

Faculty Profile

Dr. Rajendra Prasad S
Assistant Professor
 Department of Chemistry
 Davangere University



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 raju.rajendraprasad693@gmail.com
Born on 10/03/1989

Educational Details

Qualification	Subject	Year completed	University
B.Sc.	Chemistry, Computer Science, Biotechnology	2009	Kuvempu University
M.Sc.	Chemistry	2011	Davangere University
KSET	Chemical Science	2015	University of Mysore, Mysore [Accredited by UGC, New Delhi]
Ph.D.	Chemistry	2018	University of Mysore, Mysore

Research Experience

Ph.D Topic: Synthesis of Transition metal Vanadates-TiO₂ composite semiconductors for the photocatalytic degradation of organic pollutants in wastewater under the guidance of Dr.S.Srikantaswamy, University of Mysore, Mysore

Teaching Experience

Sl. No.	Designation	Institution/University	Class	From	To
1	Assistant professor	Davangere University	PG	2019	Till date
2	Guest Lecturer	Government Science College, Chitradurga	PG	2015	2019
3	Guest Lecturer	SJM, PU College, Chitradurga	PUC	2012	2019

Academic/Administrative responsibilities				
Sl. No	Post held	Institution	From	To
1	Department council member	Davangere university	2019	Till date
2	Public relation officer	Davangere university	2020	2021
3	Affiliation Committee member	Davangere university	2021	-
4	Co -Ordinator	Department of Studies in Chemistry, PG Centre, GR Hally	2023	2025
5	Special Officer	PG Centre, GR Hally	2026	Till date

Academic Search Engine ID		
Orchid ID	Scopus ID	Google Scholar ID
https://orcid.org/0000-0002-4318-3615	57219798877	https://scholar.google.com/citations?hl=en&user=gN_UtFUA

Research Paper Published:

1. Amballa Chaitanyakumar, Kanti Kusum Yadav, Levin Anbu Gomez, Prathap Somu, Saarumathi Senthoo, PW Jayakumar Choudhury, Saktishree Jena, Chetan Shekhar Karua, **Rajendra Prasad**, Shiva Prasad & Chandrappa Chinna Poojari (2021) Biogenically engineered silver nanoparticles using bael leaf extract and evaluation of its therapeutic potential, Materials Technology,
2. Kollur, S.P.; Prasad, S.K.; Pradeep, S.; Veerapur, R.; Patil, S.S.; Amachawadi, R.G.; S, **R.P.**; Lamraoui, G.; Al-Kheraif, A.A.; Elgorban, A.M.; Syed, A.; Shivamallu, C. Luteolin-Fabricated ZnO Nanostructures Showed PLK-1 Mediated Anti-Breast Cancer Activity. Biomolecules 2021, 11, 385.
3. Bhadraiah, U. K., Basavanna, V., Gurudatt, D. M., **Shivalingappa, R. P.**, Lingegowda, N. S., & Ningaiah, S. (2021). Bicyclic [1, 3, 4] Thiadiazolo [3, 2- α] Pyrimidine Analogues: Novel One-Pot Three-Component Synthesis, Antimicrobial, and Antioxidant Evaluation.
4. Chandramouli, M., Boraiah, V. K., & Shivalingappa, **R. P.** (2021). Based Carbon Dioxide Sensors: Past, Present, and Future Perspectives.
5. Chandramouli, M., Shivalingappa, R. P., Basavanna, V., Doddamani, S., Shanthakumar, D. C., Nagarajaiah, **S. R.**, & Ningaiah, S. (2022). Oral thin-films from design to delivery: a pharmaceutical viewpoint. *Biointerface Res Appl Chem*, 13(2), 177-0.

