

# Karthik Kumara

## List of Publications by Year in Descending Order

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

47  
papers

275  
citations

9  
h-index

13  
g-index

51  
ext. papers

416  
ext. citations

2.6  
avg, IF

3.85  
L-index

#	Paper	IF	Citations
47	Syntheses, structural characterization and evaluation of the anti-tubercular activity of copper (II) complexes containing 3-methoxysalicylaldehyde-4-methylthiosemicarbazone. <i>Journal of Molecular Structure</i> , <b>2022</b> , 1257, 132589	3.4	1
46	Structural-property relationship in halogen-bonded Schiff base derivative: Crystal structure, computational and SARS-CoV-2 docking studies. <i>Journal of Molecular Structure</i> , <b>2022</b> , 1265, 133409	3.4	0
45	Design, synthesis of coumarin tethered 1,2,3-triazoles analogues, evaluation of their antimicrobial and $\alpha$ -amylase inhibition activities. <i>Journal of Chemical Sciences</i> , <b>2021</b> , 133, 1	1.8	2
44	Fluorophore Tagged Mixed Ligand Copper(II) Complexes: Synthesis, Structural Characterization, Protein Binding, DNA Cleavage and Anticancer Activity. <i>ChemistrySelect</i> , <b>2021</b> , 6, 12666-12676	1.8	1
43	Coumarin-triazole hybrids: Design, microwave-assisted synthesis, crystal and molecular structure, theoretical and computational studies and screening for their anticancer potentials against PC-3 and DU-145. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1230, 129899	3.4	4
42	Square Planar trans-N2O2 Cu(II) Complex: Synthesis, Crystal Structure, Hirshfeld Surface, DFT, Antimicrobial and Docking Studies. <i>ChemistrySelect</i> , <b>2021</b> , 6, 6240-6255	1.8	4
41	8-Hydroxyquinoline derived p-halo N4-phenyl substituted thiosemicarbazones: Crystal structures, spectral characterization and in vitro cytotoxic studies of their Co(III), Ni(II) and Cu(II) complexes. <i>Bioorganic Chemistry</i> , <b>2021</b> , 112, 104962	5.1	9
40	Hydroxyacetone derived N4-methyl substituted thiosemicarbazone: Syntheses, crystal structures and spectroscopic characterization of later first-row transition metal complexes. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1224, 129055	3.4	3
39	Thermal, optical, etching, structural studies and theoretical calculations of [1-(2,5-Dichloro-benzenesulfonyl)-piperidin-4-yl]-(2,4-difluoro-phenyl)-methanone oxime. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1224, 129077	3.4	9
38	Synthesis, characterization, crystal structure, Hirshfeld surface analysis, antioxidant properties and DFT calculations of a novel pyrazole derivative: Ethyl 1-(2,4-dimethylphenyl)-3-methyl-5-phenyl-1H-pyrazole-4-carboxylate. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1226, 129350	3.4	8
37	Molecular structure, Hirshfeld surface and density functional theoretical analysis of a NLO active chalcone derivative single crystal: A quantum chemical approach. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1228, 129739	3.4	10
36	Environmentally benign synthesis of substituted pyrazoles as potent antioxidant agents, characterization and docking studies. <i>Journal of the Iranian Chemical Society</i> , <b>2021</b> , 18, 479-493	2	1
35	Design, synthesis, characterization, crystal structure, Hirshfeld surface analysis, DFT calculations, anticancer, angiogenic properties of new pyrazole carboxamide derivatives. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1235, 130271	3.4	4
34	Design, synthesis, characterization, and antioxidant activity studies of novel thienyl-pyrazoles. <i>Heliyon</i> , <b>2021</b> , 7, e07592	3.6	5
33	XRD/DFT/HSA-interactions in Cu(II)Cl/phen/ $\beta$ -diketonato complex: Physicochemical, solvatochromism, thermal and DNA-binding analysis. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1210, 128000	3.4	11
32	Structural elucidation, theoretical insights and thermal properties of three novel multicomponent molecular forms of gallic acid with hydroxypyridines. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1207, 127828	3.4	7
31	Design and synthesis of coumarin-triazole hybrids: biocompatible anti-diabetic agents, molecular docking and ADME screening. <i>Heliyon</i> , <b>2020</b> , 6, e05290	3.6	6

