



Dr srinivasan krishnan

E-mail: gksrichem@gmail.com

Profile URL :

<https://vidwan.inflibnet.ac.in/profile/295218>

Orcid Id: 0000-0003-3473-1963

Phone: 09952455598, 09952455598

Address: Vellore ,Tamil Nadu,India - 632115

Expertise

Inorganic and Nuclear Chemistry

Our group is working on synthesis of new coordination complexes having structural and biological importance and new coordination complexes based single source molecular precursors for low temperature synthesis of various technologically and biologically important nano-sized metal/metal oxides.

Work experience

1. Thiruvalluvar Univeristy 2011 — Present

Associate Professor
Vellore

Education

1. Ph.D - 2009

Bharathiar University

2. M.Sc - 2003

Bharathiar University

3. B.Sc - 2001

Sacred Heart College (Autonomous), Tirupattur

Research Project

synthesis and characterisation of biologically active coordination complexes

Role: Principal Investigator
Year 2015, Amount 3700000

Publication

1. Enhanced dielectric properties of graphene and conjugated terpolymer-blended polyvinylidene difluoride

Narayanasamy Kavitha ., Ayyavu Chandramohan ., Krishnan Srinivasan ., Peethambaram Prabukanthan ., Kannaiyan Dinakaran .,
Bulletin of Materials Science, Volume 46, Year 2023

2. Effect of pendent alkyl group of ancillary ligand on molecular structures of new metal(II)-2, 4-dinitro benzoate complexes- spectral, structural and photoluminescence studies

Kathiresan A.;Raghavaiah P.;Srinivasan K.;Govindarajan S.
Journal of Molecular Structure, Volume 1283, Year 2023

3. PbS/graphene hybrid nanostructures coated glassy carbon electrode for the electrochemical sensing of copper ions in aqueous solution

T. Senthil ., R. Parkavi ., P. Senthil Kumar ., A. Chandramohan ., Gayathri Rangasamy ., K. Srinivasan ., K. Dinakaran .,
Food and Chemical Toxicology, Volume 168, Year 2022

4. A 1D silver(I) coordination polymer of a new hydrozone-hydrazide ligand: Spectral, structural, emission, and anti-bacterial properties and its application as a solid source precursor for silver oxide nanoparticles

Selvam P.;Antharjanam S.;Srinivasan K.;Premkumar T.
Journal of Physics and Chemistry of Solids, Volume 160, Year 2022

5. Graphene nanosheets dispersed hydrophobic and flexible aliphatic chain containing multifunctional poly (benzoxazines) nanocomposites for medium temperature proton exchange ...

Munusamy Kesava, Saravanan Velautham, Srinivasan Krishnan, Dinakaran Kannaiyan
International Journal of Energy Research, Volume , Year 2022, Pages

6. Optical detection of Copper and Cadmium from Aqueous solution using Arylidenemalanonitriles

Optical detection of Copper and Cadmium from Aqueous solution using Arylidenemalanonitriles, R. Parkavi, G. Madhan , K. Srinivasan , K. Sathishkumar , A. Chandramohan , K. Dinakaran
Asian Journal of Research in Chemistry, Volume 15, Year 2022, Pages 1

7. PbS/graphene hybrid nanostructures coated glassy carbon electrode for the electrochemical sensing of copper ions in aqueous solution

T.Senthil, R.Parkavi, P. Senthil Kumar A.Chandramohan, Gayathri Rangasamy, K.Srinivasan, K.Dinakaran
Food and Chemical Toxicology, Volume 168, Year 2022, Pages 113375

8. Microwave absorption and dielectric behavior of lead sulfide - graphene composite nanostructure embedded polyvinylidene fluoride thin films

Kannaiyan Dinakaran, Kavitha Narayanasamy, Senthil Theerthagiri, Prabukanthan Peethambaram, Srinivasan Krishnan & Debmalya Roy
International Journal of Polymer Analysis and Characterization , Volume 27, Year 2022, Pages 277-288

