

Y Sheena Mary

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6741572/y-sheena-mary-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

198
papers

3,374
citations

33
h-index

42
g-index

211
ext. papers

4,139
ext. citations

3.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
198	FT-IR, FT-Raman and SERS spectra of L-proline. <i>Journal of the Iranian Chemical Society</i> , 2009 , 6, 138-144	2	73
197	Synthesis and spectroscopic study of three new oxadiazole derivatives with detailed computational evaluation of their reactivity and pharmaceutical potential. <i>Journal of Molecular Structure</i> , 2018 , 1173, 469-480	3.4	70
196	FT-IR, FT-Raman, SERS and computational study of 5-ethylsulphonyl-2-(o-chlorobenzyl)benzoxazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 96, 617-25	4.4	64
195	Molecular structure, FT-IR, vibrational assignments, HOMO-LUMO analysis and molecular docking study of 1-[5-(4-Bromophenyl)-3-(4-fluorophenyl)-4,5-dihydro-1H-pyrazol-1-yl]ethanone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt B, 473-82	4.4	61
194	Vibrational spectroscopic studies and ab initio calculations of 5-nitro-2-(p-fluorophenyl)benzoxazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 566-71	4.4	53
193	Exploring the detailed spectroscopic characteristics, chemical and biological activity of two cyanopyrazine-2-carboxamide derivatives using experimental and theoretical tools. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 224, 117414	4.4	53
192	FT-IR, NBO, HOMO-LUMO, MEP analysis and molecular docking study of 1-[3-(4-Fluorophenyl)-5-phenyl-4,5-dihydro-1H-pyrazol-1-yl]ethanone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt B, 483-93	4.4	52
191	Synthesis, characterization and biological investigation of glycine-based sulfonamide derivative and its complex: Vibration assignment, HOMO LUMO analysis, MEP and molecular docking. <i>Journal of Molecular Structure</i> , 2019 , 1181, 244-252	3.4	52
190	Synthesis, spectral properties, chemical descriptors and light harvesting studies of a new bioactive azo imidazole compound. <i>Journal of Molecular Structure</i> , 2020 , 1199, 127035	3.4	52
189	Two neoteric pyrazole compounds as potential anti-cancer agents: Synthesis, electronic structure, physico-chemical properties and docking analysis. <i>Journal of Molecular Structure</i> , 2019 , 1181, 455-466	3.4	51
188	Vibrational spectroscopic, molecular structure, first hyperpolarizability and NBO studies of 4Smethylbiphenyl-2-carbonitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 98, 91-9	4.4	50
187	Understanding reactivity of two newly synthesized imidazole derivatives by spectroscopic characterization and computational study. <i>Journal of Molecular Structure</i> , 2018 , 1158, 176-196	3.4	49
186	Vibrational spectra, HOMO, LUMO, NBO, MEP analysis and molecular docking study of 2,2-diphenyl-4-(piperidin-1-yl)butanamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 150, 543-56	4.4	48
185	IR, Raman, SERS and computational study of 2-(benzylsulfanyl)-3,5-dinitrobenzoic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 113, 28-36	4.4	45
184	Synthesis and spectroscopic study of two new pyrazole derivatives with detailed computational evaluation of their reactivity and pharmaceutical potential. <i>Journal of Molecular Structure</i> , 2019 , 1181, 599-612	3.4	44
183	Quantum mechanical and photovoltaic studies on the cocrystals of hydrochlorothiazide with isonazid and malonamide. <i>Journal of Molecular Structure</i> , 2019 , 1197, 719-726	3.4	43
182	Spectroscopic analysis and molecular docking of imidazole derivatives and investigation of its reactive properties by DFT and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2018 , 1158, 156-175	3.4	41

