Ramendu Bhattacharjee

List of Publications by Year
in descending order

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		759233	794594
32	351	12	19
papers	citations	h-index	g-index

32	32	32	73
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An algebraic approach to the study of the vibrational spectra of HCN. Molecular Physics, 2006, 104, 3051-3055.	1.7	45
2	An algebraic approach to the comparative study of the vibrational spectra of monofluoroacetylene (HCCF) and deuterated acetylene (HCCD). Molecular Physics, 2008, 106, 693-702.	1.7	36
3	Vibrational spectroscopy of SnBr4 and CCl4 using Lie algebraic approach. Pramana - Journal of Physics, 2008, 71, 439-445.	1.8	32
4	Vibrational spectroscopy of Cmâ€“H, CÎ²â€“CÎ²stretching vibrations of Nickel metalloporphyrins: An algebraic approach. Molecular Physics, 2008, 106, 1733-1737.	1.7	32
5	U (2) algebraic model applied to vibrational spectra of Nickel Metalloporphyrins. Journal of Molecular Spectroscopy, 2009, 255, 183-188.	1.2	26
6	Vibrational Spectroscopy of CH/CD Stretches in Propadiene: An Algebraic Approach. Chinese Physics Letters, 2009, 26, 020308.	3.3	20
7	Synthesis of Linoleic Acid Capped Copper Nanoparticles and Their Fluorescence Study. Journal of Fluorescence, 2011, 21, 1165-1170.	2.5	17
8	Vibrational spectra of nickel metalloporphyrins: An algebraic approach. Pramana - Journal of Physics, 2009, 72, 517-525.	1.8	16
9	Resonance Raman study on distorted symmetry of porphyrin in nickel octaethyl porphyrin. Pramana - Journal of Physics, 2004, 63, 1073-1082.	1.8	15
10	Vibrational Frequencies of Buckminsterfullerene: An Algebraic Study. Spectroscopy Letters, 2012, 45, 273-279.	1.0	14
11	Vibrational Spectroscopy of Stretching and Bending Modes of Nickel Tetraphenyl Porphyrin: an Algebraic Approach. Chinese Physics Letters, 2009, 26, 093301.	3.3	12
12	Vibrational spectroscopy of C m -C/C b -C b stretching vibrations of copper tetramesityl porphyrin: An algebraic approach. Pramana - Journal of Physics, 2010, 74, 57-66.	1.8	12
13	Optical Properties of Linoleic Acid Protected Gold Nanoparticles. Journal of Nanomaterials, 2011, 2011, 1-4.	2.7	12
14	Study of the vibrational spectra of SO2, H2O18 and D2O16 using the U(4) algebraic model. Vibrational Spectroscopy, 2011, 56, 99-104.	2.2	10
15	Application ofU(2) Algebraic Model in the Study of Stretching Vibrational Spectra of Large Fullerenes C180and C240. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 725-732.	2.1	8
16	Vibrational spectrum of CF4 isotopes in an algebraic model. Pramana - Journal of Physics, 2009, 73, 881-887.	1.8	5
17	Vibrational spectroscopy of bio-molecules: an algebraic approach. Indian Journal of Physics, 2010, 84, 647-652.	1.8	5
18	Vibrational spectra of H2O and CF4 molecules using Lie algebraic approach. Indian Journal of Physics, 2010, 84, 659-664.	1.8	5

#	Article	IF	Citations
19	Spectroscopic Analysis of C20Isomers by theU(2) Algebraic Model. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 403-410.	2.1	5
20	Study of the vibrational spectra of bent XYZ molecule: An algebraic approach. Vibrational Spectroscopy, 2012, 60, 63-67.	2.2	4
21	Infrared-active Vibrational Modes of Fullerene C7O. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 429-435.	2.1	4
22	Stretching Vibrational IR Active Spectra of Carbon Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 861-868.	2.1	4
23	Vibrational IR Spectroscopy of Small Carbon Clusters. Journal of Computational and Theoretical Nanoscience, 2013, 10, 821-824.	0.4	3
24	Overtone spectra of porphyrins and its substituted forms: an algebraic approach. Journal of Biophysical Chemistry, 2010, 01, 119-132.	0.5	2
25	A study of the stretching vibrational spectroscopy of C120O and C120O2 by u(2) lie algebra. Journal of the Serbian Chemical Society, 2013, 78, 85-92.	0.8	2
26	Infrared Spectra of PH₃and NF₃: An Algebraic Approach. Chinese Physics Letters, 2013, 30, 070301.	3.3	2
27	Vibrational IR Active Spectra of Stable Isomers of Fullerene C₈₀. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 914-920.	2.1	2
28	Successful Applications of Lie Algebraic Model to Analyze the Vibrational Spectra of Fluorobenzene. Polycyclic Aromatic Compounds, 2014, 34, 135-142.	2.6	1
29	A generalised algebraic approach to states having same energy but different potential strengths. , 2013, , .		0
30	Infrared Active Spectroscopy of Carbon Nanotubes: A Lie Algebraic Study. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 853-860.	2.1	0
31	The Vibrational Spectra of Monomer and Dimer of Benzene: An Algebraic Approach. Polycyclic Aromatic Compounds, 2014, 34, 388-396.	2.6	0
32	Lie Algebraic Study of Infra-Red Active Spectra of Single-Layer Graphene. Polycyclic Aromatic Compounds, 2014, 34, 214-224.	2.6	0