

Stephen G Kukolich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6333714/publications.pdf>

Version: 2024-02-01

55
papers

955
citations

430754

18
h-index

501076

28
g-index

57
all docs

57
docs citations

57
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Ammonia Hyperfine Structure with a Two-Cavity Maser. <i>Physical Review</i> , 1967, 156, 83-92.	2.7	123
2	Microwave measurements of proton tunneling and structural parameters for the propiolic acid-formic acid dimer. <i>Journal of Chemical Physics</i> , 2011, 135, 154304.	1.2	49
3	Microwave Spectra and Gas-Phase Structural Parameters of Bis(η -5-cyclopentadienyl)tungsten Dihydride. <i>Organometallics</i> , 2007, 26, 2070-2076.	1.1	46
4	Microwave Spectrum, Structural Parameters, and Quadrupole Coupling for 1,2-Dihydro-1,2-azaborine. <i>Journal of the American Chemical Society</i> , 2010, 132, 5501-5506.	6.6	40
5	Measurements of Hyperfine Structure in NH ₂ D. <i>Journal of Chemical Physics</i> , 1968, 49, 5523-5525.	1.2	37
6	High Resolution Measurements of Hyperfine Structure in the Rotational Spectrum of CH ₃ NC. <i>Journal of Chemical Physics</i> , 1972, 57, 869-871.	1.2	34
7	Beam maser spectroscopy on J = 1 \leftarrow 0, K = 1, and K = 0 transitions in CH ₃ CN and CH ₃ ¹³ CN. <i>Journal of Chemical Physics</i> , 1982, 76, 97-101.	1.2	33
8	Microwave Measurements of ¹⁴ N and D Quadrupole Coupling for (Z)-2-Hydroxypyridine and 2-Pyridone Tautomers. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9531-9539.	1.1	31
9	Hyperfine Structure of N ¹⁵ H ₃ . <i>Physical Review</i> , 1968, 172, 59-63.	2.7	28
10	Communications: Evidence for proton tunneling from the microwave spectrum of the formic acid-propionic acid dimer. <i>Journal of Chemical Physics</i> , 2010, 132, 201101.	1.2	28
11	High-Resolution Measurements of ³⁵ Cl and D Quadrupole Coupling in CH ₂ DCl and CD ₃ Cl. <i>Journal of Chemical Physics</i> , 1971, 55, 4488-4493.	1.2	27
12	Microwave spectrum and structural parameters for the formamide-formic acid dimer. <i>Journal of Chemical Physics</i> , 2010, 133, 174304.	1.2	27
13	Molecular Beam Measurement of the Magnetic Susceptibility Anisotropies and Molecular Quadrupole Moment in H ₂ CO. <i>Journal of Chemical Physics</i> , 1971, 54, 8-11.	1.2	25
14	Microwave Spectroscopy Measurements of Rotational Spectra and DFT Calculations for Two Distinct Structural Isomers of 1,1'-Dimethylferrocene. <i>Journal of the American Chemical Society</i> , 2004, 126, 844-850.	6.6	25
15	Molecular Structure of o-Benzynes from Microwave Measurements. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2645-2651.	1.1	25
16	Microwave measurements and ab initio calculations of structural and electronic properties of N-Et-1,2-azaborine. <i>Journal of Chemical Physics</i> , 2009, 131, 224312.	1.2	24
17	Measurements of the microwave spectrum, Re-H bond length, and Re quadrupole coupling for HRe(CO) ₅ . <i>Journal of Chemical Physics</i> , 1993, 99, 6465-6469.	1.2	23
18	Molecular Structure of Tetracarbonyldihydroiron: Microwave Measurements and Density Functional Theory Calculations. <i>Journal of the American Chemical Society</i> , 1998, 120, 6774-6780.	6.6	21

#	ARTICLE	IF	CITATIONS
19	High-Resolution Molecular Zeeman Measurements in CH ₂ F ₂ ; Observation of ¹⁹ F Chemical Shift Anisotropy. <i>Journal of Chemical Physics</i> , 1972, 56, 4446-4449.	1.2	18
20	Measurements of structural and quadrupole coupling parameters for bromoferrocene using microwave spectroscopy. <i>Journal of Chemical Physics</i> , 1997, 107, 6541-6548.	1.2	18
21	Microwave Spectra and the Molecular Structure of Tetracarbonyl ethyleneiron. <i>Journal of the American Chemical Society</i> , 1999, 121, 4023-4030.	6.6	16
22	The gas-phase structure of chloroferrocene from microwave spectra. <i>Journal of Chemical Physics</i> , 2000, 112, 747-751.	1.2	16
23	Measurements of Deuterium Quadrupole Coupling in Formic Acid. <i>Journal of Chemical Physics</i> , 1969, 51, 358-360.	1.2	15
24	Beam maser measurements of distortion effects on quadrupole coupling in NH ₃ . <i>Journal of Chemical Physics</i> , 1974, 61, 3780-3784.	1.2	14
25	Measurements of microwave spectra and structural parameters for methylferrocene. <i>Journal of Chemical Physics</i> , 2002, 117, 3741-3747.	1.2	14
26	Variation of Cl Quadrupole Coupling with Isotopic Substitution in CH ₃ Cl. <i>Journal of Chemical Physics</i> , 1972, 57, 4052-4054.	1.2	13
27	Deuterium quadrupole coupling in BD ₃ CO. <i>Journal of Chemical Physics</i> , 1982, 77, 4312-4317.	1.2	13
28	Beam maser measurements of hyperfine structure in chloroacetylene-d. <i>Journal of Molecular Spectroscopy</i> , 1982, 94, 95-99.	0.4	13
29	Microwave spectra and structure of the cyclopropanecarboxylic acid-formic acid dimer. <i>Journal of Chemical Physics</i> , 2015, 143, 124311.	1.2	11
30	Deuterium Quadrupole Coupling in Formyl Fluoride. <i>Journal of Chemical Physics</i> , 1971, 55, 610-612.	1.2	10
31	Microwave Structure for the Propiolic Acid-Formic Acid Complex. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9525-9530.	1.1	10
32	Gas phase measurements of mono-fluoro-benzoic acids and the dimer of 3-fluoro-benzoic acid. <i>Journal of Chemical Physics</i> , 2015, 142, 144303.	1.2	10
33	Comment on: Structure of H ₂ S-SO ₂ . <i>Journal of Chemical Physics</i> , 1990, 93, 871-872.	1.2	9
34	Design, construction, and testing of a large-cavity, 1-10 GHz Flygare-Balle spectrometer. <i>Review of Scientific Instruments</i> , 2011, 82, 094103.	0.6	9
35	Gas-Phase Conformational Analysis of 1,4,7-Trithiacyclononane. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9180-9184.	1.1	8
36	Microwave measurements and calculations on the molecular structure of tetracarbonyldihydorruthenium. <i>Journal of Chemical Physics</i> , 1998, 109, 9473-9478.	1.2	8

