

Research publications (SCI indexed) Rohith P John

2025

1. An efficient coumarin-based thiosemicarbazone probe for ratiometric fluorescent sensing of Zn and application in live cell imaging, Meenakshi, Abhishek Bera, Ashok Kumar, Mukesh Kumar, **Rohith P John**, *Spectrochim Acta, A, Mol. Biomol. Spectrosc.*, **2025**, 336 (5), 126006, DOI: 10.1016/j.saa.2025.126006 (Q1, IF: 4.3)

2022

2. A trinuclear copper (II) complex of naproxen-appended salicylhydrazide: Synthesis, crystal structure, DNA binding and molecular docking study, Prama Bhattacharjee, Mousam Roy, Avigyan Naskar, Hsieh-Chih Tsai, Abhrajyoti Ghosh, Niladri Patra, **Rohith P John**, *Appl. Organomet. Chem.* **32**, 2022 (1), e6459, DOI: 10.1002/aoc.6459 (Q1, IF: 4.105)

2021

3. A binuclear gadolinium complex of 8-hydroxyquinoline-2-carbaldehyde salicylhydrazide: structural characterisation and photoluminescence properties, Mukesh Kumar, Amit Kumar, Navneet Manav, A. K. Bhagi, **Rohith P. John**, *Res. Chem. Intermed.*, **2021**, 47, 5119-5133, DOI: 10.1007/s11164-021-04589-2

2020

4. A three-dimensional manganese (II) coordination polymer: synthesis, structure and catecholase activity, Prama Bhattacharjee, Partha Mitra, Prasenjit Sarkar, **Rohith P John**, *J. Coord. Chem.*, **2020**, 73, 360-374, DOI: 10.1080/00958972.2020.1740213 (**Q3**, IF: 0.665)
5. Structural characterisation and theoretical study of a dinuclear copper(II) complex bridged by *meta*-phenylenediiminophenolate moiety, Mukesh Kumar, Shyam Kishor, Amit Kumar, A. K. Bhagi, **Rohith P. John**, *J. Mol. Struct.* 1199, **2020**, 126996, DOI: 10.1016/j.molstruc.2019.126996 (**Q3**, IF: 2.120)

2018

6. A selective 'turn-on' chemosensor for detections of Al³⁺ in aqueous medium: Experimental and theoretical studies, Mukesh Kumar, Amit Kumar, Md. Sirajul Haque Faizi, Santosh Kumar, Mantu Kumar Singh, Sumanta Kumar Sahu, Shyam Kishor, **Rohith P. John**, *Sensor. Actuat. B Chem.* 260, **2018**, 888-899, DOI: 10.1016/j.snb.2018.01.098 (**Q1**, IF: 6.393).
7. Effect of hydrophobic modification on the properties of polymer-blended micro emulsion gels, Neetha V. Thampi, **Rohith P. John**, Keka Ojha, Udayabhanu G. Nair, *J. Surfact. Deterg.* 21, **2018**, 269-282, DOI: 10.1002/jsde.12017. (**Q2**, IF: 1.672).
8. Non-toxic Schiff bases as efficient corrosion inhibitors for mild steel in 1 M HCl: Electrochemical, AFM, FE-SEM and theoretical studies, Dharmendra Kumar Singh, Eno E Ebenso, Debashis Behera, Mantu Kumar Singh, G. Udayabhanu, **Rohith P. John**, *J. Mol. Liq.*, 250, January **2018**, 88-99, DOI: 10.1016/j.molliq.2017.11.132 (**Q1**, IF: 4.77).

