

Hubert Joe Isaac

List of Publications by Citations

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209
papers

5,227
citations

36
h-index

64
g-index

232
ext. papers

5,770
ext. citations

3
avg, IF

5.81
L-index

#	Paper	IF	Citations
209	Structural conformation and vibrational spectroscopic studies of 2,6-bis(p-N,N-dimethyl benzylidene)cyclohexanone using density functional theory. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 1381-1392	2.3	388
208	Structural and electronic contributions to hyperpolarizability in methyl p-hydroxy benzoate. <i>Journal of Molecular Structure</i> , 2006 , 785, 43-53	3.4	351
207	Charge transfer interactions and nonlinear optical properties of pushpull chromophore benzaldehyde phenylhydrazone: A vibrational approach. <i>Chemical Physics Letters</i> , 2008 , 460, 552-558	2.5	345
206	Spectroscopic analysis and DFT calculations of a food additive carmoisine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 72, 654-62	4.4	255
205	Density functional study on the structural conformations and intramolecular charge transfer from the vibrational spectra of the anticancer drug combretastatin-A2. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 419-428	2.3	208
204	NIR-FT Raman and infrared spectra and ab initio computations of glycinium oxalate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 173-80	4.4	173
203	Efficient π electrons delocalization in prospective pushpull non-linear optical chromophore 4-[N,N-dimethylamino]-4'-nitro stilbene (DANS): A vibrational spectroscopic study. <i>Chemical Physics</i> , 2008 , 343, 83-99	2.3	167
202	Efficient π electron conjugated pushpull nonlinear optical chromophore 1-(4-methoxyphenyl)-3-(3,4-dimethoxyphenyl)-2-propen-1-one: A vibrational spectral study. <i>Journal of Molecular Structure</i> , 2009 , 917, 27-36	3.4	94
201	NIR-FT Raman, FT-IR and surface-enhanced Raman scattering spectra of organic nonlinear optic material: p-hydroxy acetophenone. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 508-519	2.3	90
200	Vibrational spectral studies of methyl 3-(4-methoxyphenyl)prop-2-enoate, a new organic non-linear optic crystal. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 221-236	2.3	75
199	Theoretical and vibrational spectral investigation of sodium salt of acenocoumarol. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1033-1038	2.3	71
198	NIR-FT Raman and FT-IR spectral studies and ab initio calculations of the anti-cancer drug combretastatin-A4. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 939-946	2.3	70
197	Vibrational spectroscopic studies on the natural product, columbianadin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003 , 59, 193-9	4.4	70
196	Near-infrared Fourier transform Raman, surface-enhanced Raman scattering and Fourier transform infrared spectra and ab initio calculations of the natural product nodakenetin angelate. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 63-72	2.3	70
195	DFT computations and spectroscopic analysis of a pesticide: chlorothalonil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 36-44	4.4	54
194	Intramolecular charge transfer and Z-scan studies of a semiorganic nonlinear optical material sodium acid phthalate hemihydrate: a vibrational spectroscopic study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8216-26	2.8	52
193	Vibrational spectra and structural studies of nonlinear optical crystal ammonium D, L-tartrate: a density functional theoretical approach. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 676-684	2.3	48

