

Dr. Gembali Raju



Designation : Assistant Professor
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Contact at : Department of Chemistry,
 Siddhartha Academy of Higher Education (Deemed to be University), VR Siddhartha School of Engineering,
 Vijayawada, Andhra Pradesh - 520007.

Education

Ph. D (Organometallic Chemistry)

2019, Indian Institute of Technology, Hyderabad.

M. Sc. (Chemical Sciences)

2012, Pondicherry Central University, Pondicherry.

B. Sc. (Mathematics, Physics and Chemistry)

2010, Rajah R.S.R.K Ranga Rao College, Bobbili.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
14-May,2026 To Till Date	Assistant Professor	Siddhartha Academy of Higher Education, Vijayawada, Andhra Pradesh, India.	Teaching and Research
Nov-19, 2025 To 13-May-2026	Associate Lecturer	Dhanekula Institute of Engineering and Technology, Vijayawada, India.	Teaching
Oct-19,2024 To 20-July-2025.	Research Associate	Indian Institute of science education and research, Tirupati, India.	Research
Oct-2023 To 09-Aug 2024	Research Associate	Indian Institute of Technology, Tirupati, India	Research
Oct-2020 To 31-March 2023	Research Associate	Indian Institute of science education and research, Tirupati, India.	Research

March-2019 To Aug-2020	Research Associate	Indian Institute of Technology Hyderabad, India.	Research
July-2013 To Dec-2013	Faculty	Rajah R.S.R.K Ranga Rao College, Bobbili, A.P, India.	Teaching

Research Interests

Broad Area of Research :

Organometallic Chemistry, Magnetism, Drug Design.

Honors and Awards

S.No.	Name of Award	Award Agency	Year
1)	Best Poster Award	National Symposium on Materials in Healthcare	2018
2)	Academic Appreciation Award	IIT Hyderabad	2017
3)	Senior Research Fellowship (SRF)	IIT Hyderabad	2016
4)	Best Poster Award	10th Mid-year CRSI Symposium in Chemistry (CRSI Mid-2015)	2015
5)	Junior Research Fellowship (JRF)	IIT Hyderabad	2014
6)	Graduate Aptitude Test in Engineering (GATE)	Ministry of Human Resource Development	2013

- One of our research work highlighted in National Level Newspapers. Link:
<https://timesofindia.indiatimes.com/city/hyderabad/iit-h-researchers-find-new-molecule-to-help-cure-als/articleshow/73970083.cms>

Courses Taught

S.No	Course Name	Level (UG/PG)
1	Physical chemistry	PG
2	Engineering chemistry	UG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?user=ofzybiMAAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57254739800#tab=metrics
ORCID	0000-0001-6360-1290
dblp	-
Publons	-
Research Gate	https://www.researchgate.net/profile/Raju-Gembali
LinkedIn	https://www.linkedin.com/in/raju-gembali-695a24184/

Recognized Research Supervisor

S.No.	Department	University
01.	Chemistry	Siddhartha Academy of Higher Education (Deemed to be University)

Publications (List of papers published in SCI Journal):

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1)	Sadhana Nirwal, Preethi Saravanan, Akarsh Bajpai, Vini D. Meshram, Gembali Raju , Waghela Deeksha, Ganesan Prabusankar, and Basant K Patel*	In Vitro Interaction of a C-Terminal Fragment of TDP-43 Protein with Human Serum Albumin Modulates Its Aggregation	The Journal of Physical Chemistry B	126	9137-9151	2022
2)	Amandeep Girdhar, Vidhya Bharathi, Vikas Ramyagya Tiwari, Suman Abhishek, Usha Saraswat Mahawar, G. Raju , Sandeep Kumar Singh, Ganesan Prabusankar, Eerrappa Rajakumara, and Basant K Pa-	Computational insights into mechanism of AIM4-mediated inhibition of aggregation of TDP-43 protein implicated in ALS and evidence for in vitro inhibition of liquid-liquid phase separation (LLPS) of TDP-432C-A315T by AIM4	International Journal of Biological Macromolecules	147	117-130	2020

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3)	G.Prabusankar, G.Raju , V. Moulali, M. Mannarsamy, M. Nirmala, N. Shinya, M. Yamane, H. Kyohei, T. Osamu, B. Chinmoy, S. K. R. Sai.	Luminescent zinc(ii) selone macrocyclic ring	RSC Advances	9	14841-14848	2019
4)	G.Prabusankar, M. Nirmala, V. Moulali, G. Raju , V.Kavitha, A.Sathyanarayana, M. Yamane, S.Shohei, H.Kyohei, and T.Osamu.	Blue Emitting Acridine Tagged Silver(I)-bis-N-heterocyclic Carbene	RSC Advances	9	7543-7550	2019
5)	M. Nirmala, M. Adinarayana, K. Ramesh, M. Maruthupandi, M. Vaddamanu, G. Raju and G. Prabusankar	Water-soluble Superbulky (η^6 -p-cymene) Ruthenium (II) Amine: Active Catalyst in Oxidative Homocoupling of Arylboronic Acids and Hydration of Organonitriles	New Journal of Chemistry	42	15221-15230	2018
6)	G. Prabusankar, A.Sathyanarayana, G. Raju , and C. N. Babu	Methanol as a Hydrogen Source in Pd(II)-Bis-N-Heterocyclic Carbenes Mediated Catalytic Semi-reduction of Alkyne Under Mild Condition	Asian Journal of Organic Chemistry	6	1451-1459	2017
7)	G. Prabusankar, C. N. Babu, G. Raju and N. Sampath	Silver(I) and Copper(II)-Imidazolium Carboxylates: Efficient Catalysts in Ullmann Coupling Reactions	Journal of Chemical Sciences	129	553-559	2017
8)	A. Prasad, G. Raju , V. Sivalingam, A. Girdhar, G. Prabusankar, and B. K Patel	An acridine derivative, [4,5-bis{(N-carboxy methyl imidazolium)methyl}acridine] dibromide, shows anti-TDP-43 aggregation effect in ALS disease models	Scientific reports	6	39490	2016
9)	G. Raju , S. Vishwanath, A. Prasad, B. K Patel and G. Prabusankar	Imidazolium tagged acridines: Synthesis, characterization and applications in DNA binding and antimicrobial activities	Journal of Molecular Structure	1107	291-299	2016

10)	Deb Nabanita, Jaya-prakasan Chitra, Raju Gembali , Singh Vaibhav, Arun Kumar Bar.	Conformational flexibility-triggered differential sensing and metric for the naturally abundant transition metal ions by a pyrrole-functional Schiff base	European Journal of Inorganic Chemistry	28		2025
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List of Conferences:

S.No.	Name of Conference	Organizer	Country	Year
1)	National Symposium on Materials in Healthcare	GITAM- Hyderabad	India	2018
2)	National Symposium on Convergence of Chemistry and Materials	BITS-PILANI, Hyderabad	India	2017
3)	In-House Symposium-2017	IIT-Hyderabad	India	2017
4)	In-House Symposium-2016	IIT-Hyderabad	India	2016
5)	10th Mid-year CRSI Symposium in Chemistry	National Institute of Technology-Trichy	India	2015

Date: 02-07-2026

(Gembali Raju)