2017

9. Co(II), Ni(II), Cu(II) and Zn(II) complexes of acenaphthoquinone 3-(4-benzylpiperidyl)thiosemicarbazone: Synthesis, structural electrochemical and antibacterial studies, Santosh Kumar, Arati Hansda, Angeera Chandra, Ashish Kumar, Mukesh Kumar, Maheswaran Sithambaresan, Md. Sirajul Haque Faizi, Vipin Kumar, **Rohith P. John**, *Polyhedron*, September, 134, **2017**, 11-21, DOI: 10.1016/j.poly.2017.05.055 (**Q2**, IF: 2.067).
10. Synthesis, characterization and antibacterial activity evaluation of trinuclear Ni(II) complexes with N-substituted salicylhydrazide ligands, Mantu Kumar Singh, Soumyabrata Roy, Arati Hansda, Santosh Kumar, Mukesh Kumar, Vipin Kumar, Sebastian C. Peter, **Rohith P. John**, *Polyhedron*, 126, **2017**, 100-110, DOI: 10.1016/j.poly.2017.01.019 (**Q2**, IF: 2.067).
11. A novel benzidine based Schiff base "turn-on" fluorescent chemosensor for selective recognition of Zn²⁺, Mukesh Kumar, Amit Kumar, Mantu Kumar Singh, Sumanta K. Sahu, **Rohith P. John**, *Sensor. Actuat. B Chem.* 241, **2017**, 1218-1223, DOI: 10.1016/j.snb.2016.10.008 (**Q1**, IF: 6.393).
12. Synthesis, crystal structure and luminescence properties of acenaphthene benzohydrazide based ligand and its zinc(II) complex, Mukesh Kumar, Soumyabrata Roy, Md. Serajul Haque Faizi, Santosh Kumar, Mantu Kumar Singh, Shyam Kishor, Sebastian C. Peter, **Rohith P.**

John, J. Mol. Struct. 1128, **2017**, 195-204, DOI: 10.1016/j.molstruc.2016.08.004 (**Q3**, IF: 2.120).

2016

13. A coordination driven self-assembled Pd₆L₈ nano-ball catalyses copper and phosphine- free Sonogashira coupling reactions in both homogeneous and heterogeneous formats, Subhashis Pradhan, Subhadip Dutta, **Rohith P. John**, *New J. Chem.*, 40, **2016**, 7140-7147, DOI: 10.1039/C5NJ03658E (**Q1**, IF: 3.069).
14. A double stranded metal–organic assembly accommodating a pair of water trimers in the host cavity and catalysing Glaser coupling, Subhashis Pradhan, Dohyun Moon, **Rohith P. John**, *Acta Cryst. B* 72, **2016**, 102-106, DOI: 10.1107/S2052520615020983 (**Q1**, IF: 6.732).
15. 4 (N, N-dimethylamino) benzaldehyde nicotinic hydrazone as corrosion inhibitor for mild steel in 1M HCl solution: An experimental and theoretical study, Dharmendra K Singh, Santosh Kumar, G Udayabhanu, **Rohith P. John**, *J. Mol. Liq.* 216, **2016**, 738-746, DOI: 10.1016/j.molliq.2016.02.012 (**Q1**, IF: 4.77).
16. A coordination driven supramolecular Pd₂L₄ self-assembly as heterogeneous catalyst for Buchwald–Hartwig amination reaction, Subhashis Pradhan, Arya Bhattacharyya, **Rohith P. John**, *Tetrahedron Lett.*, 57 (14), **2016**, 1532-1536, DOI: 10.1016/j.tetlet.2016.02.083 (**Q2**, IF: 2.379).
17. Self-assembled Pd₆L₄ cage and Pd₄L₄ square using hydrazide based ligands: synthesis, characterization and catalytic activity in Suzuki–Miyaura coupling reactions, Subhashis Pradhan, **Rohith P. John**, *RSC Advances*. 6 (15), **2016**, 12453-1246, DOI: 10.1039/C6RA00055J (**Q1**, IF: 3.049).

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18. A discrete self-assembled palladium nano-cage catalyses Suzuki–Miyaura coupling heterogeneously and Heck–Mizoroki coupling homogeneously, Subhashis Pradhan, **Rohith P. John**, *New J. Chem.* 39 (7), **2015**, 5759-5766, DOI: 10.1039/C5NJ01032B (**Q1**, IF: 3.069).

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19. 1, 5-Bis (2-hydroxyacetophenone)thiocarbohydrazone: A novel colorimetric and fluorescent dual-mode chemosensor for the recognition of fluoride, S.L. Ashok Kumar, M. Saravana Kumar, **Rohith P. John**, A. Sreekanth, *Mat. Sci. Eng C Bio S.*, 33 (5), **2013**, 2519-2525, DOI: 10.1016/j.msec.2013.02.012 (**Q1**, IF: 5.08).