181	Vibrational spectroscopic studies and computational study of quinoline-2-carbaldehyde benzoyl hydrazone. <i>Journal of Molecular Structure</i> , 2010 , 973, 36-46	3.4	41
180	Molecular structure, FT-IR, NBO, HOMO and LUMO, MEP and first order hyperpolarizability of (2E)-1-(2,4-Dichlorophenyl)-3-(3,4,5-trimethoxyphenyl)prop-2-en-1-one by HF and density functional methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 81-92	4.4	40
179	DFT and experimental (FT-IR and FT-Raman) investigation of vibrational spectroscopy and molecular docking studies of 2-(4-oxo-3-phenethyl-3,4-dihydroquinazolin-2-ylthio)-N-(3,4,5-trimethoxyphenyl) acetamide. <i>Journal of Molecular Structure</i> , 2016 , 1113, 133-145	3.4	40
178	DFT and molecular docking investigations of oxacam derivatives. <i>Heliyon</i> , 2019 , 5, e02175	3.6	39
177	Vibrational spectroscopic studies, Fukui functions, HOMO-LUMO, NLO, NBO analysis and molecular docking study of (E)-1-(1,3-benzodioxol-5-yl)-4,4-dimethylpent-1-en-3-one, a potential precursor to bioactive agents. <i>Journal of Molecular Structure</i> , 2016 , 1123, 375-383	3.4	38
176	Spectroscopic, single crystal XRD structure, DFT and molecular dynamics investigation of 1-(3-chloro-4-fluorophenyl)-3-[3-(trifluoromethyl)phenyl]thiourea. <i>RSC Advances</i> , 2016 , 6, 111997-112015	3.7	38
175	FT-IR, FT-Raman and NMR characterization of 2-isopropyl-5-methylcyclohexyl quinoline-2-carboxylate and investigation of its reactive and optoelectronic properties by molecular dynamics simulations and DFT calculations. <i>Journal of Molecular Structure</i> , 2017 , 1127, 124-137	3.4	38
174	Theoretical Studies on the Structure and Various Physico-Chemical and Biological Properties of a Terphenyl Derivative with Immense Anti-Protozoan Activity. <i>Polycyclic Aromatic Compounds</i> , 2021 , 41, 825-840	1.3	37
173	Modification of benzoxazole derivative by bromine-spectroscopic, antibacterial and reactivity study using experimental and theoretical procedures. <i>Journal of Molecular Structure</i> , 2017 , 1141, 495-511	3.4	36
172	Spectroscopic investigations, NBO, HOMO-LUMO, NLO analysis and molecular docking of 5-(adamantan-1-yl)-3-anilinomethyl-2,3-dihydro-1,3,4-oxadiazole-2-thione, a potential bioactive agent. <i>Journal of Molecular Structure</i> , 2015 , 1096, 1-14	3.4	36
171	Conformational profile, vibrational assignments, NLO properties and molecular docking of biologically active herbicide 1,1-dimethyl-3-phenylurea. <i>Heliyon</i> , 2019 , 5, e01987	3.6	36
170	Vibrational spectroscopic studies and computational study of 4-fluoro-N-(2-hydroxy-4-nitrophenyl)phenylacetamide. <i>Journal of Molecular Structure</i> , 2011 , 994, 223-234	3.4	36
169	Spectroscopic characterization of 1-[3-(1 H-imidazol-1-yl)propyl]-3-phenylthiourea and assessment of reactive and optoelectronic properties employing DFT calculations and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2017 , 1129, 72-85	3.4	35
168	Molecular conformational analysis, vibrational spectra, NBO, NLO, HOMO-LUMO and molecular docking studies of ethyl 3-(E)-(anthracen-9-yl)prop-2-enoate based on density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 150, 533-42	4.4	35
167	Theoretical investigations on the molecular structure, vibrational spectral, HOMO-LUMO and NBO analysis of 9-[3-(Dimethylamino)propyl]-2-trifluoro-methyl-9H-thioxanthen-9-ol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 132, 491-501	4.4	34
166	Cocrystals of pyrazinamide with p-toluenesulfonic and ferulic acids: DFT investigations and molecular docking studies. <i>Journal of Molecular Structure</i> , 2019 , 1175, 916-926	3.4	33
165	FT-IR, molecular structure, first order hyperpolarizability, HOMO and LUMO analysis, MEP and NBO analysis of 2-(4-chlorophenyl)-2-oxoethyl 3-nitrobenzoate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 126, 208-19	4.4	33
164	Vibrational spectroscopic and quantum chemical calculations of (E)-N-Carbamimidoyl-4-((naphthalen-1-yl-methylene)amino)benzene sulfonamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 87, 29-39	4.4	32

163	Hybrid and bioactive cocrystals of pyrazinamide with hydroxybenzoic acids: Detailed study of structure, spectroscopic characteristics, other potential applications and noncovalent interactions using SAPT. <i>Journal of Molecular Structure</i> , 2020 , 1202, 127316	3.4	32
162	Spectroscopic analysis of 8-hydroxyquinoline derivatives and investigation of its reactive properties by DFT and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2018 , 1156, 336-347	3.4	32
161	Infrared spectrum, structural and optical properties and molecular docking study of 3-(4-fluorophenyl)-5-phenyl-4,5-dihydro-1H-pyrazole-1-carbaldehyde. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 529-38	4.4	31
160	Spectroscopic investigation (FT-IR and FT-Raman), vibrational assignments, HOMO-LUMO analysis and molecular docking study of 2-(Adamantan-1-yl)-5-(4-nitrophenyl)-1,3,4-oxadiazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 973-83	4.4	31
159	FT-IR, FT-Raman, surface enhanced Raman scattering and computational study of 2-(p-fluorobenzyl)-6-nitrobenzoxazole. <i>Journal of Molecular Structure</i> , 2012 , 1012, 22-30	3.4	31
158	Spectroscopic investigations and computational study of 2-[acetyl(4-bromophenyl)carbamoyl]-4-chlorophenyl acetate. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 707-716	2.3	31
157	Comprehensive quantum mechanical studies on three bioactive anastrozole based triazole analogues and their SERS active graphene complex. <i>Journal of Molecular Structure</i> , 2020 , 1217, 128388	3.4	30
156	FT-IR, FT-Raman and computational study of (E)-N-carbamimidoyl-4-((4-methoxybenzylidene)amino)benzenesulfonamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 92, 84-90	4.4	30
155	Vibrational spectra and computational study of 3-amino-2-phenyl quinazolin-4(3H)-one. <i>Journal of Molecular Structure</i> , 2010 , 963, 137-144	3.4	30
154	Spectroscopic, DFT, molecular dynamics and molecular docking study of 1-butyl-2-(4-hydroxyphenyl)-4,5-dimethyl-imidazole 3-oxide. <i>Journal of Molecular Structure</i> , 2017 , 1134, 330-344	3.4	29
153	Vibrational spectroscopic analysis of cyanopyrazine-2-carboxamide derivatives and investigation of their reactive properties by DFT calculations and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2017 , 1131, 1-15	3.4	29
152	Experimental and computational analysis of 1-(4-chloro-3-nitrophenyl)-3-(3,4-dichlorophenyl)thiourea. <i>Journal of Molecular Structure</i> , 2020 , 1205, 127587	3.4	29
151	Detailed quantum mechanical, molecular docking, QSAR prediction, photovoltaic light harvesting efficiency analysis of benzil and its halogenated analogues. <i>Heliyon</i> , 2019 , 5, e02825	3.6	29
150	Infrared and Raman spectroscopic analyses and theoretical computation of 4-butyl-1-(4-hydroxyphenyl)-2-phenyl-3,5-pyrazolidinedione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 94, 101-9	4.4	28
149	Molecular dynamic simulations, ALIE surface, Fukui functions geometrical, molecular docking and vibrational spectra studies of tetra chloro p and m-xylene. <i>Journal of Molecular Structure</i> , 2018 , 1171, 253-267	3.4	27
148	FT-IR, FT-Raman and computational study of 1H-2,2-dimethyl-3H-phenothiazin-4[10H]-one. <i>Journal of Molecular Structure</i> , 2011 , 985, 316-322	3.4	27
147	Detailed spectra, electronic properties, qualitative non-covalent interaction analysis, solvatochromism, docking and molecular dynamics simulations in different solvent atmosphere of cenobamate. <i>Structural Chemistry</i> , 2020 , 31, 2475-2485	1.8	27
146	Single crystal XRD, DFT investigations and molecular docking study of 2-((1,5-dimethyl-3-oxo-2-phenyl-2,3-dihydro-1H-pyrazol-4-yl)amino)naphthalene-1,4-dione as a potential anti- cancer lead molecule. <i>Computational Biology and Chemistry</i> , 2019 , 78, 153-164	3.6	27

