

K S Viswanathan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	H ₂ Complexes of Acetylene-Ethylene: A Matrix Isolation and Computational Study. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1504-1510.	2.5	85
2	Ab Initio Study of Trimethyl Phosphate: Conformational Analysis, Dipole Moments, Vibrational Frequencies, and Barriers for Conformer Interconversion. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2459-2464.	2.5	64
3	Effect of matrix on IR frequencies of acetylene and acetylene-methanol complex: Infrared matrix isolation and <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2007, 127, 104501.	3.0	46
4	Conformations of dimethoxymethane: matrix isolation infrared and <i>ab initio</i> studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 467-478.	3.9	43
5	Conformations of 1,1-Dimethoxyethane: A Matrix Isolation Infrared and <i>ab Initio</i> Studies. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7707-7713.	2.5	30
6	Matrix-Isolation Infrared Spectroscopy of Hydrogen-Bonded Complexes of Triethyl Phosphate with H ₂ O, D ₂ O, and Methanol. <i>Applied Spectroscopy</i> , 1994, 48, 801-807.	2.2	26
7	Conformations of Trimethyl Phosphite: A Matrix Isolation Infrared and <i>ab Initio</i> Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10059-10068.	2.5	23
8	Trimethyl Phosphate-Water Interaction: A Matrix-Isolation Infrared and <i>ab Initio</i> Study. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2944-2953.	2.5	22
9	Matrix Isolation Infrared and DFT Study of the Trimethyl Phosphite-Hydrogen Chloride Interaction: Hydrogen Bonding versus Nucleophilic Substitution. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12014-12023.	2.5	21
10	Matrix isolation infrared and <i>ab initio</i> study of the conformations of 2,2-dimethoxypropane. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1497-1507.	3.9	19
11	Matrix Isolation Infrared Studies of the Reactions of Laser-Ablated Uranium with N ₂ : Reactions beyond Insertion into N ₂ . <i>Journal of Physical Chemistry A</i> , 2001, 105, 3995-4001.	2.5	17
12	The borazine dimer: the case of a dihydrogen bond competing with a classical hydrogen bond. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19067-19074.	2.8	16
13	Hydrogen-Bonded Complexes of Phenylacetylene-Acetylene: Who is the Proton Donor?. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12656-12664.	2.5	15
14	Matrix Isolation Infrared and <i>Ab Initio</i> Study of the Interaction of N-Heterocyclic Carbene with Water and Methanol: A Case Study of a Strong Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9390-9400.	2.5	15
15	Conformations of Trimethoxymethylsilane: Matrix Isolation Infrared and <i>Ab Initio</i> Studies. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9259-9264.	2.5	14
16	The elusive C-H \cdots O complex in the hydrogen bonded systems of Phenylacetylene: A Matrix Isolation Infrared and <i>Ab Initio</i> Study. <i>Journal of Chemical Sciences</i> , 2016, 128, 1557-1569.	1.5	14
17	Conformations of Dimethoxydimethylsilane: Matrix Isolation Infrared and <i>ab Initio</i> Studies. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1879-1886.	2.5	12
18	Does borazine-water behave like benzene-water? A matrix isolation infrared and <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2016, 144, 234307.	3.0	11

#	ARTICLE	IF	CITATIONS
19	Conformations of Diethoxymethane: A Matrix Isolation Infrared and ab Initio Studies. Journal of Physical Chemistry A, 2003, 107, 7727-7732.	2.5	10
20	Discerning Near-Isoergic Isomers. A Matrix Isolation Infrared and ab Initio Study of the Propargyl Alcohol Dimers. Journal of Physical Chemistry A, 2017, 121, 1448-1459.	2.5	10
21	Conformational Landscape of Tri-n-butyl Phosphate: Matrix Isolation Infrared Spectroscopy and Systematic Computational Analysis. Journal of Physical Chemistry A, 2017, 121, 6108-6121.	2.5	9
22	A matrix isolation FTIR investigation of laser-ablated uranium oxide in argon and nitrogen matrices. Bulletin of Materials Science, 1999, 22, 785-790.	1.7	8
23	Energy Landscape of the Phenylacetylene-HCl System: Does This Provide the Gateway to the Markovnikov Addition?. Journal of Physical Chemistry A, 2017, 121, 5797-5808.	2.5	7
24	Multiple Hydrogen Bond Tethers for Grazing Formic Acid in Its Complexes with Phenylacetylene. Journal of Physical Chemistry A, 2018, 122, 2046-2059.	2.5	7
25	A Tale of Two Structures: The Stacks and Ts of Borazine and Benzene Hetero and Homo Dimers. ChemistrySelect, 2018, 3, 864-873.	1.5	4
26	Intermolecular Complexes and Molecular Conformations Directed by Hydrogen Bonds: Matrix Isolation and Ab Initio Studies. Journal of the Indian Institute of Science, 2020, 100, 167-190.	1.9	2
27	From the propargyl alcohol-water complex to the propargyl alcohol dimer: where does the propargyl alcohol-methanol complex fit in?. New Journal of Chemistry, 2019, 43, 3969-3980.	2.8	1
28	Fluorescence Enhancement of Tb ³⁺ in the Tb ³⁺ -Trimesic Acid-Gd ³⁺ Complex: Role of Polynuclear Structures. ChemistrySelect, 2019, 4, 2747-2752.	1.5	1