#	ARTICLE	IF	CITATIONS
37	The rotational spectrum and structure for the argon-cyclopentadienyl thallium van der Waals complex: Experimental and computational studies of noncovalent bonding in an organometallic π -complex. <i>Journal of Chemical Physics</i> , 2008, 129, 054305.	1.2	8
38	Microwave spectrum and molecular structure parameters for the 1,2-cyclohexanedione (mono-enolic) π -formic acid dimer. <i>Chemical Physics Letters</i> , 2014, 613, 86-89.	1.2	8
39	Microwave spectra, molecular structure, and aromatic character of 4a,8a-azaboranaphthalene. <i>Journal of Chemical Physics</i> , 2016, 144, 114303.	1.2	7
40	Rotational spectra and gas phase structure of the maleimide π -Formic acid doubly hydrogen bonded dimer. <i>Journal of Molecular Spectroscopy</i> , 2016, 321, 1-4.	0.4	7
41	Calculations and measurements of the deuterium tunneling frequency in the propionic acid-formic acid dimer and description of a newly constructed Fourier transform microwave spectrometer. <i>Journal of Chemical Physics</i> , 2013, 139, 084316.	1.2	6
42	Structural Characterization of anti- and syn-Allyltricarbonyliron Bromide: π Rotational Spectra, Quadrupole Coupling, and Density Functional Calculations. <i>Inorganic Chemistry</i> , 2000, 39, 827-835.	1.9	4
43	Microwave Spectroscopy Measurements of the Gas-Phase Structure of Cyclopentadienyltungsten Tricarbonyl Hydride. <i>Organometallics</i> , 2005, 24, 2848-2853.	1.1	4
44	Identification and characterization of 1,2-BN cyclohexene using microwave spectroscopy. <i>Chemical Physics Letters</i> , 2015, 639, 88-92.	1.2	4
45	Microwave measurements of the tropolone π -formic acid doubly hydrogen bonded dimer. <i>Journal of Chemical Physics</i> , 2016, 144, 044306.	1.2	4
46	Synthesis, microwave spectra, x-ray structure, and high-level theoretical calculations for formamidinium formate. <i>Journal of Chemical Physics</i> , 2019, 150, 094305.	1.2	4
47	Microwave Spectra and Theoretical Calculations for Two Structural Isomers of Methylmanganese Pentacarbonyl. <i>Inorganic Chemistry</i> , 2020, 59, 6432-6438.	1.9	3
48	Microwave Spectroscopy and Molecular Structure: Some Undergraduate Laboratory Projects. <i>American Journal of Physics</i> , 1973, 41, 1084-1086.	0.3	2
49	Microwave measurements of cyclopropanecarboxylic acid and π -OD isotopologue. <i>Journal of Molecular Spectroscopy</i> , 2015, 313, 1-3.	0.4	2
50	Microwave Spectrum for a Second Higher Energy Conformer of Cyclopropanecarboxylic Acid and Determination of the Gas Phase Structure of the Ground State. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10016-10021.	1.1	2
51	Calculated molecular properties and microwave spectrum analysis for formamidinium formate. <i>Journal of Molecular Spectroscopy</i> , 2020, 372, 111331.	0.4	2
52	Calculations and analysis of ^{55}Mn nuclear quadrupole coupling for asymmetric top acyl methyl manganese pentacarbonyl. <i>Chemical Physics Letters</i> , 2021, 762, 138151.	1.2	2
53	Microwave Spectra, Structure, and the Aromatic Character of 1-Chloroborepin. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1542-1549.	1.1	1
54	Measurements of deuterium quadrupole coupling in propionic acid and fluorobenzenes using pulsed-beam Fourier transform microwave spectrometers. <i>Journal of Chemical Physics</i> , 2015, 142, 154306.	1.2	0

#	ARTICLE	IF	CITATIONS
55	Measurements of microwave and NMR spectra for ^{15}N substituted formamidine formate. Journal of Molecular Spectroscopy, 2021, 378, 111478.	0.4	0