9. Supercapacitor and high k properties of CNT-PbS reinforced quinoxaline amine based polybenzoxazine composites

Selvaraj K.;Arumugam H.;Muthukaruppan A.;Kannaiyan S.K.;Krishnan S.;Peethambaram P.;Magaraphan R.;Kannaiyan D.
Soft Matter, Volume 18, Year 2022, Pages 8779-8791

10. A 1D silver(I) coordination polymer of a new hydrozone-hydrazide ligand: Spectral, structural, emission, and anti-bacterial properties and its application as a solid source precursor for silver oxide nanoparticles

Pitchai Selvam, Sudhadevi Antharjenam, Krishnan Srinivasan, Thathan Premkumar
Journal of physics and chemistry of solids, Volume 160, Year 2022, Pages 110368

11. Effect of alkyl substituent on molecular configuration in a Cu (II) complex: Synthesis of Cu and CuO nanoparticles using a single, solid-source precursor

Pitchai Selvam, Subramani Sathiyakumar, Krishnan Srinivasan, Thathan Premkumar
Journal of Molecular Structure, Volume 1224, Year 2021, Pages 129011

12. A first report on the synthesis of a complex of unsubstituted 1,2,3-triazolo[1,5-a]pyridine formed in situ via oxidative N-N bond coupling: Structural, photoluminescent, and biological properties of a new Cu(II) complex and its use as a single-source precursor for Cu and CuO nanoparticles

Sathiyakumar S.;Selvam P.;Radhika J.;Antharjanam S.;Hakkim F.L.;Srinivasan K.;Premkumar T.
Journal of Physics and Chemistry of Solids, Volume 148, Year 2021

13. Mechano-chemical syntheses of new cobalt(II) complexes of alkyl 2-(pyridine-2yl-methylene) hydrazinecarboxylates: Crystal structures, spectroscopic and photoluminescence properties

Subramani Sathiyakumar, Pitchai Selvam, Sudhadevi Antharjanam, Faruck Lukmanul Hakkim, Krishnan Srinivasan, William. T. A. Harrison

14. **A Copper(II) complex of a new hydrazone: A solid-state single source precursor for the preparation of both Cu and CuO nanoparticles**
Selvam P.;Sathiyakumar S.;Srinivasan K.;Premkumar T.
Journal of Molecular Structure, Volume 1177, Year 2019, Pages 469-475
15. **Synthesis and characterisation of double-layered octahedral coordination polymers built up from divalent metal ions, mixed carboxylate anions, and ethyl carbazate ligands**
Krishnan Srinivasan, Subbiyan Poornima, Subbaiah Govindarajan, William TA Harrison
Journal of Molecular Structure, Volume 1184, Year 2019, Pages 519-523
16. **A copper (II) complex of a new hydrazone: a solid-state single source precursor for the preparation of both Cu and CuO nanoparticles**
Pitchai Selvam, Subramani Sathiyakumar, Krishnan Srinivasan, Thathan Premkumar
Journal of Molecular Structure, Volume 1177, Year 2019, Pages 469-475
17. **Mechanochemical syntheses, crystal structures, and photo-luminescent properties of a new hydrazone and its nickel and cadmium complexes**
Subramani Sathiyakumar, Pitchai Selvam, Faruck Lukmanul Hakkim, Krishnan Srinivasan, William TA Harrison
Journal of Coordination Chemistry, Volume 71, Year 2018, Pages 3521-3533
18. **Mechanochemical syntheses, crystal structures, and photo-luminescent properties of a new hydrazone and its nickel and cadmium complexes**
Sathiyakumar S.;Selvam P.;Hakkim F.;Srinivasan K.;Harrison W.
Journal of Coordination Chemistry, Volume 71, Year 2018, Pages 3521-3533
19. **Synthesis, crystal structure, spectroscopic and thermal analysis of hydrazinium hydrogen-3, 5-pyrazoledicarboxylate monohydrate**
Thathan Premkumar, Krishnan Srinivasan, Rajendran Selvakumar, Nigam P Rath, Subbiah Govindarajan
Journal of Thermal Analysis and Calorimetry, Volume 125, Year 2016, Pages 1-9
20. **A family of double-layered coordination polymers containing Cd²⁺, N,O-chelating ligands, and bridging SCN⁻ and Cl⁻**
Krishnan Srinivasan, Ayyasami Kathiresan, Subbaiah Govindarajan, Joel T Aughey, William TA Harrison
Journal of Coordination Chemistry, Volume 67, Year 2014, Pages 857-869
21. **Syntheses and coordination isomerism of heteroleptic divalent-metal (M= Co, Zn) carbazate complexes**
Krishnan Srinivasan, Ayyasamy Kathiresan, William TA Harrison, Subbaiah Govindarajan
Journal of Coordination Chemistry, Volume 67, Year 2014, Pages 3324-3334
22. **Synthesis and characterization of cobalt(II), nickel(II), copper(II) and zinc(II) complexes of 2-nitrobenzoic acid with methyl carbazate as ancillary ligand. Crystal structure of the copper(II) complex**
Kathiresan A.;Srinivasan K.;Brinda S.;Nethaji M.;Govindarajan S.
Transition Metal Chemistry, Volume 37, Year 2012, Pages 393-397