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20. Formation of an unusual copper(II) complex from the degradation of a novel tricopper(II) carbohydrazone complex, E. Manoj, M. Nethaji, A. Punnoose, **Rohith P. John**, M.R.P. Kurup, *Inorg. Chem. Commun.* 12, **2009**, 952-955, DOI: 10.1016/j.inoche.2009.07.010 (**Q3**, IF: 1.795).

2008

21. Novel 48-membered hexanuclear and 60-membered icosanuclear manganese metallamacrocycles, Wenlong Liu, Kyunjin Lee, Mira Park, **Rohith P. John**, Dohyun Moon, Yang Zou, Xinfang Liu, Hyeong-Cheol Ri, Ghyung Hwa Kim and Myong Soo Lah, *Inorg. Chem.*, 47, **2008**, 8807-8812, DOI: 10.1021/ic800708z (**Q1**, IF: 4.850).
22. Steric Control of the Nuclearity of Metallamacrocycles: Formation of an 18-Membered Hexanuclear Gallium Metalladiazamacrocycle and a 48-Membered Hexadecanuclear Manganese Metalladiazamacrocycle, Kyunjin Lee, **Rohith P. John**, Mira Park, Dohyun Moon, Hyeong-Cheol Ri, Ghyung Hwa Kim, and Myoung Soo Lah, *Dalton Trans.*, **2008**, 131-136, DOI: 10.1039/B711686A (**Q1**, IF: 4.052).

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23. A Chiral Pentadecanuclear Metallamacrocycle with a Sextuple Twisted Möbius Topology, **Rohith P. John**, Mira Park, Dohyun Moon, Kyungjin Lee, Seunghee Hong, Yang Zou, Chang Seop Hong, and Myoung Soo Lah, *J. Am. Chem. Soc.*, **2007**, 14142- 14143, DOI: 10.1021/ja075945w (**Q1**, IF: 14.695).

24. Porous Metal-Organic Frameworks based on Metal-Organic Polyhedra with Nanosized Cavities as Supramolecular Building Blocks: Two-Fold Interpenetrating Primitive Cubic Networks of $[\text{Cu}_6\text{L}_8]^{12+}$ of Nanocages, Jaejoon Park, Seunghee Hong, Dohyun Moon, Mira Park, Kyungjin Lee, Sangmi Kang, Yang Zou, **Rohith P. John**, Ghyung Hwa Kim and Myoung Soo Lah, *Inorg. Chem.* **2007**, 46(24), 10208-10213, DOI: 10.1021/ic7013623 (**Q1**, **IF**: 4.850).
25. Two Octanuclear Gallium Metallamacrocycles of Topologically Different Connectivities, Mira Park, **Rohith P. John**, Dohyun Moon, Kyungjin Lee, Ghyung Hwa Kim, Myoung Soo Lah, *Dalton Trans.*, **2007** (46), 5412-18, DOI: 10.1039/B710531B, (**Q1**, **IF**: 4.052).
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27. Metalladiazamacrocycles: Metallamacrocycles as potential supramolecular host system for small organic guest molecules and supramolecular building blocks for metal organic frameworks, **Rohith P. John**, Dohyun Moon, Myoung Soo Lah, *Supramolecular chemistry*, **2007**, 19(4) 295-308, DOI: 10.1080/10610270701275083 (**Q2**, **IF**: 1.660).
28. Synthesis, spectral characterization and crystal structure of copper(II) complexes of 2-hydroxyacetophenone N(4)-phenyl semicarbazone, U.L. Kala, S. Suma, M.R. P. Kurup, Suja Krishnan, and **Rohith P. John**, *Polyhedron*, **2007**, 26, 1427-35, DOI: 10.1016/j.poly.2006.11.035 (**Q2**, **IF**: 2.067).

