Y Sheena Mary

List of Publications by Year in descending order

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204 papers 5,003 citations

38 h-index 197818 49 g-index

211 all docs

211 docs citations

211 times ranked

1878 citing authors

| # | Article | IF | Citations |
|----|---|--------------|-----------|
| 1 | FT-IR, FT-raman and SERS spectra of L-proline. Journal of the Iranian Chemical Society, 2009, 6, 138-144. | 2.2 | 90 |
| 2 | Synthesis and spectroscopic study of three new oxadiazole derivatives with detailed computational evaluation of their reactivity and pharmaceutical potential. Journal of Molecular Structure, 2018, 1173, 469-480. | 3 . 6 | 83 |
| 3 | FT-IR, FT-Raman, SERS and computational study of 5-ethylsulphonyl-2-(o-chlorobenzyl)benzoxazole. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 96, 617-625. | 3.9 | 77 |
| 4 | Two neoteric pyrazole compounds as potential anti-cancer agents: Synthesis, electronic structure, physico-chemical properties and docking analysis. Journal of Molecular Structure, 2019, 1181, 455-466. | 3 . 6 | 75 |
| 5 | Synthesis, spectral properties, chemical descriptors and light harvesting studies of a new bioactive azo imidazole compound. Journal of Molecular Structure, 2020, 1199, 127035. | 3.6 | 75 |
| 6 | Exploring the detailed spectroscopic characteristics, chemical and biological activity of two cyanopyrazine-2-carboxamide derivatives using experimental and theoretical tools. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117414. | 3.9 | 69 |
| 7 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 473-482. | 3.9 | 67 |
| 8 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 483-493. | 3.9 | 65 |
| 9 | Synthesis, characterization and biological investigation of glycine-based sulfonamide derivative and its complex: Vibration assignment, HOMO – LUMO analysis, MEP and molecular docking. Journal of Molecular Structure, 2019, 1181, 244-252. | 3.6 | 63 |
| 10 | Vibrational spectra, HOMO, LUMO, NBO, MEP analysis and molecular docking study of 2,2-diphenyl-4-(piperidin-1-yl)butanamide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 543-556. | 3.9 | 59 |
| 11 | Synthesis and spectroscopic study of two new pyrazole derivatives with detailed computational evaluation of their reactivity and pharmaceutical potential. Journal of Molecular Structure, 2019, 1181, 599-612. | 3.6 | 59 |
| 12 | 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. Journal of Molecular Structure, 2016, 1123, 375-383. | 3.6 | 58 |
| 13 | Vibrational spectroscopic studies and ab initio calculations of 5-nitro-2-(p-fluorophenyl)benzoxazole. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 566-571. | 3.9 | 57 |
| 14 | Vibrational spectroscopic, molecular structure, first hyperpolarizability and NBO studies of 4′-methylbiphenyl-2-carbonitrile. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 98, 91-99. | 3.9 | 56 |
| 15 | IR, Raman, SERS and computational study of 2-(benzylsulfanyl)-3,5-dinitrobenzoic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 113, 28-36. | 3.9 | 56 |
| 16 | Understanding reactivity of two newly synthetized imidazole derivatives by spectroscopic characterization and computational study. Journal of Molecular Structure, 2018, 1158, 176-196. | 3.6 | 56 |
| 17 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 81-92. | 3.9 | 53 |
| 18 | Molecular dynamic simulations, ALIE surface, Fukui functions geometrical, molecular docking and vibrational spectra studies of tetra chloro p and m-xylene. Journal of Molecular Structure, 2018, 1171, 253-267. | 3 . 6 | 53 |

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| 19 | Experimental and computational analysis of 1-(4-chloro-3-nitrophenyl)-3-(3,4-dichlorophenyl)thiourea. Journal of Molecular Structure, 2020, 1205, 127587. | 3.6 | 53 |
| 20 | Stability and reactivity study of bio-molecules brucine and colchicine towards electrophile and nucleophile attacks: Insight from DFT and MD simulations. Journal of Molecular Liquids, 2021, 335, 116192. | 4.9 | 53 |
| 21 | A complete computational and spectroscopic study of 2-bromo-1, 4-dichlorobenzene – A frequently used benzene derivative. Journal of Molecular Structure, 2018, 1151, 245-255. | 3.6 | 51 |
| 22 | 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. Journal of Molecular Structure, 2015, 1096, 1-14. | 3.6 | 50 |
| 23 | 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. Journal of Molecular Structure, 2016, 1113, 133-145. | 3.6 | 49 |
| 24 | Spectroscopic analysis and molecular docking of imidazole derivatives and investigation of its reactive properties by DFT and molecular dynamics simulations. Journal of Molecular Structure, 2018, 1158, 156-175. | 3.6 | 49 |
| 25 | Comprehensive quantum mechanical studies on three bioactive anastrozole based triazole analogues and their SERS active graphene complex. Journal of Molecular Structure, 2020, 1217, 128388. | 3.6 | 49 |
| 26 | 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. Journal of Molecular Structure, 2017, 1134, 668-680. | 3.6 | 48 |
| 27 | Synthesis, characterization and computational studies of semicarbazide derivative. Journal of Molecular Liquids, 2018, 272, 481-495. | 4.9 | 48 |
| 28 | Cocrystals of pyrazinamide with p-toluenesulfonic and ferulic acids: DFT investigations and molecular docking studies. Journal of Molecular Structure, 2019, 1175, 916-926. | 3.6 | 48 |
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| 30 | DFT and molecular docking investigations of oxicam derivatives. Heliyon, 2019, 5, e02175. | 3.2 | 47 |
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| 33 | Spectroscopic, single crystal XRD structure, DFT and molecular dynamics investigation of 1-(3-chloro-4-fluorophenyl)-3-[3-(trifluoromethyl)phenyl]thiourea. RSC Advances, 2016, 6, 111997-112015. | 3.6 | 46 |
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| 36 | Detailed spectra, electronic properties, qualitative non-covalent interaction analysis, solvatochromism, docking and molecular dynamics simulations in different solvent atmosphere of cenobamate. Structural Chemistry, 2020, 31, 2475-2485. | 2.0 | 45 |