192	Electronic absorption and vibrational spectra and nonlinear optical properties of 4-methoxy-2-nitroaniline. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9452-60	3.6	48
191	FT-Raman, IR and UV-visible spectral investigations and ab initio computations of a nonlinear food dye amaranth. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 928-936	2.3	48
190	Density functional theory calculations and vibrational spectral analysis of 3,5-(dinitrobenzoic acid). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 1437-44	4.4	47
189	Vibrational analysis and χ -aromaticity in bis (N,N'-diphenyl guanidinium) oxalate crystal: A DFT study. <i>Journal of Molecular Structure</i> , 2006 , 784, 32-46	3.4	47
188	DFT-based molecular modeling, NBO analysis and vibrational spectroscopic study of 3-(bromoacetyl)coumarin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 82, 118-25	4.4	45
187	NBO analysis and vibrational spectra of 2,6-bis(p-methyl benzylidene cyclohexanone) using density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 74, 349-56	4.4	45
186	Vibrational contributions to the second-order nonlinear optical properties of π -conjugated structure acetoacetanilide. <i>Chemical Physics</i> , 2010 , 369, 1-7	2.3	45
185	FTIR as a Tool to Study High-Temperature Phase Formation in Sol-Gel Aluminium Titanate. <i>Journal of Solid State Chemistry</i> , 1997 , 131, 181-184	3.3	45
184	Vibrational spectral investigation and natural bond orbital analysis of pharmaceutical compound 7-Amino-2,4-dimethylquinolinium formate - DFT approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 115, 595-602	4.4	44
183	FT-Raman and FTIR spectra, normal coordinate analysis and ab initio computations of (2-methylphenoxy)acetic acid dimer. <i>Vibrational Spectroscopy</i> , 2008 , 47, 10-20	2.1	44
182	Vibrational spectra and DFT study of anticancer active molecule 2-(4-Bromophenyl)-1H-benzimidazole by normal coordinate analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 319-26	4.4	43
181	Spectral investigations, DFT computations and molecular docking studies of the antimicrobial 5-nitroisatin dimer. <i>Chemical Physics Letters</i> , 2015 , 624, 93-101	2.5	42
180	Intramolecular charge transfer and hydrogen bonding interactions of nonlinear optical material N-benzoyl glycine: Vibrational spectral study. <i>Vibrational Spectroscopy</i> , 2010 , 54, 72-80	2.1	42
179	Electron-phonon coupling and vibrational modes contributing to linear electro-optic effect of the efficient NLO chromophore 4-(N,N-dimethylamino)-N-methyl-4'-toluene sulfonate (DAST) from their vibrational spectra. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 52-63	2.3	41
178	Infrared and Raman spectra, vibrational assignment, NBO analysis and DFT calculations of 6-aminoflavone. <i>Journal of Molecular Structure</i> , 2010 , 980, 24-30	3.4	41
177	NIR-FT Raman and FT-IR spectral investigations of the nonlinear optical chromophore p-bromoacetanilide. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 1148-1158	2.3	41
176	Vibrational spectra and density functional theoretical calculations on the antitumor drug, plumbagin. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 1001-1011	2.3	40
175	Vibrational spectra and ab initio molecular orbital calculations of the novel anti-cancer drug combretastatin A-4 prodrug. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 70, 1208-16	4.4	37