145	Synthesis, characterization and computational studies of semicarbazide derivative. <i>Journal of Molecular Liquids</i> , 2018 , 272, 481-495	6	27
144	Molecular conformational analysis, vibrational spectra, NBO analysis and first hyperpolarizability of (2E)-3-(3-chlorophenyl)prop-2-enoic anhydride based on density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 131, 471-83	4.4	26
143	Intricate spectroscopic profiling, light harvesting studies and other quantum mechanical properties of 3-phenyl-5-isooxazolone using experimental and computational strategies. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127461	3.4	26
142	Investigation of spectroscopic, reactive, transport and docking properties of 1-(3,4-dichlorophenyl)-3-[3-(trifluoromethyl)phenyl]thiourea (ANF-6): Combined experimental and computational study. <i>Journal of Molecular Structure</i> , 2017 , 1134, 668-680	3.4	25
141	FT-IR, FT-Raman, and computational calculations of 4-chloro-2-(3-chlorophenyl carbamoyl)phenyl acetate. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 2176-2186	2.3	25
140	Spectroscopic, quantum mechanical studies, ligand protein interactions and photovoltaic efficiency modeling of some bioactive benzothiazolinone acetamide analogs. <i>Chemical Papers</i> , 2020 , 74, 1957-1964	1.9	25
139	DFT and molecular docking studies of self-assembly of sulfone analogues and graphene. <i>Journal of Molecular Modeling</i> , 2020 , 26, 273	2	25
138	A complete computational and spectroscopic study of 2-bromo-1, 4-dichlorobenzene [A frequently used benzene derivative]. <i>Journal of Molecular Structure</i> , 2018 , 1151, 245-255	3.4	24
137	Concentration and pH dependent SERS spectra of sulfanilic acid sodium salt on colloidal silver particles. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 944-951	2.3	24
136	Structural study of letrozole and metronidazole and formation of self-assembly with graphene and fullerene with the enhancement of physical, chemical and biological activities. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 5509-5515	3.6	23
135	Modeling the conformational preference, spectroscopic properties, UV light harvesting efficiency, biological receptor inhibitory ability and other physico-chemical properties of five imidazole derivatives using quantum mechanical and molecular mechanics tools. <i>Journal of Molecular Liquids</i> , 2020 , 310, 112871	6	22
134	Spectroscopic characterization of 4-[2-(5-Ethylpyridin-2-yl)ethoxy]benzaldehyde oxime and investigation of its reactive properties by DFT calculations and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2017 , 1128, 245-256	3.4	22
133	Stability and reactivity study of bio-molecules brucine and colchicine towards electrophile and nucleophile attacks: Insight from DFT and MD simulations. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116192	6	22
132	Theoretical investigations on the molecular structure, vibrational spectra, HOMO-LUMO analyses and NBO study of 1-[(Cyclopropylmethoxy)methyl]-5-ethyl-6-(4-methylbenzyl)-1,2,3,4-tetrahydropyrimidine-2,4-dione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 638-46	4.4	21
131	Molecular conformational analysis, vibrational spectra, NBO analysis and first hyperpolarizability of (2E)-3-phenylprop-2-enoic anhydride based on density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 638-46	4.4	21
130	Molecular structure, spectroscopic, dielectric and thermal study, nonlinear optical properties, natural bond orbital, HOMO-LUMO and molecular docking analysis of (CCLO) (CHNF)2HO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 328-339	4.4	20
129	Spectroscopic (FT-IR, FT-Raman) investigations and quantum chemical calculations of 1,7,8,9-tetrachloro-10,10-dimethoxy-4-[3-[4-(3-methoxyphenyl)piperazin-1-yl]propyl]-4-azatricyclo[5.2.1.0(2,6)]dec-8-ene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 129, 438-50	4.4	20
128	Spectroscopic analysis of 8-hydroxyquinoline-5-sulphonic acid and investigation of its reactive properties by DFT and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2017 , 1150, 540-552	3.4	20