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| 37 | Theoretical Studies on the Structure and Various Physico-Chemical and Biological Properties of a Terphenyl Derivative with Immense Anti-Protozoan Activity. Polycyclic Aromatic Compounds, 2021, 41, 825-840. | 2.6 | 44 |
| 38 | Modification of benzoxazole derivative by bromine-spectroscopic, antibacterial and reactivity study using experimental and theoretical procedures. Journal of Molecular Structure, 2017, 1141, 495-511. | 3.6 | 43 |
| 39 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 491-501. | 3.9 | 42 |
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| 46 | 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 anticancer lead molecule. Computational Biology and Chemistry, 2019, 78, 153-164. | 2.3 | 39 |
| 47 | Spectroscopic, quantum mechanical studies, ligand protein interactions and photovoltaic efficiency modeling of some bioactive benzothiazolinone acetamide analogs. Chemical Papers, 2020, 74, 1957-1964. | 2.2 | 39 |
| 48 | Vibrational spectroscopic studies and computational study of 4-fluoro-N-(2′-hydroxy-4′-nitrophenyl)phenylacetamide. Journal of Molecular Structure, 2011, 994, 223-231. | 3.6 | 38 |
| 49 | FT-IR, FT-Raman and computational study of (E)-N-carbamimidoyl-4-((4-methoxybenzylidene)amino)benzenesulfonamide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 92, 84-90. | 3.9 | 37 |
| 50 | FT-IR, FT-Raman, surface enhanced Raman scattering and computational study of 2-(p-fluorobenzyl)-6-nitrobenzoxazole. Journal of Molecular Structure, 2012, 1012, 22-30. | 3.6 | 37 |
| 51 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 973-983. | 3.9 | 37 |
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| 56 | Infrared spectrum, structural and optical properties and molecular docking study of 3-(4-fluorophenyl)-5-phenyl-4,5-dihydro-1H-pyrazole-1-carbaldehyde. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 529-538. | 3.9 | 36 |
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| 62 | DFT and molecular docking studies of self-assembly of sulfone analogues and graphene. Journal of Molecular Modeling, 2020, 26, 273. | 1.8 | 34 |
| 63 | 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. Journal of Molecular Liquids, 2020, 310, 112871. | 4.9 | 34 |
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| 66 | Vibrational spectra and computational study of 3-amino-2-phenyl quinazolin-4(3H)-one. Journal of Molecular Structure, 2010, 963, 137-144. | 3.6 | 32 |
| 67 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 471-483. | 3.9 | 32 |
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| 71 | Infrared and Raman spectroscopic analyses and theoretical computation of 4-butyl-1-(4-hydroxyphenyl)-2-phenyl-3,5-pyrazolidinedione. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 94, 101-109. | 3.9 | 29 |
| 72 | FT-IR, FT-Raman and computational study of 1H-2,2-dimethyl-3H-phenothiazin-4[10H]-one. Journal of Molecular Structure, 2011, 985, 316-322. | 3.6 | 28 |