23. A family of double-layered octahedral coordination networks built up from divalent metal ions, formate anions, and ethyl carbazate ligands: $M(CHO_2)_2(C_3H_8N_2O_2)$ ($M = Co, Zn, Cd$)

Krishnan Srinivasan, Subbaiah Govindarajan, William TA Harrison
Journal of Coordination Chemistry, Volume 64, Year 2011, Pages 3541-3550

24. Divalent metal complexes of formylhydrazine: Syntheses and crystal structures of $M(CH_4N_2O)_2(H_2O)_2 \cdot 2NO_3$ ($M = Zn, Co$)

Krishnan Srinivasan, Subbaiah Govindarajan, William TA Harrison
Inorganic Chemistry Communications, Volume 12, Year 2009, Pages 619-621

25. Tris (ethyl carbazate- κ^2N, O) nickel (II) dinitrate

Krishnan Srinivasan, Subbaiah Govindarajan, William TA Harrison
Acta Crystallographica Section E: Structure Reports Online, Volume E64, Year 2008, Pages m222-m223

26. Tris(ethyl carbazate- $\kappa^2 N, O$)nickel(II) dinitrate

Srinivasan K.;Govindarajan S.;Harrison W.T.A.
Acta Crystallographica Section E: Structure Reports Online, Volume 64, Year 2008

27. Redetermination of tris-(ethyl carbazate- $\kappa^2 N, O$)cobalt(II) dinitrate

Srinivasan K.;Govindarajan S.;Harrison W.T.A.
Acta Crystallographica Section E: Structure Reports Online, Volume 63, Year 2007

28. Catena-poly[[dihydraziniummanganese(II)]-di- μ -Sulfato- $\kappa^4 O:O'$] from synchrotron data

Srinivasan K.;Govindarajan S.;Harrison W.
Acta Crystallographica Section E: Structure Reports Online, Volume 63, Year 2007

29. Iron(II) hydrazinium sulfate

Srinivasan K.;Govindarajan S.;Harrison W.T.A.
Acta Crystallographica Section E: Structure Reports Online, Volume 63, Year 2007

30. Catena-poly[[dihydrazinecadmium(II)]-di- μ -sulfato- $\kappa^4 O: O'$]

Srinivasan K.;Govindarajan S.;Harrison W.
Acta Crystallographica Section E: Structure Reports Online, Volume 62, Year 2006

31. The first metal complex with the hydrazine dicarboxylate dianion: $Na_2(O_2CNH_2CO_2)(H_2O)_3$

Krishnan Srinivasan, Subbaiah Govindarajan, William TA Harrison
Inorganic Chemistry Communications, Volume 9, Year 2006, Pages 1117-1120

