacyclohexane: low-temperature NMR and quantum chemical calculations. <i>Structural Chemistry</i> , 2013, 24, 769-774.	2.0	8
29	Dissociative electron attachment and dissociative ionization of 1,1-dichloro-1-silacyclohexane and silacyclohexane. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 39-43.	1.5	8
30	Dissociative Photoionization of 1-Halogenated Silacyclohexanes: Silicon Traps the Halogen. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9188-9197.	2.5	6
31	¹³ C NMR Investigation of Si-alkylsubstituted 1,3,5-Trisilacyclohexanes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1998, 624, 1973-1976.	1.2	5
32	1-Dimethylamino-1-silacyclohexane: Synthesis, molecular structure and conformational behavior by gas-phase electron diffraction, Raman spectroscopy and detailed quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2019, 1176, 275-282.	3.6	5
33	²⁹ Si NMR Investigation of Si-alkylsubstituted 1,3,5-Trisilacyclohexanes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1999, 625, 97-101.	1.2	4
34	Gasphasenreaktionen von M ⁺ und [CpM] ⁺ (M = Fe, Co, Ni) mit 1,3,5-Trisilacyclohexan: erste Hinweise auf die Bildung von 1,3,5-Trisilabenzol. <i>Angewandte Chemie</i> , 1992, 104, 1654-1656.	2.0	2
35	A study of ring cleavages in the gas-phase reactions of M ⁺ (M = Fe, Co, Ni) with the carbosilane ring compound c-SiC ₅ H ₁₂ . <i>Organic Mass Spectrometry</i> , 1993, 28, 989-991.	1.3	1
36	The conformational behavior and structure of monosubstituted-1,3,5-trisilacyclohexanes: 1-N,N-dimethylamino-1,3,5-trisilacyclohexane. <i>Journal of Molecular Structure</i> , 2021, 1224, 129046.	3.6	1