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29. Encapsulation of guest molecule in a strained form: An extended 36-membered dodecanuclear manganese metallamacrocycle that accommodates a cyclooctane in the S_4 symmetry conformation, **Rohith P. John**, Jaejoon Park, Dohyun Moon, Kyungjin Lee and Myoung Soo Lah, *Chem. Commun*, **2006**, 3699-3701, DOI: 10.1039/B607675K (**Q1**, **IF**: 6.164)
30. Face-driven corner-linked octahedral nano-cages: M_6L_8 cages formed by C_3 -symmetric triangular facial ligands linked via C_4 symmetric square tetratopic Pd^{II} ions at truncated octahedron corners Dohyun Moon, Sangmi Kang, Jaejoon Park, Kyungjae Lee, **Rohith P. John**, Hosik Won, Gi Hun Seong, Yang Sun Kim, Ghyun Hwa Kim, Hakjune Rhee and Myoung Soo Lah, *J. Am. Chem. Soc.*, **2006**, 128, 3530-1, DOI: 10.1021/ja060051h (**Q1**, **IF**: 14.695).
31. Steric control of a bridging ligand for high nuclearitymetallamacrocycle formation: A highly puckered 60-membered icosanuclearmetalladiazamacrocycle, Dohyun Moon, Kyungjae Lee, **Rohith P. John**, Ghyung Hwa Kim, ByoungJin Suh and Myoung Soo Lah, *Inorg. Chem.* **2006**, 45, 7991-3, DOI: 10.1021/ic060646d (**Q1**, **IF**: 4.850).
32. Tetra aza- copper(II) complex ions suspended in the cyanoargentate networks: X-ray structure and properties of a self-assembled $[\text{Cu}(3,2,3\text{-tet})][\text{Ag}_2(\text{CN})_4]$ having extraordinary short Ag-Ag distance, Chee-Hun Kwak, Rohith P. John, Joo-Eun Jee, HyungJin Kim, Jinkwon Kim, *Inorg. Chem. Commun* **2006**, 9, 533-36, DOI: 10.1016/j.inoche.2006.02.026 (**Q3**, **IF**: 1.795).
33. Di- μ -dioxo-bis($\{1\text{-}[\text{phenyl}(2\text{-pyridyl-}\kappa N)\text{-methylene}]\text{-2-(pyrrolidi-1-ylthiocarbonyl-}\kappa S)\text{-hydrazinato-}\kappa N^1\}$ oxovanadium(V)), A. Sreekanth, Hoong-Kun Fun, **Rohith P. John**, M. R. PrathapachandraKurup, SuchadaChantrapromma, *ActaCrystallographica E*, **2006**, 62, m1919-21, DOI: 10.1107/S1600536806026894 (**Q3**, **IF**: Nil).

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35. Chelating behavior of 2-hydroxyacetophenone N(4) substituted thiosemicarbazones: unusual formation of Mn(IV) complexes, structure, EPR and cyclic voltammetric studies, **Rohith P.**

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36. Bis(μ -phenyl 2-pyridyl ketone N^4, N^4 -butane-1,4-diylthiosemicarbazonato)bis[chlorocopper(II)] A. Sreekanth, V. Suni, **Rohith P. John**, MunirathinamNethaji and M. R. PrathapachandraKurup, *Acta Crystallographica*, **2005**, C61, m284-86, DOI: 10.1107/S010827010501142X (**Q3**, IF: 0.930)
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37. Novel 36-membered dodecanuclear manganese metalladiazamacrocyclic, **Rohith P. John**, Kyungjae Lee, Myoung Soo, Lah, *Chemical Communications* **2004**, 2660-1, DOI: 10.1039/B407668K (**Q1**, IF: 6.164)
38. New copper(II) complexes of 2-hydroxyacetophenone N(4)-substituted thiosemicarbazones and polypyridyl co-ligands: Structural electrochemical and antimicrobial studies, **Rohith P. John**, A. Sreekanth, V. Rajakannan, T. A. Ajith, M. R. P. Kurup, *Polyhedron*, 23, **2004**, 2549-59, DOI: 10.1016/j.poly.2004.09.004 (**Q2**, IF: 2.067)
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39. Spectral studies and structure of a 2-hydroxyacetophenone 3-hexamethyleneiminyl thiosemicarbazone copper(II) complex containing 1,10-phenanthroline **Rohith P. John**, A. Sreekanth, Maliyeckal R. PrathapachandraKurup, Anwar Usman, Ibrahim Abdul Razak, and Hoong-Kun Fun, *Spectrochim Acta, Part A, Molecular and Biomolecular Spectroscopy*, 59, **2003**, 1349-58, DOI: 10.1016/S1386-1425(02)00332-3 (**Q2**, IF: 2.931)
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