

Curriculum Vitae

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Raghavaiah Pallepogu
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 3. Date of Birth 01-07-1971
 4. Gender Male
 5. **Academic Qualification:**

	Degree	Year	Subjects	University / Institution
1	B. Sc.	1991	Chemistry Botany Zoology	Acharya Nagarjuna University Nagarjuna Nagar Andhra Pradesh
2	B. Ed.	Dec 1992	Biology & English	Acharya Nagarjuna University Nagarjuna Nagar Andhra Pradesh
3	M. Sc.	1995	Chemistry	University of Hyderabad Hyderabad

6. Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award:

Ph. D. Thesis title: "Supramolecular Assemblies of Amine-based Compounds in Combination with Different Counter Systems Ranging from Inorganic Anions, a Heteropoly Anion and Substituted Organic Acids"

Guide's Name: Professor B.R. Srinivasan & Professor K.S. Rane, Department of Chemistry, Goa University, Goa, India, awarded in the year July 2008.

(Thesis work was carried out at Professor Samar K. Das's research laboratory at School of Chemistry, University of Hyderabad, Hyderabad after completion of the coursework at Goa University)

7. Work experience (in chronological order):

S. No	Positions Held	Name of the Institute	From	To
1	Professor	Central University of Karnataka	March 2023	To date

2	Associate Professor	Central University of Karnataka	Feb' 2020	March 2023
3	Assistant Professor	Dr. Harisingh Gour University (A Central University), Sagar, (MP).	Dec' 2013	Feb' 2020
4.	Post-doctoral Fellow	Centre for Supramolecular Chemistry Research, Chemistry Department, University of Cape Town (UCT) South Africa under the supervision of Prof. Mino Caira.	June 2013	Nov' 2013
			(On Study Leave from UoH to carry out postdoctoral studies at UCT during this period)	
5	Scientific Officer	University of Hyderabad	Nov' 2010	Dec' 2013
6	Research Associate / Officer	UGC-Networking Resource Centre Project, School of Chemistry University of Hyderabad	Oct' 2008	Aug' 2010

8. Research Guidance:

S. No.	Name of the PhD Student	Year of the award	Thesis Title
1.	Dr. Risha Mishra	Oct' 2018	Design, Synthesis and Beneficiation of Supramolecular Compounds
2.	Dr. Naveena S. Veeranaiah	May 2025	Synthesis and Physicochemical Analysis of New Solid Forms of Active Pharmaceutical Ingredients and Computational Studies of Heterocyclic Molecules

- Have been guiding MSc projects as part of department's curriculum.

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant:

S. No.	Name of the Award	Awarding Agency	Year
1	Dr. D.S. Kothari Postdoctoral Fellowship	UGC	2008

10. Research Grants (Completed):

1. UGC Start-Up Research Grant (New Delhi), in the year **2014**; value: 6, 00, 000/-
2. DST SERB as PI during the period April 2016 to March **2018**; value: 11, 00, 000/-

11. Research Grants Ongoing:

1. ANRF PAIR (Partnerships for Accelerated Innovation and Research) grant; as Spoke Institute's Co-PI for period of five years starting from **2025**, where the University of Hyderabad is the Hub Institution.

12. Research Interests:

- Chemical Crystallography and Supramolecular beneficiation of targeted drug molecules (APIs) using Solid-state techniques and Crystal Engineering.
- Pharmaceutical Cocrystals.
- Inorganic Supramolecular Chemistry.
- Investigation of Symmetry Breaking in small molecules to understand the phenomenon of Supramolecular Chirality.

13. Publications (List of papers published in SCI Journals, for the last five years in year wise descending order). Refer Google Scholar for the complete list of publications:

<https://scholar.google.com/citations?hl=en&user=Zz32JJ0AAAAJ>

Author (s)	Title	Name of the Journal	Volume	Page	Year	DOI
N.S. Veeranagaiah, B. Borah, S.N. Dhuri, P. Raghavaiah and L.R. Chowhan	Design, synthesis, structural analysis, and DFT calculation insights into the molecular architecture of amino substituted 4H-chromene scaffolds	Journal of Molecular Structure (Elsevier)	1321	1402 29	2025	https://doi.org/10.1016/j.molstruc.2024.140229
S. Bharani, B. Ananda Rao, L. Raju Chowhan, P. Raghavaiah and M. S. Prasad	Asymmetric synthesis of spiro[benzofuran-pyrrolidine]-indolinedione via bifunctional urea catalyzed [3 + 2]-annulation	Organic & Biomolecular Chemistry (RSC)	23	914- 919	2025	https://doi.org/10.1039/D4OB01614A
N.S. Veeranagaiah, M. Rana, B. Swapna P. Raghavaiah and A.K. Nangia	Pharmaceutical Cocrystals and Salt of Ethionamide with Fluorobenzoic Acids for Improved Drug Delivery	Crystal Growth & Design (ACS)	24	9824 – 9837	2024	https://doi.org/10.1021/acs.cgd.4c01323
P. Naulakha, P. Kaushik, P. Raghavaiah and S. Supriya	The Reversible Gel to Gel Transition of a Phosphonocarboxylate Functionalized Strandberg-Type Polyoxometalate System	Chemistry Select (Wiley-VCH)	9	e2023 0255 2	2024	https://doi.org/10.1002/slct.202302552
S.K. Patel, A.A. Deshmukh, L. Kahar, P. Raghavaiah and V.K. Singh	Chiral metal–dithiocarbamate complexes with pendant phenolic groups: synthesis, crystallographic, photophysical and in silico study	New Journal of Chemistry (RSC)	48	1747 2- 1748 4	2024	https://doi.org/10.1039/D4NJ03057E
A. Kudlu, D.K Das, R. Bakthavatsalam, J. Sam, S. Ray, p. Mondal, S. Dutta, V. R. Hathwar, P. Raghavaiah, and J. Kundu	Strong Dopant–Dopant Electronic Coupling in Emissive Codoped Two Dimensional Metal Halide Hybrid	The Journal of Physical Chemistry Letters (ACS)	14, 21	4933 – 4940	2023	https://doi.org/10.1021/acs.jpclett.3c00902
J. H. Marayathungal, D.K. Das, R. Bakthavatsalam, J. Sam, V.R. Hathwar, P. Raghavaiah, S. Dutta, and J. Kundu	Mn ²⁺ -Activated Zero-Dimensional Metal (Cd, Zn) Halide Hybrids with Near-Unity PLQY and Zero Thermal Quenching	The Journal of Physical Chemistry C (ACS)	127	8618 – 8630	2023	https://doi.org/10.1021/acs.jpcc.2c08264
D.K. Das, R. Bakthavatsalam, V. R. Hathwar, P. Raghavaiah, and J. Kundu	Intrinsic vs. extrinsic STE emission enhancement in ns ² ion doped metal (Cd, In) halide hybrids.	Journal of Materials Chemistry C (RSC)	11	3855 – 3864	2023	https://doi.org/10.1039/D2TC04361K
M.R. Manne, R. R Panicker, K. Ramakrishnan, H.M. K. Hareendran, S.K. Pal, S. Kumar, P. Raghavaiah, R. Desikan, and A. Sivaramakrishna	Synthesis and Biological Evaluation of a Series of Quinoline-Based Quinazolinones and Carbamic Anhydride Derivatives.	ChemistrySelect (Wiley-VCH)	8	e2022 0450 8	2023	https://doi.org/10.1002/slct.202204508
B. Borah, N. S. Veeranagaiah, S. Sharma, M. Patat, M. S. Prasad, P. Raghavaiah and L. R. Chowhan	Stereoselective synthesis of CF ₃ -containing spirocyclic-oxindoles using N-2,2,2- trifluoroethylisatin ketimines: an update.	RSC Advances	13	7063 – 7075	2023	10.1039/D3RA00017F

A. Kathiresan, P. Raghavaiah, K. Srinivasan, and S. Govindarajan	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.	Journal of Molecular Structure (Elsevier)	1283	1352 75	2023	https://doi.org/10.1016/j.molstruc.2023.135275
S. K. Patel, K. Kolte, C. J. Savani, P. Raghavaiah, D. Dave, A.A. Isab, D. Mistry, D. Suthar, and V. K. Singh	New series of MII-dithiocarbamate complexes (M = CuII, NiII and ZnII) holding pendant N,O-Schiff base moieties: Synthesis, characterization, photophysical, crystallographic, anti-microbial and DFT study.	Inorganica Chimica Acta (Elsevier)	543	1211 39	2022	https://doi.org/10.1016/j.ica.2022.121139
D.K. Das, R. Bakthavatsalam, V. Anilkumar, B.P Mali, M.S. Ahmed, S.S. K. Raavi, P. Raghavaiah, and J. Kundu	Controlled Modulation of the Structure and Luminescence Properties of Zero-Dimensional Manganese Halide Hybrids through Structure-Directing Metal-Ion (Cd ²⁺ and Zn ²⁺) Centers.	Inorganic Chemistry (ACS)	61, 13	5363 – 5372	2022	https://doi.org/10.1021/acs.inorgchem.2c00160
A. Syed, H. Renuka, A. Mohitkar, P. Raghavaiah, M. S. K. Challa, S. Goel and S. Jayanty	Photophysical, electrochemical properties and flexible organic solar cell application of 7,7-bis(1-cyclopropyl carbonyl piperazino)-8,8 dicyanoquinodimethane.	Materials Advances (RSC)	3	3151 – 3164	2022	10.1039/D1MA00778E
P. Nagarasu, A. Kundu, V. Thiruvengadam, P. Raghavaiah, S.P. Anthony and V. Madhu	Investigating the structure–fluorescence properties of tetraphenylethylene fused imidazole AIEgens: reversible mechanofluorochromism and polymer matrix controlled fluorescence tuning.	CrystEngComm (RSC)	23	5403 – 5410	2021	https://doi.org/10.1039/D1CE00561H
B.R. Srinivasan, K.T. Dhavskar and P. Raghavaiah	Structural characterization of catena-[bis(μ-4-nitrobenzoato)-diaqua-calcium 4,4'-bipyridine] and catena-[bis(μ-4-nitrobenzoato)-diaqua-calcium 1H-1,2,4-triazole].	Indian Journal of Chemistry A (CSIR-NIScPR journals)	60	785- 796	2021	http://or.niscpr.res.in
E. V. Goud, A.S.V. Anand, P. Raghavaiah, C.V.S. Brahmmananda Rao, S. Nagarajan and A. Sivaramakrishna	Unexpected Coordination Modes of Bisphosphoramides with Lanthanum(III) and Thorium(IV) Salts: Synthesis, Structural Characterization, Stability, and Extraction Studies.	ChemistrySelect (Wiley-VCH)	6	2085 – 2093	2021	https://doi.org/10.1002/slct.202004516

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