30	Synthesis, Characterization, Crystallographic Studies of 5-Acetyl-8-hydroxyquinoline and Their Chalcone Derivatives. <i>Asian Journal of Chemistry</i> , <b>2020</b> , 32, 1609-1613	0.4	
29	Synthesis, characterization and hydrogen bonding attributes of halogen bonded O-hydroxy Schiff bases: Crystal structure, Hirshfeld surface analysis and DFT studies. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1202, 127238	3.4	6
28	Crystal interactions, computational, spectral and thermal analysis of (E)-NV(thiophen-2-ylmethylene)isonicotinohydrazide as O-N-S-tridentate schiff base ligand. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1185, 290-299	3.4	1
27	Synthesis, crystal structure and 3D energy frameworks of ethyl 2-[5-nitro-2-oxopyridine-1(2H)-yl] acetate: Hirshfeld surface analysis and DFT calculations. <i>Chemical Data Collections</i> , <b>2019</b> , 20, 100195	2.1	9
26	Growth and Characterization of (E)-1-(5-Chlorothiophene-2-Yl)-3-(4-Dimethylamino)Phenyl)Prop-2-En-1-One, Novel NLO Single Crystal. <i>Materials Science Forum</i> , <b>2019</b> , 962, 3-9	0.4	1
25	Synthesis, characterization crystal and molecular structure studies of 5-(3-Methylbenzoyl)-4-methyl-1,3,4,5-tetrahydro-2H-1,5-benzodiazepin-2-one: Hirshfeld surface analysis and DFT calculations. <i>Chemical Data Collections</i> , <b>2019</b> , 24, 100292	2.1	1
24	Synthesis, Optical and Thermal Properties of 1-(4-Methoxyphenyl)-2-((5-(1-(Naphthalene-1-Yloxy)Ethyl)-[1,3,4]-Oxadiazol-2-Yl)Sulfanyl)Ethanoic - A Novel Heterocyclic Compound. <i>Materials Science Forum</i> , <b>2019</b> , 962, 10-16	0.4	
23	Design, structural, C <sub>H</sub> ⋯N <sub>2</sub> supramolecular interactions and computational investigations of Cd(N <sub>2</sub> ) <sub>2</sub> complexes based on an asymmetrical 1,2-diamine ligand: physicochemical and thermal analysis. <i>Journal of Coordination Chemistry</i> , <b>2019</b> , 72, 3285-3297	1.6	2
22	Synthesis and structural studies of 1-phenyl-1,3-butanedione copper(II) complexes as an excellent antimicrobial agent against methicillin-resistant Staphylococcus aureus. <i>Inorganica Chimica Acta</i> , <b>2019</b> , 484, 227-236	2.7	7
21	Synthesis, spectral characterization and X-ray crystal structure studies of 3-(benzo[d][1,3]dioxol-5-yl)-5-(3-methylthiophen-2-yl)-4,5-dihydro-1H-pyrazole-1-carboxamide: Hirshfeld surface, DFT and thermal analysis. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1161, 285-298	3.4	37
20	Synthesis, spectral and X-ray crystal structure of 3-(3-methoxyphenyl)-5-(3-methylthiophen-2-yl)-4,5-dihydro-1H-pyrazole-1-carboxamide: Hirshfeld surface, DFT calculations and thermo-optical studies. <i>Chemical Data Collections</i> , <b>2018</b> , 13-14, 40-59	2.1	5
19	Regular square planer bis-(4,4,4-trifluoro-1-(thiophen-2-yl)butane-1,3-dione)/copper(II) complex: Trans/cis-DFT isomerization, crystal structure, thermal, solvatochromism, hirshfeld surface and DNA-binding analysis. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1157, 69-77	3.4	16
18	Structural elucidation and Hirshfeld surface analysis of a novel pyrazole derivative: 3-(Benzo[d][1,3]dioxol-5-yl)-1-(3-chlorophenyl)-5-(2,4-dichlorophenyl)-4,5-dihydro-1H-pyrazole. <i>Chemical Data Collections</i> , <b>2018</b> , 15-16, 89-96	2.1	3
17	Synthesis, spectra and X-ray crystallography of dipyridin-2-ylmethanone oxime and its CuX <sub>2</sub> (oxime) <sub>2</sub> complexes: Thermal, Hirshfeld surface and DFT analysis. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1154, 619-625	3.4	12
16	Amberlyst-15 catalyzed synthesis of novel thiophene-pyrazoline derivatives: spectral and crystallographic characterization and anti-inflammatory and antimicrobial evaluation. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 6453-6468	2.8	11
15	Design and Amberlyst-15 mediated synthesis of novel thienyl-pyrazole carboxamides that potently inhibit Phospholipase A2 by binding to an allosteric site on the enzyme. <i>Bioorganic Chemistry</i> , <b>2018</b> , 80, 444-452	5.1	10
14	p-halo N4-phenyl substituted thiosemicarbazones: Crystal structure, supramolecular architecture, characterization and bio-assay of their Co(III) and Ni(II) complexes. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1156, 115-126	3.4	14
13	Crystal structure and Hirshfeld surface analysis of bis (2-(2-(1H-benzo[d]imidazol-2-yl)hydrazono)propan-1-ol) nickel(II) chloride. <i>Chemical Data Collections</i> , <b>2018</b> , 17-18, 251-262	2.1	0

