

Faculty Profile

Personal Information

- Name: Dr. Rudresh Kumar KJ
- Designation: Associate Professor
- Department: ASH (Chemistry)
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Google Scholar: <https://scholar.google.com/citations?user=U7o4BBgAAAAJ&hl=en>

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Domain of Expertise

- Neuro Chemistry
- Nano Chemistry
- Environmental Chemistry

Research Focus

- Primary Area: Clinical Sciences
- Allied Areas: Nanoscience's and Water chemistry

Academic Qualifications

- Ph.D.: [Neurochemistry], [NIMHANS, GOI], [2008]
- M.Sc.: [Chemistry], [Bangalore University], [1998]
- B.Sc. : [Physics, Chemistry, Mathematics], [Bangalore University], [1996]

Professional Experience

S.No	Institute/College/Industry	Job Title	Duration (From- To)
1	RVITM	Associate Professor	2019-till date
2	Jyothy Institute of Technology	Associate Professor	2012-2019
3	Cambridge Institute of Technology	Associate Professor	2008-2012
4	RNSIT	Assistant Professor	2001-2003
5	Cipla	QC &QA	1998-2001

Publications & Patents

Journal Publications

1. Fe-doped NiO nanopowders for advanced photochemical applications: synthesis, characterization, photo-assisted dye degradation and latent fingerprint visualization RK KJ, AS Alqarni, UK Kagola, N Basavegowda *Physica B: Condensed Matter* 701, 416991
2. Effect of aliovalent substitution in the band structure engineered Ca²⁺-doped LaFeO₃ nanoparticles for visible light-induced photocatalytic studies N Srinatha, SS Reddy, M Al-Dossari, K Gurushantha, NS Abd EL-Gawaad, *Ceramics International* 50 (1), 1836-1848
3. Improved photocatalytic, antimicrobial and photoelectrochemical properties of nanocrystalline Cu²⁺-doped ZnO nanoparticles R Umashankar, SH Devi, K Gurushantha, SO Manjunatha, M Al-Dossari, *Ceramics International* 49 (13), 22449-22459.
4. Antibacterial activity and spectroscopic characteristics of silver nanoparticles synthesized via plant and in vitro leaf-derived callus extracts of *Mucuna pruriens* (L.) DC. B Rakesh, N Srinatha, KJ Rudresh Kumar, A Madhu, MR Suresh Kumar, *South African Journal of Botany* 148, 251-258.
5. New fuel governed combustion synthesis and improved luminescence in nanocrystalline Cr³⁺ doped ZnAl₂O₄ particles N Srinatha, SS Reddy, N Suriyamurthy, KJR Kumar, MRS Kumar, *Results in Optics* 8, 100242.
6. A novel combustion fuel for the synthesis of nanocrystalline ZnAl₂O₄ particles based on the thermodynamic correlations and their structural and optical studies N Srinatha, KJR Kumar, MRS Kumar, A Madhu, B Angadi *Ceramics International* 48 (3), 3669-3675.
7. Combustion synthesis of Al-doped ZnO nanoparticles using a new fuel and the study of its structural, micro-structural and optical properties N Srinatha, KJR Kumar, MRS Kumar, KV Pattar, A Madhu, B Angadi. *Applied Nanoscience* 11 (4), 1197-1209.
8. Relevance of plasma levels of free homocysteine and methionine as risk predictors for ischemic stroke in the young KJ Rudreshkumar, V Majumdar, D Nagaraja, R Christopher *Clinical Nutrition* 37 (5), 1715-1721
9. Plasma S-adenosylhomocysteine: A potential risk marker for cerebral venous thrombosis VB Pinnelli, RK K J *Clinica chimica acta* 458.

10. Application of Factor Analysis in the Assessment of Ground Water Quality in Bangalore North Taluk RK KJ, TJR Prasad International Journal 3 (5), 1560-1564
11. SEASONAL VARIATION OF NITRATE IN NATURALWATER OF BANGALORE NORTH RK KJ, TJR Prasad International Journal 2 (11), 1120-1122.
12. The influence of MTR A2756G polymorphism on plasma homocysteine in young south Indians L Diwakar, KJR Kumar, A Bachnalkar, V Ravindranath, R Christopher, Clinica chimica acta; international journal of clinical chemistry 395

Books/Book Chapters

1. Leaf Litter Management in Urban Landscape Management: Recent Approaches

Authors K. J. Rudresh Kumar B. S. Mohan Kumar Suresh Babu Krishna Naidu Sharangouda J. Patil Published in Solid Waste Management Publisher Springer Nature Switzerland 2025.

2. Metal Sulfide Nanomaterials for Environmental Applications “Advances in biogenic synthesis of metal sulfide nanomaterials”

Authors B.S. Mohan Kumar, K.J. Rudresh Kumar, Sharangouda J. Patil, Suresh Babu Naidu Krishna
Micro and Nano Technologies 2025, Pages 107-134

Patents Published/ Granated

1. Solar evacuated tube with jacketed thermal heat storage, RV Institute of Technology and Management, Dr. Lokesh P, Nikhil K V, Justin Raj Immanuel, Dr. Rudresh Kumar K J, Dr. Raghavendra Reddy N V, Dr. C Soliamuthu

Professional Memberships

1. Indian Academy of Neurosciences Life Member
2. Electrochemical Society - Life Member
3. Luminescence Society of India (Karnataka Chapter) Life member
4. ISTE Life Member

External Connect

5. BOS – Chemistry (Member) VTU nominee for BMSIT 2024- to till date
6. BOE -Chemistry (Member) VTU 2010-2011