174	Molecular structure, spectroscopic studies and first-order molecular hyperpolarizabilities of p-amino acetanilide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 355-67	4.4	37
173	Experimental and theoretical investigation of third-order nonlinear optical properties of azo dye 1-(2, 5-Dimethoxy-phenylazo)-naphthalen-2-ol by Z-scan technique and quantum chemical computations. <i>Dyes and Pigments</i> , 2018 , 157, 163-178	4.6	36
172	Triphenylamine derived coumarin chalcones and their red emitting OBO difluoride complexes: Synthesis, photophysical and NLO property study. <i>Dyes and Pigments</i> , 2018 , 148, 474-491	4.6	35
171	Molecular structure and vibrational spectra of 2,6-bis(benzylidene)cyclohexanone: a density functional theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 113-21	4.4	35
170	Vibrational spectra and scaled quantum chemical studies of the structure of Martius yellow sodium salt monohydrate. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1121-1126	2.3	34
169	Spectroscopic, DFT and Z-scan supported investigation of dicyanoisophorone based push-pull NLOphoric styryl dyes. <i>Optical Materials</i> , 2017 , 66, 494-511	3.3	33
168	Synthesis, spectroscopic investigations, DFT studies, molecular docking and antimicrobial potential of certain new indole-isatin molecular hybrids: Experimental and theoretical approaches. <i>Journal of Molecular Structure</i> , 2018 , 1153, 333-345	3.4	33
167	Third-order optical nonlinearities of 1,5-Diaminoanthraquinone for optical limiting application. <i>Optics and Laser Technology</i> , 2018 , 108, 218-234	4.2	33
166	Enhancement of NLO Properties in OBO Fluorophores Derived from Carbazole-Coumarin Chalcones Containing Carboxylic Acid at the N-Alkyl Terminal End. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14313-14325	3.8	31
165	Changes in the vibrational spectral modes by the nonbonded interactions in the NLO crystal vanillin. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 1091-1100	2.3	30
164	Non-linear optical study of BODIPY-benzimidazole conjugate by solvatochromic, Z-scan and theoretical methods. <i>Optical Materials</i> , 2017 , 64, 453-460	3.3	29
163	Vibrational spectra and potential energy distributions for 1-benzyl-1H-imidazole by normal coordinate analysis. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 537-545	2.3	29
162	Molecular structure, vibrational spectra and nonlinear optical properties of l-Valine Hydrobromide: DFT study. <i>Journal of Molecular Structure</i> , 2011 , 985, 48-56	3.4	29
161	Non-bonded interactions and its contribution to the NLO activity of Glycine Sodium Nitrate [A vibrational approach. <i>Journal of Molecular Structure</i> , 2008 , 877, 20-35	3.4	28
160	Vibrational spectra and phase transition in triglycine sulpho-phosphate. <i>Crystal Research and Technology</i> , 1994 , 29, 685-692	1.3	28
159	NIR-FT Raman, FT-IR and surface-enhanced Raman scattering spectra, with theoretical simulations on chloramphenicol. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1772-1783	2.3	27
158	Detection and quantification of adulteration in sandalwood oil through near infrared spectroscopy. <i>Analyst, The</i> , 2010 , 135, 2676-81	5	26
157	NLO properties of 1, 4-naphthoquinone, Juglone and Lawsone by DFT and Z-scan technique [A detailed study. <i>Optical Materials</i> , 2017 , 72, 549-558	3.3	25

156	Vibrational spectra and first order hyperpolarizability studies of dimethyl amino pyridinium 4-nitrophenolate 4-nitrophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 81, 151-61	4.4	25
155	Third-order nonlinear optical studies of two novel chalcone derivatives using Z-scan technique and DFT method. <i>Optics and Laser Technology</i> , 2019 , 120, 105697	4.2	24
154	Vibrational spectral studies and the non-linear optical properties of a novel NLO material L-prolinium tartrate. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 1427-1441	2.3	24
153	Density functional theory studies on molecular structure and vibrational spectra of NLO crystal l-phenylalanine phenylalanium nitrate for THz application. <i>Journal of Molecular Structure</i> , 2011 , 1006, 513-526	3.4	23
152	Charge transfer interaction and terahertz studies of a nonlinear optical material L-glutamine picrate: A DFT study. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 13055-64	2.8	23
151	FT-IR, Raman and DFT study of 2-amino-5-fluorobenzoic acid and its biological activity with other halogen (Cl, Br) substitution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 332-7	4.4	23
150	Vibrational spectra and normal coordinate analysis of plant growth regulator 1-naphthalene acetamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 859-66	4.4	23
149	NLOphoric multichromophoric auxiliary methoxy aided triphenylamine D- π A chromophores \square Spectroscopic and computational studies. <i>Optical Materials</i> , 2017 , 73, 602-616	3.3	22
148	Spectroscopic analysis and charge transfer interaction studies of 4-benzyloxy-2-nitroaniline insecticide: a density functional theoretical approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 583-96	4.4	22
147	DFT computation and experimental analysis of vibrational and electronic spectra of phenoxy acetic acid herbicides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 108, 89-99	4.4	22
146	Density functional theory calculation and vibrational spectral analysis of 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 1076-1084	2.3	22
145	Benzothiazole pyrazole containing emissive azo dyes decorated with ESIPT core: Linear and non linear optical properties, Z scan, optical limiting, laser damage threshold with comparative DFT studies. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127401	3.4	22
144	Natural bond orbital analysis and vibrational spectroscopic studies of H-bonded N,N'-diphenylguanidinium nitrate. <i>Journal of Molecular Structure</i> , 2007 , 830, 156-166	3.4	21
143	Quantum chemical computations and Fourier transform infrared spectral studies of a nonlinear food dye E110. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 69, 82-90	4.4	20
142	Vibrational spectral analysis of anti-neurodegenerative drug Levodopa: A DFT study. <i>Journal of Molecular Structure</i> , 2013 , 1034, 119-127	3.4	19
141	Z-scan measurements of the third-order optical nonlinearities and vibrational spectral studies by DFT computations on azo dye 1-(2-Methylphenylazo)-2-naphthol. <i>Optics and Laser Technology</i> , 2017 , 97, 390-399	4.2	19
140	Raman and IR spectra of Alanine and sarcosine monophosphates. <i>Journal of Raman Spectroscopy</i> , 1991 , 22, 423-425	2.3	19
139	Quantum chemical computations, vibrational spectroscopic analysis and antimicrobial studies of 2,3-Pyrazinedicarboxylic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 723-35	4.4	18