6. **Rajendraprasad, S.,** Ali, S., & Prasanna, B. M. (2020). Electrochemical Behavior of N 1-(3-Methylphenyl) Piperidine-1, 4-Dicarboxamide as a Corrosion Inhibitor for Soft-Cast Steel Carbon Steel in 1 M HCl. *Journal of Failure Analysis and Prevention*, 20(1), 235-241.
7. Ankegowda, V.M., Kollur, **S.R., Prasad, S.K.,** Pradeep, S., Dhramashekara, C., Jain, A.S., Prasad, A., Srinivasa, C., Sridhara Setty, P.B., Gopinath, S.M. and Bahkali, A.H., 2020. Phyto-mediated synthesis of silver nanoparticles using *Terminalia chebula* fruit extract and evaluation of its cytotoxic and antimicrobial potential. *Molecules*, 25(21), p.5042.
8. Mariswamy, V.H., Puttaveerappa, D., Prasad, S.K., Shivamallu, C., Veerapur, R., **Prasad, S.R.,** Begum, M. and Kollur, S.P., 2020. Chemical Synthesis, Spectral Characterization and Antitumor Activity of Co (II), Zn (II) and Ni (II) Complexes Derived from Thiazole-based Schiff Base Ligand.
9. M. B. Nayan **S.Rajendra Prasad, S.** Srikantaswamy K. Jagadish, M. R. Abhilash, M. (2019), Solar- Light-Induced Photocatalytic Properties of Novel MnV2O6/TiO2 Nanocomposite Paper No.PP-154, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
10. **S. Rajendra Prasad, S.** Srikantaswamy, D.Shivakumar, K. Jagadish, M. R. Abhilash, Synthesis,characterization of copper metavanadate (CuV2O6) nanostructures via, hydrothermal method and the photocatalytic performance. *Oriental Journal of Chemistry*, 2018, 4, 3, 78-84.
11. **Rajendraprasad, S.,** Kumar, C., Quah, C.K., Chandraju, S., Lokanath, N.K., Naveen, S. and Warad, I., 2017. (E)-1-(3-Bromophenyl)-3-(3-fluorophenyl) prop-2-en-1-one. *IUCrData*, 2(3), p.x170379.
12. **Rajendraprasad, S.,** Kumar, C., Chandraju, S., Lokanath, N. K., Quah, C. K., Naveen, S., & Abdoh, M. (2017). (2E, 2' E)-1, 1'-(1, 4-Phenylene) bis [3-(3-chlorophenyl) prop-2-en-1-one]. *IUCrData*, 2(2), x170212.
13. Ganesh N Yallappa, **Rajendra Prasad S,** Ganesh N. Yallappa, Nataraja G, Megha G, Dhanyashree S. V, Leela P, Manukumar G. T., (2022). Microwav Assisted Green Synthesis of Paracetamol, Aspirin and their Pharmacokinetic Studies. *IJERT*, 10, 494-496.
14. Susheela, S., Srikantaswamy, S., Kumar, D.S., Shruthi, L. and **Prasad, S.R.,** (2015). Fractionation of heavy metals in sediments of Cauvery River, Karnataka, India. *International Journal for Research in Applied Science and Engineering Technology*, 3(5), pp.802-811.
15. S. Charan Kumar,H.C., **Rajendra prasad, S.,**Harsha, M., Shilpa, R., Anand., (2021). Electrochemical Degradation of 9-(2-Carboxyphenyl)-6-(diethyl amino)-N,N-diethyl-3H-xanthen-3-iminium chloride Dye at Sn/graphite Modified Electrode in Aqueous Solution. *Journal of Applicable Chemistry*, 10, 665-677.
16. CG Renuka, YF Nadaf, G Sriprakash, S Rajendra Prasad, (2018). Solvent Dependence on Structure and Electronic Properties of 7-(Diethylamino) - 2H -1- Benzopyran-2- one

(C-466) Laser Dye. *Journal of Fluorescence*, 28, 839-854.