12	Synthesis, crystal structure studies and Hirshfeld surface analysis of 6-chloro-7-hydroxy-4-methyl-2H-chromen-2-one. <i>Chemical Data Collections</i> , <b>2018</b> , 15-16, 134-142	2.1	3
11	Crystal structure and Hirshfeld surface analysis of ( E )-2-(1-(2-phenylhydrazono)ethyl)naphtholen-1-ol. <i>Chemical Data Collections</i> , <b>2017</b> , 7-8, 107-115	2.1	1
10	Synthesis of ethyl 5-(4-chlorophenyl)-3-methyl-1-phenyl-1H-pyrazole-4-carboxylate by an unusual protocol: Crystal and molecular structure, Hirshfeld surface analysis. <i>Chemical Data Collections</i> , <b>2017</b> , 9-10, 89-97	2.1	2
9	Crystal structure studies and Hirshfeld surface analysis of 5-(4-methoxyphenyl)-3-(thiophen-2-yl)-4,5-dihydro-1 H -pyrazole-1-carbothioamide. <i>Chemical Data Collections</i> , <b>2017</b> , 9-10, 251-262	2.1	13
8	Synthesis, characterization, thermal, optical, crystal structure and Hirshfeld surface analysis of 2-((Pyridin-4-yl)methyl)isoindoline-1,3-dione. <i>Chemical Data Collections</i> , <b>2017</b> , 9-10, 164-174	2.1	1
7	Synthesis, characterization, crystal structure and Hirshfeld surface analysis of 1-(4-ethoxyphenyl)-3-(4-methylphenyl) prop-2-en-1-one. <i>Chemical Data Collections</i> , <b>2017</b> , 9-10, 152-163	2.1	5
6	Crystal structure studies, Hirshfeld surface analysis and DFT calculations of novel 1-[5-(4-methoxy-phenyl)-[1,3,4]oxadiazol-2-yl]-piperazine derivatives. <i>Chemical Data Collections</i> , <b>2017</b> , 11-12, 40-58	2.1	7
5	[Dichlorido (2-(2-(1H-benzo[d]thiazol-2-yl)hydrazono)propan-1-ol) Cu(II)]: Crystal structure, Hirshfeld surface analysis and correlation of its ESI-MS behavior with [Dichlorido 3-(hydroxyimino)-2-butanone-2-(1H-benzo[d]thiazol-2-yl)hydrazone Cu(II)]. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1149, 357-366	3-4	9
4	Crystal structure of SAM-dependent methyltransferase from <i>Pyrococcus horikoshii</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2017</b> , 73, 706-712	1.1	1
3	Synthesis, crystal structure and Hirshfeld surface analysis of 5-(3, 4-dimethoxyphenyl)-3-(thiophen-2-yl)-4, 5-dihydro-1H-pyrazole-1-carboxamide. <i>Chemical Data Collections</i> , <b>2016</b> , 3-4, 26-35	2.1	3
2	Ethyl 2-(4-fluorobenzylidene)-3-oxobutanoate: Synthesis, crystal structure and antimicrobial activities. <i>Chemical Data Collections</i> , <b>2016</b> , 5-6, 68-78	2.1	1
1	A large margin approach for writer independent online handwriting classification. <i>Pattern Recognition Letters</i> , <b>2008</b> , 29, 933-937	4-7	9