Dr. KRISHNA MURTHY POTLA

Assistant Professor

Department of Chemistry

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Biography

I have received Ph.D. in Analytical and Computational Chemistry from Sri Venkateswara University, Tirupati in 2014. I have qualified in **S.E.T.** conducted by Government of Andhra Pradesh in 2012. After receiving my PhD, I worked as Research Chemist in R & D at TCG Life Sciences, Kolkata for 1.1 years. Later, I moved to Bapatla Engineering College, Bapatla and have been working as an Assistant Professor since 2015. During this tenure as an Assistant Professor, I have completed one UGC-MRP project, published 33 articles, 1 Indian & 4 Australian patents and organized one national seminar and one international seminar in association with RSC, London. In total, I have 39 research papers to my swansong in Web of science and Scopus index journal. Moreover, I have overall 11 years of research experience and 6 years of teaching experience.

My research area is Crystallography and Computational Chemistry. My research objective is to find solutions for the industrial problems through applying crystallographic principles and computational chemistry.

Awards

- Received "YOUNG SCIENTIST AWARD" from Andhra Pradesh Akademi of Sciences (APAS), A.P., INDIA in 2020.

Research Projects (Completed/submitted)

- **Research Project(s): Title:** Scaffolds, library synthesis of [4.5/5.6] novel anticancer spiro compounds: a study of theoretical, docking and crystallography applications.
  Funding agency: UGC, **Cost:** 1,60,000/-, **Status:** Completed, Year: 2017-18.
- **Title:** Design and synthesis of cocrystals/satls of anticancer drugs to improve physicochemical and pharmacokinetic properties: crystal engineering approach, **Funding agency:** DST/SERB,
  Scheme: Teachers Associateship for Research Excellence, **Status:** Accepted for Evaluation.

Honors

- Honored as **Associate Fellow of AP Academi of Sciences**, A.P., INDIA in 2020.
- **American Chemical Society:** Member, Membership Number: 31976875.
- **Royal Society of Chemistry**: Elected as Committee Member for Royal Society of Chemistry (London, UK) – Local Section Deccan (India). AMRSC, Membership Number: 671998.

Reviewer for ACS OMEGA.
Reviewer for Journal of Molecular Structure
Reviewer for Journal of Non-Crystalline solids Elsevier.
Reviewer for ChemistrySelect, Wiley Online Library.
Reviewer for Crystal Research & Technology
Reviewer for Colombian Journal of Chemistry.
Reviewer for Acta Chimica Slovenica.

Selected Publications

1. Nuthalapati Poojith, **Krishna Murthy Potla***, Francisco A. P. Osório, Clodoaldo Valverde, Suneetha Vankayalapati, P.A. Suchetan, M. Raja, Y-shaped potential third order nonlinear optical material - 3-(2-amino-2-oxoethyl)-5-methylhexanoic acid: An analysis of structural, spectroscopic and docking studies, ***New Journal of Chemistry***, New Journal of Chemistry (RSC publication) 44 (2020) 18185. DOI: 10.1039/D0NJ02658A. (IF: 3.591).

2. Nuthalapati Poojith, Nannapaneni Usha Rani, **Krishna Murthy Potla***, J. John Rose, P.A. Suchetan, Renjith Raveendran Pillai, Suneetha Vankayalapati, An analysis of structural, spectroscopic, quantum chemical and In silico studies of ethyl 3-[(pyridin-2-yl)amino]propanoate: A potential thrombin inhibitor, ***Journal of Molecular Structure***, 1226 (2021) 129378. (IF: 3.196).

3. Ravindra M Hegde, Richelle M Rego, **Krishna Murthy Potla**, Mahaveer D Kurkuri, Bio-inspired materials for defluoridation of water: A review, Chemosphere 253 (2020) 126657. (IF: 7.086).

4. **P. Krishna Murthy***, Clodoaldo Valverde, V. Suneetha, Stevan Armaković, Sanja J. Armaković, N. Usha Rani, N. Venkatasubba Naidu, An analysis of structural and spectroscopic signatures, the reactivity study of synthetized 4,6-dichloro-2-(methylsulfonyl)pyrimidine: A potential third-order nonlinear optical material, ***Journal of Molecular Structure,*** 1186 (2019) 263-275. (IF: 3.196).

5. S.G. Prasanna Kumar, R. Harikrishna, Nagaraju Kottam, **P. Krishna Muthy**, C. Manjunath, R. Preetham, C. Sivakumara, Tiju Thomos, Understanding the photoluminescence behaviour in nano $CaZrO_3:Eu^{+3}$ pigments by Judd-Ofelt intensity parameters, ***Dyes and Pigments***, 150 (2018) 306-314. (IF: 4.889).