17. Jahnavi, H. K., **Prasad, S. R.**, Nagaswarupa, H. P., Naik, R., Basavaraju, N., Ravikumar, ... & Kim, J. H. (2024). Exploring the diverse applications of sol-gel synthesized CaO: MgAl₂O₄ nanocomposite: morphological, photocatalytic, and electrochemical perspectives. *Discover Nano*, 19(1), 147.
18. SV, D., **S, R. P.**, HP, N., Naik, R., N, B., & CR, R. (2024). Synthesis and multifunctional applications of CaO: MgFe₂O₄ nanocomposite for electrochemical sensing, energy storage, and efficient photocatalytic dye degradation. *Sensing Technology*, 2(1), 2379390.
19. Madhu, H., **prasad, S. Rajendra**, Mylarappa, M., & Chandruvasan, S. (2025). Synthesis, characterization and multifunctional studies of clay doped CoFe₂O₄ nanocomposite using neem leaves. *IONICS*, 31(5), 5139-5168.
20. Madhu, H., & **Prasad, S. R.** (2025). Clay incorporated MnFe₂O₄ synthesized via green method for photocatalysis and antioxidant studies. *Journal of Alloys and Compounds Communications*, 6, 100062.
21. Madhu, H. **S Rajendra Prasad**. (2025). Green synthesis and reflux method of CuFe₂O₄ and Clay/CuFe₂O₄ nanocomposite for photocatalysis and antioxidant studies. *Chemistry of Inorganic Materials*, 6, 1000
22. SV Dhanyashree, **SR Prasad** (2025) Synthesis and Applications of MgO/BaFe₂O₄ Nanocomposite for Electrochemical Sensing and Efficient Photocatalytic Dye Degradation. *Chemistry of Inorganic Materials*, 100114
23. Mallikarjun Patil, Shridhar N Mathad, Arun Patil, **Rajendra Prasad S**, Raghavendra Bakale (2025) Understanding the Role of Natural Gas Contaminants in CO₂/CH₄ Separation Using Advanced Polyimide Membrane Technology, *Journal of Chemistry Letters*.
24. Jahnavi, H. K., & **Prasad, S. R.** (2026). Novel sol-gel synthesis of NiO/MgO nanocomposite for electrochemical studies and photocatalytic dye degradation under UV light. *Sustainable Chemistry One World*, 100194.
25. Jahnavi, H. K., & **Prasad, S. R.** (2026). Facile Combustion Synthesis of CaO/Co₃O₄ Nanocomposite for Efficient Photocatalytic Degradation and Electrochemical Sensing. *Journal of Alloys and Compounds Communications*, 100174.
26. Jahnavi, H. K, Krishnegowda, J., Vishwakumar, D. S., & **Shivalingappa, R. P.** (2026). Dual-functional CuO/Cr₂O₃ nanocomposite-modified electrode for paracetamol sensing and peroxymonosulfate-activated photocatalysis. *Journal of Nanoparticle Research*, 28(5), 115.
27. Vishwakumar Dhanyashree Savitha, Jagadish Krishnegowda, Jahnavi Hunasekatte Katamallappa, and **Rajendra Prasad Shivalingappa**. "Stable NiO-ZnFe₂O₄ p-n heterojunction nanocomposite for dual-functional photocatalysis and electrochemical sensing applications." *Environmental Science and Pollution Research* 33, no. 19 (2026): 9355-9371.
28. Katamallappa Jahnavi Hunasekatte, Jagadish Krishnegowda, Dhanyashree Savitha Vishwakumar, Sucheta Mallikarjunaiah, and **Rajendra Prasad Shivalingappa**. "Dual-

Functional Mn₂O₃-Co₃O₄ Nanocomposite for Visible-Light Photocatalytic Degradation and Electrochemical Detection of Trimethoprim." *Catalysis Letters* 156, no. 8 (2026): 238.

29. Dhanyashree, S. V., & **Rajendra, P. S.** (2026). Combustion-Driven BaO/NiFe₂O₄ Nanocomposite as an Efficient system for Photocatalytic Wastewater Remediation and Electrochemical Sensing. *Total Chemistry*, 100040.