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| 73 | Quantum Mechanical Studies of Three Aromatic Halogen-Substituted Bioactive Sulfonamidobenzoxazole Compounds with Potential Light Harvesting Properties. Polycyclic Aromatic Compounds, 2021, 41, 1563-1579. | 2.6 | 28 |
| 74 | DFT computational study towards investigating psychotropic drugs, promazine and trifluoperazine adsorption on graphene, fullerene and carbon cyclic ring nanoclusters. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119012. | 3.9 | 28 |
| 75 | 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. Journal of Molecular Liquids, 2021, 342, 116942. | 4.9 | 28 |
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| 77 | FTâ€IR, FTâ€Raman, and computational calculations of 4â€chloroâ€2â€(3â€chlorophenyl carbamoyl)phenyl aceta Journal of Raman Spectroscopy, 2009, 40, 2176-2186. | te. 2:5 | 27 |
| 78 | Molecular conformational analysis, vibrational spectra, NBO analysis and first hyperpolarizability of (2E)-3-phenylprop-2-enoic anhydride based on density functional theory calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 638-646. | 3.9 | 27 |
| 79 | 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 639-650. | 3.9 | 26 |
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| 83 | Adsorption of Diospyrin on the surface of CC/AlN/AlP/GaN Nanotubes: A DFT investigation. Journal of Molecular Liquids, 2022, 360, 119472. | 4.9 | 24 |
| 84 | 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[5.2.1.02,6]dec Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 129, 438-450. | - 8.9 ne-3,5 | 5-dione. |
| 85 | DFT, SERS-concentration and solvent dependent and docking studies of a bioactive benzenesulfonamide derivative. Journal of Molecular Structure, 2021, 1228, 129680. | 3.6 | 23 |
| 86 | Spectroscopic analysis of 8-hydroxyquinoline-5-sulphonic acid and investigation of its reactive properties by DFT and molecular dynamics simulations. Journal of Molecular Structure, 2017, 1150, 540-552. | 3.6 | 22 |
| 87 | Spectroscopic characterization of hydroxyquinoline derivatives with bromine and iodine atoms and theoretical investigation by DFT calculations, MD simulations and molecular docking studies. Journal of Molecular Structure, 2018, 1167, 95-106. | 3.6 | 22 |
| 88 | FT-IR, molecular structure, HOMOâ \in LUMO, MEP, NBO analysis and first order hyperpolarizability of Methyl 4,4â \in 3-difluoro-5â \in 2-methoxy-1,1â \in 2:3â \in 2,1â \in 3-terphenyl-4â \in 2-carboxylate. Spectrochimica Acta - Part A: and Biomolecular Spectroscopy, 2014, 133, 480-488. | M.ø lecula | r 21 |
| 89 | Investigation of the reactivity properties of a thiourea derivative with anticancer activity by DFT and MD simulations. Journal of Molecular Modeling, 2021, 27, 217. | 1.8 | 21 |
| 90 | Adsorption behavior and solvent effects of an adamantane-triazole derivative on metal clusters – DFT simulation studies. Journal of Molecular Liquids, 2022, 345, 118242. | 4.9 | 21 |

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| 91 | analysis of 1,7,8,9-tetrachloro-10,10-dimethoxy-4-[3-(4-phenylpiperazin-1-yl)propyl]-4-azatricyclo[5.2.1.02,6]dec-8-ene-3,5-di by density functional methods. Spectrochimica Acta - Part A: Molecular and Biomolecular | io n ø | 20 |
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| 99 | DFT study of 6-amino-3-(1-hydroxyethyl) pyridine-2,4-diol (AHP) adsorption on Coronene. Journal of Molecular Liquids, 2022, 360, 119436. | 4.9 | 20 |
| 100 | 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. Journal of Molecular Structure, 2018, 1156, 657-674. | 3.6 | 19 |
| 101 | Detailed Quantum Mechanical Studies on Three Bioactive Benzimidazole Derivatives and Their Raman Enhancement on Adsorption over Graphene Sheets. Polycyclic Aromatic Compounds, 2022, 42, 2581-2590. | 2.6 | 19 |
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| 104 | New quinolone derivative: Spectroscopic characterization and reactivity study by DFT and MD approaches. Journal of Molecular Structure, 2017, 1135, 1-14. | 3.6 | 18 |
| 105 | Synthesis, XRD single crystal structure analysis, vibrational spectral analysis, molecular dynamics and molecular docking studies of 2-(3-methoxy-4-hydroxyphenyl) benzothiazole. Journal of Molecular Structure, 2017, 1148, 282-292. | 3.6 | 18 |
| 106 | Synthesis, spectroscopic analyses, chemical reactivity and molecular docking study and anti-tubercular activity of pyrazine and condensed oxadiazole derivatives. Journal of Molecular Structure, 2018, 1164, 459-469. | 3.6 | 18 |
| 107 | Theoretical model study of adsorbed antimalarial-graphene dimers: doping effects, photophysical parameters, intermolecular interactions, edge adsorption, and SERS. Journal of Biomolecular Structure and Dynamics, 2022, 40, 13581-13592. | 3.5 | 18 |
| 108 | Adsorption of a thione bioactive derivative over different silver/gold clusters – DFT investigations. Computational and Theoretical Chemistry, 2022, 1207, 113497. | 2.5 | 18 |

| # | ARTICLE Spectroscopic investigation (FI-IR and FI-Raman), vibrational assignments, HOIVIOa€ LUIVIO, INBO, INEP | IF | Citations |
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| 109 | analysis and molecular docking study of 2-[(4-chlorobenzyl)sulfanyl]-4-(2-methylpropyl)-6-(phenylsulfanyl)-pyrimidine-5-carbonitrile, a potential chemother agent. Spectrochimica Acta - Part A: Molecular and Biomolecular | 3.9 | 17 |
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| 112 | 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. Journal of Cluste 2022, 33, 1809-1819. | r &લ ience, | 17 |
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| 115 | FT-IR, FT-Raman spectroscopy and computational study of | | |
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