138	Qualitative and quantitative analysis in sandalwood oils using near infrared spectroscopy combined with chemometric techniques. <i>Food Chemistry</i> , 2012 , 135, 213-218	8.5	18
137	Spectroscopic investigations and ab initio computations of the dye Chromotrope 2R. <i>Solid State Sciences</i> , 2009 , 11, 1275-1282	3.4	18
136	NIR-FT Raman, FT-IR and surface-enhanced Raman scattering and DFT based theoretical studies on the adsorption behaviour of (S)-phenylsuccinic acid on silver nanoparticles. <i>Journal of Chemical Sciences</i> , 2010 , 122, 511-519	1.8	18
135	FT-IR and FT-Raman spectra, MEP and HOMO-LUMO of 2,5-dichlorobenzonitrile: DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt B, 464-72	4.4	17
134	Feasibility of using near infrared spectroscopy to detect and quantify an adulterant in high quality sandalwood oil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 115, 568-73	4.4	17
133	Growth and vibrational spectral investigation of nonlinear optical crystal L-Argininum Perchlorate-DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 109, 173-8	4.4	17
132	Nonplanar property study of antifungal agent tolinaftate-spectroscopic approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 993-1003	4.4	17
131	Vibrational spectra and first-order molecular hyperpolarizabilities of p-hydroxybenzaldehyde dimer. <i>Journal of Molecular Structure</i> , 2010 , 983, 12-21	3.4	17
130	Vibrational spectra and natural bond orbital analysis of organic crystal L-prolinium picrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 96, 10-7	4.4	16
129	FT-IR, FT-Raman, NMR spectra and DFT simulations of 4-(4-fluoro-phenyl)-1H-imidazole. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2013 , 114, 525-536	0.7	16
128	Molecular structure and vibrational spectral investigation of charge transfer NLO crystal naphthalene picrate for THz application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 108, 256-67	4.4	16
127	Vibrational spectral studies on charge transfer and ionic hydrogen-bonding interactions of nonlinear optical material L-arginine nitrate hemihydrate. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 18-30	2.3	16
126	Azure A chloride: computational and spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 176-182	1.8	16
125	DFT based relaxed PES scan studies and SERS of anti cancer drug, Combretastatin A-4. <i>Laser Physics Letters</i> , 2005 , 2, 544-550	1.5	16
124	Structural and nonlinear optical properties of cross-conjugated system benzophenone thiosemicarbazone: a vibrational spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 815-824	2.3	15
123	Analysis of vibrational spectra of L-alanyl-glycine based on density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 252-62	4.4	15
122	Synthesis, Hirshfeld surface analysis, laser damage threshold, third-order nonlinear optical property and DFT computation studies of Dichlorobis(DL-valine)zinc(II): A spectroscopic approach. <i>Optical Materials</i> , 2018 , 75, 285-296	3.3	15
121	Viscosity induced emission of red-emitting NLOphoric coumarin morpholine-thiazole hybrid styryl dyes as FMRs: Consolidated experimental and theoretical approach. <i>Optical Materials</i> , 2018 , 79, 90-107	3.3	14