Book/Book chapter published

1	Unraveling the phytochemical constituents of leaf, stem and invitro grown callus of <i>Tabernaemontana heyneana</i> WALL. and <i>Mussaenda</i>	Manasa D J, Chandrashekar K R, Rajendra prasad, Madhukumar D J, Chandan S, Shiva prasad K (2021)
2	Solar light induced Photocatalytic Properties of metal oxide Nanocomposite	Dr. Rajendra Prasad S., Dr. Shiva Prasad K., Dr. Srikantswamy S., Dr. Chandan S. (2021)
3	Degradation of Methylene Blue using Novel Cobalt Vanadate Titanium Dioxide Nanocomposites via Solar Light induced	Dr. Rajendra Prasad S., Dr. Shiva Prasad K Dr. Srikantswamy S., Dr. Chandan S.(2021)
4	Development of ZnFe ₂ O ₄ NPs via Sol gel Method for their Sensor, Electrochemical and Photocatalytic Applications	Authors-B S Surendra, S. Rajendra prasad, Nausheen, N Raghavendra, H P Nagaswarupa, T R Shashi Shekhar, S C Prashantha Publication date-2021, Book-Current Trends in Material Chemistry Pages- 109-118, Publisher-United Agencies
5	Sea Water Durability of Vinyl Ester Resin/Clay Based Nano composites and their Mechanical Properties	Authors-M R Anilkumar N Raghavendra, H P Nagaswarupa, T R Shashi Shekhar, S C Prashantha, M Mylarappa, B S Surendra, S. Rajendra prasad, C R Ravikumar Publication date-2021, Book-Current Trends in Material Chemistry Pages- 97-108, Publisher-United Agencies
6	Health of Women: A Review	Authors-S. Rajendraprasad, Publication date-2016 Book-Problems and Challenges of Human Rights in 21st Century Pages 133- 134, Publisher-Tara prints
7	Analytical Study of the INDO and U.S Nuclear Deal	Authors-S. Rajendraprasad, Publication date-2016/6/25 Book-Advances in Collaborative Research Volume-2 Pages-493-494, Publisher-Create Space
8	Design and Development of Novel Nanoferrite and Metal Oxide	Authors- SV Dhanyashree, HK Jahnavi, HV Harini, S Rajendra Prasad, HP Nagaswarupa, Ramachandra

	Composites for Energy Applications	Naik Publication date- 19/06/2024, Book Multifunctional Inorganic Nanomaterials for Energy Applications, Pages-96-119, Publisher CRC press
9	Wastewater Treatment Using Synthesized Metal Oxide-Based Nanocomposites	Authors- H.K. Jahnavi, S.V. Dhanyashree, S. Rajendra Prasad, H.V. Harini, H.P. Nagaswarupa. Publication date-19/06/2024,, Book- Multifunctional Inorganic Nanomaterials for Energy Applications, Pages- 283-312, Publisher CRC press
10	Evaluation of 3D-Printed Technology and Essential of Electrochemical Sensing	Authors- S. V. Dhanyashree, S. Ishwarya, S. Rajendra Prasad, H. P. Nagaswarupa, Ramachandra Naik. Publication date- 28/08/2025, Book-Additively Manufactured Electrochemical Sensors: Design, Performance, and Applications, Pages-1-19, Publisher-John Wiley & Sons, Inc
11	Applications of 3D-Printed Electrochemical Sensors in Energy and Industrial Processes	Authors- HK Jahnavi, BC Indumukhi, S Rajendra Prasad, HP Nagaswarupa, Ramachandra Naik, Publication date-17/09/2025. Book- Additively Manufactured Electrochemical Sensors: Design, Performance, and Applications, Pages-303-319, Publisher-John Wiley & Sons, Inc

Orientation/ Refresher course

1. First online multidisciplinary refresher course on E-governance program by using LINUX and GIT” organized by government first grade (TLC & FDC) College, Harihara from 17th August 2020 to 30th august 2020.
2. 4-week orientation programme for “faculty in universities/college/institutes of higher education” from June 4- July 01, 2020, TLC, Ramanujan college, University of Delhi
3. 2-week Interdisciplinary Refresher Course in Chemical Science in Online Mode from 27th October to 8th November, 2025, organized by Malaviya Mission Teacher Training Centre, Manipur University, Canchipur, Imphal, Manipur.