127	Spectroscopic investigation (FT-IR, FT-Raman and SERS), vibrational assignments, HOMO-LUMO analysis and molecular docking study of Opipramol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 547-59	4.4	19
126	Spectral characterization, thermochemical studies, periodic SAPT calculations and detailed quantum mechanical profiling various physico-chemical properties of 3,4-dichlorodiuron. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 228, 117580	4.4	18
125	FT-IR, molecular structure, HOMO-LUMO, MEP, NBO analysis and first order hyperpolarizability of Methyl 4,4'-difluoro-5-methoxy-1,1'-terphenyl-4-carboxylate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 133, 480-8	4.4	17
124	Combined spectroscopic, DFT, TD-DFT and MD study of newly synthesized thiourea derivative. <i>Journal of Molecular Structure</i> , 2018 , 1155, 184-195	3.4	16
123	Synthesis, XRD single crystal structure analysis, vibrational spectral analysis, molecular dynamics and molecular docking studies of 2-(3-methoxy-4-hydroxyphenyl) benzothiazole. <i>Journal of Molecular Structure</i> , 2017 , 1148, 282-292	3.4	16
122	Spectral analysis and DFT investigation of some benzopyran analogues and their self-assemblies with graphene. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113924	6	16
121	Theoretical investigation on the reactive and interaction properties of sorafenib (DFT, AIM, spectroscopic and Hirshfeld analysis, docking and dynamics simulation. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115652	6	16
120	Quantum Mechanical Studies of Three Aromatic Halogen-Substituted Bioactive Sulfonamidobenzoxazole Compounds with Potential Light Harvesting Properties. <i>Polycyclic Aromatic Compounds</i> , 2019 , 1-17	1.3	16
119	FT-IR, FT-Raman and molecular docking study of ethyl 4-(2-(4-oxo-3-phenethyl-3,4-dihydroquinazolin-2-ylthio)acetamido)benzoate. <i>Journal of Molecular Structure</i> , 2016 , 1111, 9-18	3.4	15
118	Spectroscopic investigation (FT-IR and FT-Raman), vibrational assignments, HOMO-LUMO, NBO, MEP analysis and molecular docking study of 2-[(4-chlorobenzyl)sulfanyl]-4-(2-methylpropyl)-6-(phenylsulfanyl)-pyrimidine-5-carbonitrile, a	4.4	15
117	FT-IR, FT-Raman spectroscopy and computational study of N-carbamimidoyl-4-[(E)-((2-hydroxyphenyl)methylidene)amino]benzenesulfonamide. <i>Journal of Molecular Structure</i> , 2011 , 992, 77-83	3.4	15
116	Spectroscopic investigation (FT-IR and FT-Raman), vibrational assignments, HOMO-LUMO analysis and molecular docking study of 1-hydroxy-4,5,8-tris(4-methoxyphenyl) anthraquinone. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 87, 110-121	3.9	14
115	Molecular structure, FT-IR, vibrational assignments, HOMO-LUMO, MEP, NBO analysis and molecular docking study of ethyl-6-(4-chlorophenyl)-4-(4-fluorophenyl)-2-oxocyclohex-3-ene-1-carboxylate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 73-84	4.4	14
114	Synthesis, spectroscopic analyses, chemical reactivity and molecular docking study and anti-tubercular activity of pyrazine and condensed oxadiazole derivatives. <i>Journal of Molecular Structure</i> , 2018 , 1164, 459-469	3.4	14
113	Synthesis, conformational, characterization and reactivity study of 1,7-bis(4-bromophenyl)heptane-1,7-dione. <i>Journal of Molecular Structure</i> , 2019 , 1175, 269-279	3.4	14
112	Vibrational Spectroscopic Investigations of 4-nitropyrocatechol. <i>Oriental Journal of Chemistry</i> , 2012 , 28, 937-941	0.8	14
111	Adsorption of adipic acid in Al/B-N/P nanocages: DFT investigations. <i>Journal of Molecular Modeling</i> , 2021 , 27, 113	2	14
110	DFT computational study towards investigating psychotropic drugs, promazine and trifluoperazine adsorption on graphene, fullerene and carbon cyclic ring nanoclusters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 246, 119012	4.4	14

