Muthuraja Perumal

List of Publications by Year
in descending order

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17 papers	297 citations	933447 10 h-index	996975 15 g-index
17 all docs	17 docs citations	17 times ranked	166 citing authors

#	Article	IF	Citations
1	Hydrogen bonding interactions on molecular properties of pesticidal compound 4-nitrophthalic acid: experimental density functional theory computations, electron localized function, localized orbital locator analysis and molecular docking scrutiny. Spectroscopy Letters, 2022, 55, 362-372.	1.0	6
2	Analyzing integrated Ï€â€¦Ï€, C Hâ€¦Ï€ and hydrogen bonding interactions in N, N-Dimethyl-4-aminopyridinium benzilate. Journal of Molecular Structure, 2021, 1242, 130717.	3.6	3
3	Chlorine directed Câ€“Cl â€¦ Ï€ and Câ€“Hâ‹¯Cl interactions in acridinium 3,5-dichlorosalicylate: Synthesis, X-ray diffraction and theoretical analysis. Journal of Molecular Structure, 2020, 1220, 128759.	3.6	2
4	Bioactivity of a radical scavenger bis(pyrazolium p-toluenesulphonate) on ctDNA and certain microbes: a combined experimental and theoretical analysis. Toxicology Research, 2019, 8, 421-431.	2.1	6
5	Molecular properties, crystal structure, Hirshfeld surface analysis and computational calculations of a new third order NLO organic crystal, 2-aminopyridinium benzilate. Journal of Molecular Structure, 2019, 1181, 118-130.	3.6	34
6	Supramolecular interactions in itaconic acid-2-amino-4,6-dimethylpyrimidine molecular adduct: Physicochemical characterisation and quantum chemical calculations for the molecular adduct. Journal of Physics and Chemistry of Solids, 2019, 129, 284-292.	4.0	2
7	Structural, spectral, physiochemical, computational studies and pharmacological screening of a new organic salt: 2, 6-diaminopyridinium-2-nitrobenzoate. Journal of Molecular Structure, 2019, 1178, 692-701.	3.6	0
8	Hydrogen bonding interactions on 1H-1,2,3-triazole based crystals: Featuring experimental and theoretical analysis. Current Applied Physics, 2018, 18, 774-784.	2.4	15
9	Influence of intramolecular hydrogen bonding interaction on the molecular properties of N-p-tolyl-5-oxo pyrrolidine-3-carboxylic acid: A theoretical and experimental study. Chemical Physics Letters, 2018, 691, 114-121.	2.6	22
10	Growth and characterization of metal halide perovskite crystals: Benzyltributyl ammonium tetrachloro manganate(II) monohydrate. AIP Conference Proceedings, 2018, , .	0.4	0
11	Hydrogen bonded<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mi>R</mml:mi><mml:mn>2</mml:mn><mml:mn>2</mml:mn></mml:msubsup> set in inducing charge transfer mechanism in guanidinium-3,5-dinitrobenzoate: A combined experimental, theoretical and Hirshfeld surface study. Journal of Molecular Structure, 2017, 1137, 649-662.	3.6	42
12	Hydrogen bonding interactions and supramolecular assemblies in 2-amino guanidinium 4-methyl benzene sulphonate crystal structure: Hirshfeld surfaces and computational calculations. Journal of Molecular Structure, 2017, 1146, 723-734.	3.6	35
13	Theoretical and experimental evaluation of a new organic proton transfer crystal aminoguanidinium p-nitrobenzoate monohydrate for optical limiting applications. Journal of Physics and Chemistry of Solids, 2017, 111, 82-94.	4.0	31
14	Biological and spectral studies of O-Tolyl Biguanide: Experimental and theoretical approach. Journal of Molecular Structure, 2017, 1128, 290-299.	3.6	24
15	Single crystal X-ray diffraction and Hirshfeld surface analyses of supramolecular assemblies in certain hydrogen bonded heterocyclic organic crystals. Journal of Molecular Structure, 2016, 1122, 146-156.	3.6	35
16	Ligand based pharmacophoric modelling and docking of bioactive pyrazolium 3-nitrophthalate (P3NP) on Bacillus subtilis, Aspergillus fumigatus and Aspergillus niger â€" Computational and Hirshfeld surface analysis. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 352-365.	3.8	29
17	Biological applications and spectroscopic investigations of 4-nitrophenol-urea dimer: A DFT approach. Chemical Physics Letters, 2016, 645, 59-70.	2.6	11