Conference/workshop/Seminars/Training Attended

1. **S. Rajendra Prasad**, K. Jagadish, M. R. Abhilash, M. B. Nayan, S. Srikantaswamy, K. Byrappa, Synthesis of MnV₂O₆/TiO₂ nanocomposites with high solar-light-induced photocatalytic properties, international conference on nanomaterials and their applications, March 1-2, 2018, UGC-CPEPA programmes, University of Mysuru-06, **(Poster presented)**
2. **S. Rajendra Prasad**, K. Jagadish, M. R. Abhilash, M. B. Nayan, S. Srikantaswamy, Low Temperature Hydrothermal Synthesis of transition metal vanadate titanium dioxide Nanoparticles, Recent development in science, Engineering and Technology, 10th October 2017, ATME College of Engineering, Musuru. **(Poster presented).**

3. **S. Rajendra Prasad**, S. Srikantaswamy K. Jagadish, M. R. Abhilash, M. B. Nayan (2019), Solar-Light-Induced Photocatalytic Properties of Novel MnV₂O₆/TiO₂ Nanocomposite Paper No. PP-154, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
4. **S. Rajendra Prasad**, K. Jagadish, M. R. Abhilash, S. Srikantaswamy, G. Akshatha, D. Shivakumar, M. B. Nayana, K. S. Rangappa and K. Byrappa (2018). Proceedings of International Conference on Nanomaterials and their Applications 2018 (ICNA 2018), University of Mysore, Mysuru, India.
5. **S. Rajendra Prasad**, K. Jagadish, M. R. Abhilash, S. Srikantaswamy, (2018) 106TH ISCA, January M. B, Akshatha G, Byrappa K, Rangappa K. S and Srikantaswamy, 3-7, Lovely Professional University, Jalandar, Punjab, India.
6. **S. Rajendra Prasad**, K. Jagadish, M. R. Abhilash, M. B. Nayan, S. Srikantaswamy, hydrothermal synthesis of Co₃V₂O₈/TiO₂ nanocomposite for the photocatalytic degradation of methylene blue dye degradation, National conference in recent trends in chemistry, K. M. Doddi. **(Poster presented)**
7. **S. Rajendra Prasad**, Presented the paper in the two-days national conference on “Application of Modern analytical techniques to fundamental research in chemistry” held on 9th and 10th March 2016 organized by Department of Chemistry, JSS College of Arts, Commerce and Science, Ooty road, Mysuru – 570025
8. Attended 7 days Faculty Development Program attended at Davangere University from 13th January 2020 to 20th January 2020.
9. Attended 7 days “workshop on NAAC Criteria” held from 03.02.2021 to 10.02.2021 February at Davangere university.
10. Participated in the online workshop on Drug Discovery and Development from 15th March-4th April 2022
11. Jahnvi H K, **Rajendra Prasad S**, Dhanyashree S V., Participated and presented the work entitled: Synthesis of CaO:CoO Nanocomposite by Combustion Route: Assessing Photocatalytic Performance and Wastewater Utilization for Enhancing Plant Growth in the 6th International Conference on Renewable Energy, Sustainable Environmental and Agricultural and Artificial Intelligence Technologies “BCG Towards Carbon Neutrality” on 26th - 27th September 2024.
12. Dhanyashree S V, **Rajendra Prasad S**, Jahnvi H K., Participated and presented the work entitled: Synthesis of BaO:NiFe₂O₄ nanocomposite by combustion method: Characterization, photocatalytic waste water remediation in the 6th International Conference on Renewable Energy, Sustainable Environmental and Agricultural and Artificial Intelligence Technologies “BCG Towards Carbon Neutrality” on 26th - 27th September 2024.
13. 7 days Faculty Development Program -cum-Workshop attended at Research India Foundation, Bhubaneswar, Odisha from 24th December to 30th December 2024.
14. **S. Rajendra Prasad**, participated in the two-days national conference on “Environment, Water, Agriculture, Sustainability, and Health”, Visveswaraya technological University, Muddenahalli, held on 13th and 14th December 2024
15. **S. Rajendra Prasad**, participated in the two days international conference on “Advances in Chemical and Physical Sciences (ICACPS-2025)” organized by the School of Physics Sciences, Amrita Vishwa Vidyapeetham, Mysuru Campus, held on 23rd and 24th January 2025.
16. Attended 7 days National Level Virtual Faculty Development Programme on the Theme: “Interdisciplinary Approaches In Science for a Sustainable Future” held from 15th to 21st September 2025, Organized by the Departments of Chemistry and Botany, Teresian College, Mysuru.
17. Jahnvi H K and **Rajendra Prasad S** Participated and presented the work entitled: “Synthesis and Electrochemical

