

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 SLET 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 27 articles and organized one national seminar and one international seminar in association with RSC, London. In total, I have 33 research papers to my swansong in Web of science and Scopus index journal. Moreover, I have overall 11 years of research experience and 4.5 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 & Honors

- ★ Research Project(s): Scaffolds, library synthesis of [4.5/5.6] novel anticancer spiro compounds: a study of theoretical, docking and crystallography applications.

Funding agency: UGC, Cost: 1.6 Lacks, Status: Completed, Year: 2017-18.

- ★ 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. 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: 5.778).
2. **Krishna Murthy Potla***, Nuthalapati Poojith, Francisco A.P. Osorio, Clodoaldo Valverde, Sampath Chinnam, P.A. Suchetan, Suneetha Vankayalapati, An analysis of spectroscopic, computational and biological activity studies of L-shaped sulfamoylbenzoic acid derivatives: A third order nonlinear optical material, *Journal of Molecular Structure* 1210 (2020) 128070. (IF: 2.463).
3. Ch. Kavitha, K. Narendra, A. Ratnakar, Nuthalapati Poojith, C. Sampath, Subrata Banik, P.A. Suchetan, **P. Krishna Murthy***, Nuthalapati Venkatasubba Naidu, An analysis of structural, spectroscopic signatures, reactivity and anti-bacterial study of synthesized 4-chloro-3-sulfamoylbenzoic acid, *Journal of Molecular Structure* 1202 (2020) 127176. (IF: 2.463).
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 synthesized 4,6-dichloro-2-(methylsulfonyl)pyrimidine: A potential third-order nonlinear optical material, *Journal of Molecular Structure* 1186 (2019) 263-275. (IF: 2.463).
5. S.G. Prasanna Kumar, R. Harikrishna, Nagaraju Kottam, **P. Krishna Murthy**, C. Manjunath, R. Preetham, C. Sivakumara, Tiju Thomas, Understanding the photoluminescence behaviour in nano $\text{CaZrO}_3\text{:Eu}^{+3}$ pigments by Judd-Ofelt intensity parameters, *Dyes and Pigments*, 150 (2018) 306-314. (IF: 4.613).
6. Ch. Prasad, **P. Krishna Murthy**, R. Hari Krishna, R. Sreenivasa Rao, V. Suneetha, P. Venkateswarlu, Bioinspired green synthesis of RGO/ Fe_3O_4 magnetic nanoparticles using *Murraya koenigii* leaves extract and its application for removal of Pb(II) from aqueous solution, *Journal of Environmental Chemical Engineering*, 5 (2017) 4374-4380. (IF: 4.3).