109	Utilization of doped/undoped graphene quantum dots for ultrasensitive detection of duphaston, a SERS platform. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 244, 118865	4-4	14
108	New quinolone derivative: Spectroscopic characterization and reactivity study by DFT and MD approaches. <i>Journal of Molecular Structure</i> , 2017 , 1135, 1-14	3-4	13
107	Spectroscopic characterization of hydroxyquinoline derivatives with bromine and iodine atoms and theoretical investigation by DFT calculations, MD simulations and molecular docking studies. <i>Journal of Molecular Structure</i> , 2018 , 1167, 95-106	3-4	13
106	Synthesis, spectroscopic analyses (FT-IR and NMR), vibrational study, chemical reactivity and molecular docking study and anti-tubercular activity of condensed oxadiazole and pyrazine derivatives. <i>Journal of Molecular Structure</i> , 2018 , 1156, 657-674	3-4	13
105	Synthesis, crystal structure analysis, spectral investigations, DFT computations and molecular dynamics and docking study of 4-benzyl-5-oxomorpholine-3-carbamide, a potential bioactive agent. <i>Journal of Molecular Structure</i> , 2017 , 1134, 25-39	3-4	12
104	Spectral investigations, DFT computations and molecular docking studies of 1,7,8,9-tetrachloro-10,10-dimethoxy-4-[3-[4-(2-methylphenyl)piperazin-1-yl]propyl]-4-azatricyclo[5.2.1.0 ^{2,6}]dec-8-ene-3,5-dione. <i>Journal of Molecular Structure</i> , 2015 , 1098, 130-145	3-4	12
103	1-Alkyl-1-methylpiperazine-1,4-dium salts: Synthetic, acid-base, XRD-analytical, FT-IR, FT-Raman spectral and quantum chemical study. <i>Journal of Molecular Structure</i> , 2015 , 1094, 210-236	3-4	12
102	Spectroscopic (FT-IR, FT-Raman), first order hyperpolarizability, NBO analysis, HOMO and LUMO analysis of 1,7,8,9-tetrachloro-10,10-dimethoxy-4-[3-(4-phenylpiperazin-1-yl)propyl]-4-azatricyclo[5.2.1.0(2,6)]dec-8-ene-3,5-dione by density functional methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 244, 118865	4-4	12
101	Vibrational spectroscopic analysis, molecular dynamics simulations and molecular docking study of 5-nitro-2-phenoxy methyl benzimidazole. <i>Journal of Molecular Structure</i> , 2017 , 1129, 86-97	3-4	12
100	Reactive, spectroscopic and antimicrobial assessments of 5-[(4-methylphenyl)acetamido]-2-(4-tert-butylphenyl)benzoxazole: Combined experimental and computational study. <i>Journal of Molecular Structure</i> , 2017 , 1128, 694-706	3-4	12
99	Quantum chemical DFT study of 4-azatricyclo [5.2.2.0(2,6)] undecane-3,5,8-trione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1559-65	4-4	12
98	Spectroscopic analysis (FT-IR, FT-Raman and NMR) and molecular docking study of ethyl 2-(4-oxo-3-phenethyl-3,4-dihydroquinazolin-2-ylthio)-acetate. <i>Journal of Molecular Structure</i> , 2016 , 1119, 451-461	3-4	12
97	Insight into the reactive properties of newly synthesized 1,2,4-triazole derivative by combined experimental (FT-IR and FR-Raman) and theoretical (DFT and MD) study. <i>Journal of Molecular Structure</i> , 2017 , 1141, 542-550	3-4	11
96	Molecular conformational analysis, vibrational spectra, NBO, NLO analysis and molecular docking study of bis[(E)-anthranil-9-acrylic]anhydride based on density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 151, 350-9	4-4	11
95	Detailed Quantum Mechanical Studies on Three Bioactive Benzimidazole Derivatives and Their Raman Enhancement on Adsorption over Graphene Sheets. <i>Polycyclic Aromatic Compounds</i> , 2020 , 1-10	1-3	11
94	Detailed Electronic Structure, Physico-Chemical Properties, Excited State Properties, Virtual Bioactivity Screening and SERS Analysis of Three Guanine Based Antiviral Drugs Valacyclovir HCl Hydrate, Acyclovir and Ganciclovir. <i>Polycyclic Aromatic Compounds</i> , 2020 , 1-11	1-3	11
93	Spectroscopic characterization of 8-hydroxy-5-nitroquinoline and 5-chloro-8-hydroxy quinoline and investigation of its reactive properties by DFT calculations and molecular dynamics simulations. <i>Journal of Molecular Structure</i> , 2018 , 1164, 525-538	3-4	11
92	Study on the structure, vibrational analysis and molecular docking of fluorophenyl derivatives using FT-IR and density functional theory computations. <i>Journal of Molecular Structure</i> , 2018 , 1164, 172-179	3-4	11

91	Spectral analysis and detailed quantum mechanical investigation of some acetanilide analogues and their self-assemblies with graphene and fullerene. <i>Journal of Molecular Modeling</i> , 2020 , 26, 254	2	11
90	Newly synthesized dihydroquinazoline derivative from the aspect of combined spectroscopic and computational study. <i>Journal of Molecular Structure</i> , 2017 , 1134, 814-827	3-4	10
89	Molecular structure, FT-IR, first order hyperpolarizability, NBO analysis, HOMO and LUMO analysis of 2-(4-chlorophenyl)-2-oxoethyl 3-methylbenzoate by HF and density functional methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 327-36	4-4	10
88	Acid-base properties, FT-IR, FT-Raman spectroscopy and computational study of 1-(pyrid-4-yl)piperazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 121, 436-44	4-4	10
87	Two novel imidazole derivatives [Combined experimental and computational study. <i>Journal of Molecular Structure</i> , 2018 , 1173, 221-239	3-4	10
86	Modeling the DFT structural and reactivity studies of a pyrimidine -6-carboxylate derivative with reference to its wavefunction-dependent, MD simulations and evaluation for potential antimicrobial activity. <i>Journal of Molecular Structure</i> , 2021 , 1237, 130397	3-4	10
85	Towards the new heterocycle based molecule: Synthesis, characterization and reactivity study. <i>Journal of Molecular Structure</i> , 2017 , 1137, 589-605	3-4	9
84	Vibrational spectroscopic studies and molecular docking of 10,10-Dimethylantrone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 652-61	4-4	9
83	Vibrational spectra, molecular structure, NBO, HOMO-LUMO and first order hyperpolarizability analysis of 1,4-bis(4-formylphenyl)anthraquinone by density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 131, 225-34	4-4	9
82	Vibrational spectroscopic and computational study of 1,7,8,9-Tetrachloro-4-(4-bromo-butyl)-10,10-dimethoxy-4-aza-tricyclo[5.2.1.0(2,6)]dec-8-ene-3,5-dione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 121, 436-44	4-4	9
81	Vibrational spectroscopic investigations and molecular docking studies of biologically active 2-[4-(4-phenylbutanamido)phenyl]-5-ethylsulphonyl-benzoxazole. <i>Journal of Molecular Structure</i> , 2017 , 1148, 119-133	3-4	9
80	Concentration and solvent dependent SERS, DFT, MD simulations and molecular docking studies of a thioxothiazolidine derivative with antimicrobial properties. <i>Journal of Molecular Liquids</i> , 2021 , 329, 115582	6	9
79	DFT, SERS-concentration and solvent dependent and docking studies of a bioactive benzenesulfonamide derivative. <i>Journal of Molecular Structure</i> , 2021 , 1228, 129680	3-4	9
78	Conformational analysis and DFT investigations of two triazole derivatives and its halogenated substitution by using spectroscopy, AIM and Molecular docking. <i>Chemical Data Collections</i> , 2021 , 31, 100625	2-1	9
77	Vibrational spectroscopic studies and computational calculations of 5-chloro-2-(3-chlorophenylcarbamoyl)phenylacetate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 89, 308-16	4-4	8
76	Molecular conformational analysis, reactivity, vibrational spectral analysis and molecular dynamics and docking studies of 6-chloro-5-isopropylpyrimidine-2,4(1H,3H)-dione, a potential precursor to bioactive agent. <i>Journal of Molecular Structure</i> , 2017 , 1127, 427-436	3-4	8
75	Conformational analysis and quantum descriptors of two new imidazole derivatives by experimental, DFT, AIM, molecular docking studies and adsorption activity on graphene. <i>Heliyon</i> , 2020 , 6, e05182	3-6	8
74	DFT, molecular docking and SERS (concentration and solvent dependant) investigations of a methylisoxazole derivative with potential antimicrobial activity. <i>Journal of Molecular Structure</i> , 2021 , 1232, 130034	3-4	8