120	Excitation energy transfer processes in BODIPY based donor-acceptor system - Synthesis, photophysics, NLO and DFT study. <i>Optical Materials</i> , 2018 , 84, 795-806	3.3	14
119	Charge transfer interaction and nonlinear optical properties of barium chloride and thiourea complexes: a vibrational spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1462-1469	2.3	14
118	First order molecular hyperpolarizabilities and intramolecular charge transfer from the vibrational spectra of NLO material: ethyl-3-(3, 4-dihydroxyphenyl)-2-propenoate. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1822-1830	2.3	14
117	Vibrational spectroscopic studies and DFT computation of the nonlinear optical molecule L-Valinium formate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 126, 170-7	4.4	13
116	Spectroscopic investigation and hydrogen-bonding analysis of triazinones. <i>Journal of Molecular Modeling</i> , 2012 , 18, 3587-608	2	13
115	Vibrational spectra of $\text{CaNa}_2\text{P}_2\text{O}_7 \cdot 4\text{H}_2\text{O}$, $\text{CaNH}_4\text{NaP}_2\text{O}_7 \cdot 3\text{H}_2\text{O}$ and $\text{CdNH}_4\text{NaP}_2\text{O}_7 \cdot 3\text{H}_2\text{O}$. <i>Journal of Raman Spectroscopy</i> , 1991 , 22, 537-539	2.3	13
114	Cu:ZnS and Al:ZnS thin films prepared on FTO substrate by nebulized spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4612-4623	2.1	13
113	Investigation of structural, optical and electrical properties of ZnS thin films prepared by nebulized spray pyrolysis for solar cell applications. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	12
112	Molecular docking and structural analysis of non-opioid analgesic drug acemetacin with halogen substitution: A DFT approach. <i>Journal of Molecular Structure</i> , 2016 , 1123, 180-190	3.4	12
111	Analysis of vibrational spectra and nonlinear optical properties of organic molecule L-alaninium formate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 174-80	4.4	12
110	The biomolecule of 5-bromocytosine: FT-IR and FT-Raman spectra and DFT calculations. Identification of the tautomers in the isolated state and simulation the spectra in the solid state. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 104-22	4.4	12
109	Simulation of a tetramer form of 5-chlorouracil: the vibrational spectra and molecular structure in the isolated and in the solid state by using DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 110, 404-18	4.4	12
108	Normal coordinate analysis and Nonlinear Optical Response of cross-conjugated system 4,4-Dimethyl Benzophenone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 574-83	4.4	12
107	Intramolecular charge delocalization and nonlinear optical properties of push-pull chromophore 1-(4-N,N-dimethylaminopyridinium) acetic acid bromide monohydrate from vibrational spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 264-72	4.4	11
106	Spectroscopic investigation, fungicidal activity and molecular dynamics simulation on benzimidazol-2-yl carbamate derivatives. <i>Journal of Molecular Structure</i> , 2019 , 1176, 226-237	3.4	11
105	Biological applications and spectroscopic investigations of 4-nitrophenol-urea dimer: A DFT approach. <i>Chemical Physics Letters</i> , 2016 , 645, 59-70	2.5	10
104	FT-IR, FT-Raman spectra and other molecular properties of 3,5-dichlorobenzonitrile: a DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 509-17	4.4	10
103	Influence of intermolecular amide hydrogen bonding on the geometry, atomic charges, and spectral modes of acetanilide: An ab initio study. <i>Laser Physics</i> , 2006 , 16, 1253-1263	1.2	10

