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Research Interest : Catalysis, Synthetic inorganic chemistry, Single crystal XRD, Bioinorganic chemistry, Computational chemistry, Porphyrin compounds, Biochemistry, Metal organic frameworks

+ **Journal Publication Details:**

Sethupathi M., Jayamani A., Muthusankar G., Sakthivel P., Sekar K., Gandhi S., Sengottuvelan N., Gopu G., Selvaraju C. (2020) "**Colorimetric and fluorescence sensing of Zn2+ ion and its bio-imaging applications based on macrocyclic "tet a" derivative**", Journal of Photochemistry and Photobiology B: Biology pp(111854), DOI: 10.1016/j.jphotobiol.2020.111854 (Scopus)

Jayamani A., Nyamato G.S., Ojwach S.O. (2019) "**Ethylene oligomerization reactions catalyzed by homogeneous and silica immobilized N^O Fe(II) and Co(II) complexes**", Journal of Organometallic Chemistry pp(120987), DOI: 10.1016/j.jorganchem.2019.120987 (Scopus)

Jayamani A., Bellam R., Ojwach S.O., Gopu G., Sengottuvelan N. (2018) "**Copper(II) complexes of bidentate mixed ligands as artificial nucleases: Synthesis, crystal structure, characterization and evaluation of biological properties**", Polyhedron pp(138), DOI: 10.1016/j.poly.2018.09.011 (Scopus)

Jayamani A., Nagasubramanian S., Thamilarasan V., Ojwach S.O., Gopu G., Sengottuvelan N. (2018) "**In-situ nickel(II) complexes of 3-(dimethylamino)-1-propylamine based Schiff base ligands: Structural, electrochemical, biomolecular interaction and antimicrobial properties**", Inorganica Chimica Acta pp(791–799), DOI: 10.1016/j.ica.2018.07.018 (Scopus)

Jayamani A., Sethupathi M., Ojwach S.O., Sengottuvelan N. (2018) "**Investigation on biomolecular interactions of nickel(II) complexes with monoanionic bidentate ligands**", Journal of Molecular Structure pp(96–16), DOI: 10.1016/j.molstruc.2017.09.026 (Scopus)

Jayamani A., Sethupathi M., Ojwach S.O., Sengottuvelan N. (2017) "**Synthesis, characterization and biomolecular interactions of Cu(II) and Ni(II) complexes of acyclic Schiff base ligand**", Inorganic Chemistry Communications pp(144–149), DOI: 10.1016/j.inoche.2017.08.013 (Scopus)

Jayamani A., Sengottuvelan N., Kang S.K., Kim Y-I. (2015) "**Mono- and binuclear copper(II) complexes of bipyridine ligand: Structural, electrochemical and biological studies**", Polyhedron pp(203), DOI: 10.1016/j.poly.2015.05.042 (Scopus)

Thamilarasan V., Jayamani A., Sengottuvelan N. (2015) "**Synthesis, molecular structure, biological properties and molecular docking studies on MnII, CoII and ZnII complexes containing bipyridine–azide ligands**", European Journal of Medicinal Chemistry pp(266–278), DOI: 10.1016/j.ejmech.2014.09.073 (Scopus)

Jayamani A., Sengottuvelan N., Kang S.K., Kim Y.-I. (2014) "**Studies on nucleic acid/protein interaction, molecular docking and antimicrobial properties of mononuclear nickel(II) complexes of piperazine**

based Schiff base", Inorganic Chemistry Communications pp(48), DOI: 10.1016/j.inoche.2014.08.029 (Scopus)

Jayamani A., Sengottuvelan N., Chakkaravarthi G. (2014) "**Synthesis, structural, electrochemical, DNA interaction, antimicrobial and molecular docking studies on dimeric copper(II) complexes involving some potential bidentate ligands**", Polyhedron pp(764), DOI: 10.1016/j.poly.2014.05.076 (Scopus)

Nagasubramanian S., Jayamani A., Thamilarasan V., Aravindan G., Ganesan V., Sengottuvelan N.(2014) "**Hetero-metallic trigonal cage-shaped dimeric Ni3K core complex of L-proline ligand: Synthesis, structural, electrochemical and DNA binding and cleavage activities**", Journal of Chemical Sciences pp(771-781) DOI:10.1007/s12039-014-0617-9 (Scopus)

Jayamani A., Thamilarasan V., Ganesan V., Sengottuvelan N. (2013) "**Structural, electrochemical, DNA binding and cleavage properties of nickel(II) complex $[Ni(H_2biim)_2(H_2O)_2]^{2+}$ of 2,2'-biimidazole**", Bulletin-Korean Chemical Society pp(34), DOI:10.5012/bkcs.2013.34.12.3695 (Scopus)

Jayamani A., Thamilarasan V., Sengottuvelan N., Manisankar P., Kang S.K., Kim Y.-I., Ganesan V. (2013) "**Synthesis of mononuclear copper(II) complexes of acyclic Schiff's base ligands: Spectral, structural, electrochemical, antibacterial, DNA binding and cleavage activity**", Spectrochimica Acta Part A; Molecular and Biomolecular Spectroscopy pp(365), DOI: 10.1016/j.saa.2013.11.079 (Scopus)

Thamilarasan V., Jayamani A., Manisankar P., Kim Y-I., Sengottuvelan N. (2013) "**Green-emitting phosphorescent iridium(III) complex: Structural, photophysical and electrochemical properties**", Inorganica Chimica Acta pp(240-245), DOI: 10.1016/j.ica.2013.08.005 (Scopus)

Saravanan B., Jayamani A., Sengottuvelan N., Chakkaravarthi G., Manivannan V. (2013) "**Di-[mu]-hydroxido-[kappa]4O:O-di-[mu]-perchlorato-[kappa]4O:O'-bis-[(2,2'-bi-pyridine-kappa]2N,N')copper(II)]**", Acta Crystallographica Section E Structure Reports Online pp(69(11)), DOI:10.1107/S1600536813027852 (Scopus)

Saravanan B., Jayamani A., Sengottuvelan N., Chakkaravarthi G., Manivannan V. (2013) "**1,2-Bis(2-hydroxy-5-methylbenzylidene) hydrazine**", Acta Crystallographica Section E Structure Reports Online pp(69(9)), DOI:10.1107/S160053681302148X (Scopus)

Nagasubramanian S., Thamilarasan V., Jayamani A., Kang S.K., Kim Y.-I., Sengottuvelan N. (2013) "**Synthesis, characterization and crystal structure of dimeric copper(II) complex bearing mixed ligands acetylacetone and biimidazole: DNA binding and cleavage studies**", Bulletin- Korean Chemical Society pp(34(6)), DOI: 10.5012/bkcs.2013.34.6.1875 (Scopus)

Gunasekaran B., Jayamani A., Sengottuvelan N., Chakkaravarthi G. (2013) "**2-Hydroxy-3-methoxymethyl-5-methylbenzaldehyde**", Acta Crystallographica Section E Structure Reports Online pp(69(2)), DOI: 10.1107/S1600536813002845 (Scopus)

+ Awards

Best Young Faculty Award received on 29th December 2020 at Chennai from Sri Karunanandar Charitable Trust, Thiruvannamalai, Tamil Nadu, India