73	Structure, Spectral Features, Bioactivity and Light Harvesting Properties of Methyl and Dimethyl Anthracene: Experimental and First Principle Studies. <i>Polycyclic Aromatic Compounds</i> , 2019 , 1-15	1.3	8
72	Synthesis, vibrational spectroscopic investigations, molecular docking, antibacterial studies and molecular dynamics study of 5-[(4-nitrophenyl)acetamido]-2-(4-tert-butylphenyl)benzoxazole. <i>Journal of Molecular Structure</i> , 2017 , 1133, 557-573	3.4	7
71	Supramolecular architecture of 5-bromo-7-methoxy-1-methyl-1 H -benzoimidazole.3H 2 O: Synthesis, spectroscopic investigations, DFT computation, MD simulations and docking studies. <i>Journal of Molecular Structure</i> , 2017 , 1149, 602-612	3.4	7
70	Conformational, vibrational and DFT studies of a newly synthesized arylpiperazine-based drug and evaluation of its reactivity towards the human GABA receptor. <i>Journal of Molecular Structure</i> , 2017 , 1147, 266-280	3.4	7
69	Vibrational spectroscopic studies and computational study of methyl(2-methyl-4,6-dinitrophenylsulfanyl)ethanoate. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 829-838	2.3	7
68	Adsorption behavior and solvent effects of an adamantane-triazole derivative on metal clusters □ DFT simulation studies. <i>Journal of Molecular Liquids</i> , 2021 , 345, 118242	6	7
67	Evidence of cluster formation of pyrrole with mixed silver metal clusters, Ag _x -My (x=4,5, y=2/1 and M=Au/Ni/Cu) using DFT/SERS analysis. <i>Computational and Theoretical Chemistry</i> , 2022 , 1208, 113569	3	7
66	Cocrystals of hydrochlorothiazide with picolinamide, tetramethylpyrazine and piperazine: quantum mechanical studies, docking and modelling of the photovoltaic efficiency for DSSC. <i>Journal of Molecular Modeling</i> , 2020 , 26, 256	2	7
65	DFT computational study of trihalogenated aniline derivative's adsorption onto graphene/fullerene/fullerene-like nanocages, XY (X = Al, B, and Y = N, P). <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-14	3.6	7
64	Concentration dependent SERS, DFT and molecular docking studies of a ureido derivative with antitubercular properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 249, 119329	4.4	7
63	Structural and reactivity studies of pravadoline □ An ionic liquid, with reference to its wavefunction-relative properties using DFT and MD simulation. <i>Journal of Molecular Structure</i> , 2021 , 1245, 131074	3.4	7
62	Modeling the Conformational Preference, Spectral Analysis and Other Quantum Mechanical Studies on Three Bioactive Aminobenzoate Derivatives and Their SERS Active Graphene Complexes. <i>Polycyclic Aromatic Compounds</i> , 2020 , 1-11	1.3	6
61	Modeling the structural and reactivity properties of hydrazono methyl-4H-chromen-4-one derivatives-wavefunction-dependent properties, molecular docking, and dynamics simulation studies. <i>Journal of Molecular Modeling</i> , 2021 , 27, 186	2	6
60	Spectroscopic investigations, concentration dependent SERS, and molecular docking studies of a benzoic acid derivative. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 248, 119265	4.4	6
59	Reactivity properties and adsorption behavior of a triazole derivative □ DFT and MD simulation studies. <i>Journal of Molecular Liquids</i> , 2021 , 341, 117439	6	6
58	Evidence of cluster formation of croconic acid with Ag, Au and Cu cages, enhancement of electronic properties and Raman activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 264, 120233	4.4	6
57	Spectroscopic and reactive properties of a newly synthesized quinazoline derivative: Combined experimental, DFT, molecular dynamics and docking study. <i>Journal of Molecular Structure</i> , 2017 , 1134, 863-881	3.4	5
56	Understanding reactivity of a triazole derivative and its interaction with graphene and doped/undoped-coronene-a DFT study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 1-11	3.6	5