Evaluation of Cr₂O₃/NiO Nanocomposite for Uric Acid Sensing” in the 8th International Conference on Sustainable Energy and Environmental Technologies 2025 (ICSEET-2025) organized by Reva University on 12th and 13th December 2025.

18. Dhanyashree S V and **Rajendra Prasad S** Participated and presented the work entitled “Synthesis of CuO/MgFe₂O₄ Nanocomposite by Sol-gel Method for Electrochemical Sensing Application” in the International Conference on Sustainable Energy Environmental Technologies 2025 (ICSEET-2025) on 12th, 13th December 2025.
19. Jahnnavi H K and **Rajendra Prasad S** Participated and presented the work entitled “**Synthesis and Structural Characterisation of CuO/NiO Nanocomposite for Electrochemical Sensing**” in the International Conference on Current Innovations in Chemical and Applied Sciences (CICAS-2026), organised by the Department of Chemistry, Bangalore University, held on 5th & 6th February 2026.
20. Jahnnavi H K and **Rajendra Prasad S** Participated in the one-day workshop on “**Electrochemical Energy Storage and Conversion**” Organized by Department of Studies in Chemistry, Davangere University, in association with the Royal Society of Chemistry & Hypower Green Energy Technologies held on March 12th, 2026.
21. Dhanyashree S V and **Rajendra Prasad S** Participated and presented the work entitled “**Synthesis and Application of MgO/BaFe₂O₄ Nanocomposite for Electrochemical Sensing of Guanine**” in the International Conference on Current Innovations in Chemical and Applied Sciences (CICAS-2026) organized by the Department of Chemistry, Bangalore University, held on 5th & 6th February, 2026.
22. Dhanyashree S V and **Rajendra Prasad S** Participated in the **One-day workshop on Electrochemical Energy Storage and Conversion** Organized by Department of Studies in Chemistry, Davangere University, in association with the Royal Society of Chemistry & Hypower Green Energy Technologies held on March 12th, 2026.
23. Jahnnavi H K and **Rajendra Prasad S** presented a paper entitled “**Sol-gel Synthesized CuO/Cr₂O₃ Nanocomposite for Enhanced Electrochemical Sensing of Tyrosine**” in the National Conference on Recent Trends in Chemical Sciences (NCRTCS-2026), organised by the Department of Studies in Chemistry, Davangere University, held on 29th May 2026.
24. Dhanyashree S V and **Rajendra Prasad S** presented a paper entitled “**Sol-gel Assisted Synthesis of Co₃O₄/NiFe₂O₄ Nanocomposite for High-Performance Electrochemical Sensing of L-Tyrosine**” in the National Conference on Recent Trends in Chemical Sciences (NCRTCS-2026), organised by the Department of Studies in Chemistry, Davangere University, held on 29th May 2026.

Awards

Young Scientist Award in the field of Studies in Chemistry On 13th January 2026 by the Scientific Laurels Committee in recognition of his exceptional achievements and outstanding contributions to Research and Development.

Membership of professional organizations	
Life member	Indian Science Congress Association (ISCA)
Life member	International Association of Engineers

Patent

Sl. No.	Patent Title	Application No.	Publication Date
1	Fluorescent Probe and Preparation Method Thereof for Detection of Cu(II) and Fe(III) Ions	202241003888 A	04/02/2022