102	(2 E)-2-[1-(1,3-Benzodioxol-5-yl)-3-(1 H -imidazol-1-yl)propylidene]- N -(4-methoxyphenyl)hydrazinecarboxamide: Synthesis, crystal structure, vibrational analysis, DFT computations, molecular docking and antifungal activity. <i>Journal of Molecular Structure</i> , 2018 , 1166, 121-130	3.4	9
101	Structure and nonlinear optical property analysis of L-Methioninium oxalate: a DFT approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 143, 40-8	4.4	9
100	Surface-enhanced Raman scattering and DFT theoretical studies on the adsorption behavior of plumbagin on silver nanoparticles. <i>Indian Journal of Physics</i> , 2011 , 85, 477-484	1.4	9
99	Structural conformations and electronic interactions of the natural product, oroxylin: a vibrational spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1821-1831	2.3	9
98	Vibrational Spectra and Density functional calculation of Organic Nonlinear Optic Crystal p-Amino Acetanilide. <i>Journal of Physics: Conference Series</i> , 2006 , 28, 123-126	0.3	9
97	Vibrational spectra and ab initio computations of sarcosinium oxalate monohydrate. <i>Laser Physics</i> , 2006 , 16, 1242-1252	1.2	9
96	Z-scan and DFT approach for investigating the NLO properties of imidazole fused anthraquinone dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 390, 112327	4.7	9
95	FT-IR and Raman spectroscopic and DFT studies of anti-cancer active molecule N- $\{(meta-ferrocenyl)$ Benzoyl} - l-alanine - glycine ethyl ester. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 145, 523-530	4.4	8
94	Experimental and theoretical spectroscopic analysis, hydrogen bonding, reduced density gradient and antibacterial activity study on 2-Phenyl quinoline alkaloid. <i>Chemical Physics</i> , 2020 , 536, 110827	2.3	8
93	Studies on molecular structure, vibrational spectra and molecular docking analysis of 3-Methyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl 4-aminobenzoate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 130, 591-603	4.4	8
92	Electronic absorption and vibrational spectra and nonlinear optical properties of L-valinium succinate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 85, 66-73	4.4	8
91	Synthesis and Characterization of Iron Oxide Nanoparticles using DMSO as a Stabilizer. <i>Materials Today: Proceedings</i> , 2015 , 2, 1051-1055	1.4	8
90	Molecular structure, vibrational spectra and first-order molecular hyperpolarizabilities of potential anti-cancer drug, combretastatin-A1. <i>Journal of Molecular Structure</i> , 2008 , 889, 129-143	3.4	8
89	Structural activity, fungicidal activity and molecular dynamics simulation of certain triphenyl methyl imidazole derivatives by experimental and computational spectroscopic techniques. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 212, 105-120	4.4	8
88	NLO characteristics of D- β -A coumarin-thiophene bridged azo dyes by Z-scan and DFT methods. <i>Molecular Physics</i> , 2020 , 118, e1662127	1.7	8
87	Synthesis, crystal structure, vibrational profiling, DFT studies and molecular docking of N-(4-chloro-2- $\{[2-(1H-indol-2-ylcarbonyl) hydrazinyl](oxo)acetyl\}$ phenyl)acetamide.DMSO: A new antiproliferative agent. <i>Journal of Molecular Structure</i> , 2018 , 1155, 457-468	3.4	8
86	FT-IR, FT-Raman spectra and other molecular properties of 2,4- dichlorobenzonitrile: a interpretation by a DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 123, 89-97	4.4	7
85	Molecular first order hyperpolarizability and vibrational spectral investigation of Warfarin sodium. <i>Chemical Physics</i> , 2010 , 378, 88-102	2.3	7

84	Spectroscopic, DFT and Z-scan approach to study linear and nonlinear optical properties of Disperse Red 277. <i>Optical Materials</i> , 2020 , 99, 109536	3.3	7
83	Coherent source interaction, third-order nonlinear response of synthesized PEG coated magnetite nanoparticles in polyethylene glycol and its application. <i>Optics and Laser Technology</i> , 2018 , 98, 84-91	4.2	7
82	Structural activity (monomer and dimer), spectroscopic analysis, chemical reactivity, fungicidal activity and molecular dynamics simulation of phenyl benzamide fungicides: A combined experimental and theoretical approach. <i>Journal of Molecular Structure</i> , 2019 , 1193, 24-44	3.4	6
81	Spectroscopic, quantum mechanical and docking studies on organochlorine insecticides by density functional theory. <i>Journal of Molecular Structure</i> , 2020 , 1208, 127904	3.4	6
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