55	DFT and MD simulations and molecular docking of co-crystals of octafluoro-1,4-diiodobutane with phenazine and acridine. <i>Structural Chemistry</i> , 2020 , 31, 2525-2531	1.8	5
54	Investigation of the reactivity properties of a thiourea derivative with anticancer activity by DFT and MD simulations. <i>Journal of Molecular Modeling</i> , 2021 , 27, 217	2	5
53	Conformational analysis and quantum descriptors of two bifonazole derivatives of immense anti-tuber potential by using vibrational spectroscopy and molecular docking studies. <i>Structural Chemistry</i> , 2021 , 32, 859-867	1.8	5
52	Investigation of reactive and spectroscopic properties of oxobutanoic acid derivative: Combined spectroscopic, DFT, MD and docking study. <i>Journal of Molecular Structure</i> , 2017 , 1148, 266-275	3.4	4
51	Adsorption of a thione bioactive derivative over different silver/gold clusters - DFT investigations. <i>Computational and Theoretical Chemistry</i> , 2021 , 1207, 113497	2	4
50	Theoretical model study of adsorbed antimalarial-graphene dimers: doping effects, photophysical parameters, intermolecular interactions, edge adsorption, and SERS. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-12	3.6	4
49	Structural (SC-XRD), spectroscopic, DFT, MD investigations and molecular docking studies of a hydrazone derivative. <i>Chemical Data Collections</i> , 2020 , 30, 100588	2.1	4
48	Optoelectronic properties of the newly designed 1,3,5-triazine derivatives with isatin, chalcone and acridone moieties. <i>Computational and Theoretical Chemistry</i> , 2021 , 1197, 113160	2	4
47	Computational Study of Sorbic Acid Drug Adsorption onto Coronene/Fullerene/Fullerene-Like X12Y12 (X = Al, B and Y = N, P) Nanocages: DFT and Molecular Docking Investigations. <i>Journal of Cluster Science</i> , 1	3	4
46	Molecular docking, DFT analysis, and dynamics simulation of natural bioactive compounds targeting ACE2 and TMPRSS2 dual binding sites of spike protein of SARS CoV-2. <i>Journal of Molecular Liquids</i> , 2021 , 342, 116942	6	4
45	Theoretical investigation on the adsorption of melamine in Al12/B12-N12/P12 fullerene-like nanocages: a platform for ultrasensitive detection of melamine. <i>Chemical Papers</i> , 1	1.9	4
44	IR, Raman and DFT Calculations of 5,6-benzo-2-pyrone. <i>Oriental Journal of Chemistry</i> , 2012 , 28, 1071-1075.8		3
43	Investigation of reactive properties of an antiviral azatricyclo derivative & DFT, MD and docking simulations. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129937	3.4	3
42	Concentration-dependent SERS profile of olanzapine on silver and silver-gold metallic substrates. <i>Chemical Papers</i> , 2021 , 75, 6059-6072	1.9	3
41	DFT of 5-Fluoro-2-Oxo-1H-Pyrazine-3-Carboxamide (OPC) Adsorption, Spectroscopic, Solvent Effect, and SERS Analysis. <i>Journal of Molecular Liquids</i> , 2022 , 357, 119076	6	3
40	Theoretical Studies into the Spectral Characteristics, Biological Activity, and Photovoltaic Cell Efficiency of Four New Polycyclic Aromatic Chalcones. <i>Polycyclic Aromatic Compounds</i> , 2020 , 1-15	1.3	2
39	Adsorption properties of dacarbazine with graphene/fullerene/metal nanocages - Reactivity, spectroscopic and SERS analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 120677	4.4	2
38	Spectroscopic investigations, concentration dependent SERS, and molecular docking studies of a hydroxybenzylidene derivative. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-13	3.6	2

37	Conformational Analysis, Spectroscopic Insights, Chemical Descriptors, ELF, LOL and Molecular Docking Studies of Potential Pyrimidine Derivative with Biological Activities. <i>Polycyclic Aromatic Compounds</i> ,1-11	1.3	2
36	Investigation of reactive properties, adsorption on fullerene, DFT, molecular dynamics simulation of an anthracene derivative targeting dihydrofolate reductase and human dUTPase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-10	3.6	2
35	MD, DFT Investigations and Inhibition of the Novel SARS- CoV-2 Mainprotease in Three Cocrystals of Hydrochloro- thiazide. <i>Analytical Chemistry Letters</i> , 2021 , 11, 450-468	1	2
34	Spectroscopic and Theoretical Studies of Potential Anti-Inflammatory Polycyclic Aromatic Fluorophenyl Substituted Acyclic and Heterocyclic Analogues Synthesized from 4,4'-Difluorophenylchalcone. <i>Polycyclic Aromatic Compounds</i> , 2019 , 1-13	1.3	2
33	Spectroscopic and computational study of chromone derivatives with antitumor activity: detailed DFT, QAIM and docking investigations. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	2
32	DFT analysis of valproic acid adsorption onto Al/B-N/P nanocages with solvent effects.. <i>Journal of Molecular Modeling</i> , 2022 , 28, 98	2	2
31	A foundational theoretical AIE (E = N, P) adsorption and quinolone docking study: cage-quinolone pairs, optics and possible therapeutic and diagnostic applications.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-17	3.6	2
30	Vibrational Spectroscopic and First Hyperpolarizability Study of 1-chloro-2-methyl-2-phenylpropane. <i>Material Science Research India</i> , 2012 , 9, 159-164	1	1
29	Spectroscopic and DFT investigations of 8-hydroxy quinoline-5-sulfonic acid-5-chloro-8-hydroxyquinoline cocrystal. <i>Chemical Papers</i> , 2021 , 75, 3387-3399	1.9	1
28	Biological perspective of a triazine derivative with isatin/chalcone/acridone: DFT and docking investigations. <i>Structural Chemistry</i> , 2021 , 32, 19-26	1.8	1
27	Utilization of O/S-doped graphene nanoclusters for ultrasensitive detection of flurane derivatives-DFT investigations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-8	3.6	1
26	Genomic variation and point mutations analysis of Indian COVID-19 patient samples submitted in GISAID database. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100156		1
25	Surface enhanced Raman scattering investigation of pioglitazone on silver and silver-gold metal substrates [Experimental analysis and theoretical modeling. <i>Journal of Molecular Structure</i> , 2021 , 1244, 130992	3.4	1
24	Conformational, Reactivity Analysis, Wavefunction-Based Properties, Molecular Docking and Simulations of a Benzamide Derivative with Potential Antitumor Activity-DFT and MD Simulations. <i>Polycyclic Aromatic Compounds</i> ,1-17	1.3	1
23	Quantum Mechanical Investigation into the Adsorption Pattern of Clomipramine and Methotrimeprazine HCl with Graphene and Fullerene. <i>Polycyclic Aromatic Compounds</i> ,1-14	1.3	1
22	Spectroscopic, Solvation Effects and MD Simulation of an Adamantane-Carbohydrazide Derivative, a Potential Antiviral Agent. <i>Polycyclic Aromatic Compounds</i> ,1-15	1.3	1
21	Computational Study of Furosemide-Piperazine (FS-IPZ) and 2,3,5,6-tetramethylpyrazine (FS-TP) Co-Crystals. <i>Journal of Molecular Liquids</i> , 2022 , 119537	6	1
20	Adsorption of Diospyrin on the surface of CC/AlN/AlP/GaN Nanotubes: A DFT investigation. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119472	6	1

19	Understanding the mechanism of thioguanine's binding to Ag ₆ and bimetallic (Ag ₃ Au ₃ and Ag ₃ Au ₃) clusters. <i>Journal of Molecular Structure</i> , 2022 , 1265, 133415	3.4	1
18	Theoretical Insights into the Solvation, Electronic, Chemical Properties and Molecular Docking of Some Thiazole Derivatives. <i>Polycyclic Aromatic Compounds</i> , 1-11	1.3	0
17	DFT Conformational, Wavefunction Based Reactivity Analysis, Docking and MD Simulations of a Carboxamide Derivative with Potential Anticancer Activity. <i>Polycyclic Aromatic Compounds</i> , 1-12	1.3	0
16	Theoretical and experimental investigation of a pyrazole derivative- solvation effects, reactivity analysis and MD simulations. <i>Chemical Physics Letters</i> , 2022 , 793, 139469	2.5	0
15	Investigation of the electronic properties of solvents (water, benzene, methanol) using IEFPCM model, spectroscopic investigation with docking and MD simulations of a thiadiazole derivative with anti-tumor activities. <i>Journal of Molecular Liquids</i> , 2021 , 118061	6	0
14	DFT, docking, MD simulation, and vibrational spectra with SERS analysis of a benzoxazole derivative: an anti-cancerous drug. <i>Chemical Papers</i> , 2021 , 75, 4269-4284	1.9	0
13	Adsorption of Phenothiazine Derivatives on Graphene (DFT, Docking and MD Simulation). <i>Polycyclic Aromatic Compounds</i> , 1-12	1.3	0
12	Modeling the structure and reactivity landscapes of a pyrazole-ammonium ionic derivative using wavefunction-dependent characteristics and screening for potential anti-inflammatory activity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-13	3.6	0
11	New Phenoxazine-Based Organic Dyes with Various Acceptors for Dye-Sensitized Solar Cells: Synthesis, Characterization, DSSCs Fabrications and DFT Study. <i>Journal of Computational Biophysics and Chemistry</i> , 2021 , 20, 465-476		0
10	Computational Studies, GERS, Photovoltaic Modelling and Molecular Docking Studies of Diethylstilbestrol and Its Methyl Ether. <i>Polycyclic Aromatic Compounds</i> , 1-8	1.3	0
9	Insights into solvation, chemical reactivity, structural, vibrational and anti-hypertensive properties of a thiazolopyrimidine derivative by DFT and MD simulations. <i>Structural Chemistry</i> , 1	1.8	0
8	DFT and MD investigations of the biomolecules of phenothiazine derivatives: interactions with gold and water molecules and investigations in search of effective drug for SARS-CoV-2.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-12	3.6	0
7	Selective detection of F ⁻ ion and SO ₂ molecule: An experimental and DFT study. <i>Journal of Molecular Liquids</i> , 2022 , 359, 119329	6	0
6	DFT Study of 6-amino-3-(1-hydroxyethyl) pyridine-2,4-diol (AHP) Adsorption on Coronene. <i>Journal of Molecular Liquids</i> , 2022 , 119436	6	0
5	Computational Evaluation of Molecular Structures and Spectroscopic Properties of Tryptamine Derivatives on Its Binding With Novel Corona Virus Proteins. <i>Polycyclic Aromatic Compounds</i> , 1-10	1.3	
4	Electronic Structure, Solvation Effects and Wave Function Based Properties of a New Triazole Based Symmetric Chromene Derivative of Apigenin. <i>Polycyclic Aromatic Compounds</i> , 1-13	1.3	
3	Co-crystals of ethenzamide with 2-nitrobenzoic acid - Conformational analysis, MD simulations and DFT investigations. <i>Journal of the Indian Chemical Society</i> , 2022 , 99, 100439		
2	Spectroscopic analyses on an azatricyclo derivative by DFT with different solvents, reactivity analysis and MD simulations. <i>Journal of Molecular Structure</i> , 2022 , 1260, 132845	3.4	

- 1 Exploring the Detailed Spectroscopic Characteristics, Chemical and Biological Activity of Three Pyrone Derivatives Using Experimental and Theoretical Tools. *Polycyclic Aromatic Compounds*,1-10 1.3