

Recent Selected Publications from the Department of Chemistry:

1. *Potential application of Sacchromyces cerevisiae and Rhizobium immobilized in multiwalled carbon nanotubes to adsorb hexavalent chromium*
T. Sathvika, A. Soni, K. Sharma, M. Praneeth, M. Mudaliyar, V. Rajesh, **N. Rajesh**,
Scientific Reports, **2018**, 8, 9862. DOI: [10.1038/s41598-018-28067-9](https://doi.org/10.1038/s41598-018-28067-9)
2. *Leveraging the Potential of Endomycorrhizal Spores and Montmorillonite for Hexavalent Chromium Adsorption from Aqueous Phase*
T. Sathvika, M. Mudaliyar, V. Rajesh, **N. Rajesh**
Chemistry Select, **2018**, 3, 2747. DOI: [10.1002/slct.201702167](https://doi.org/10.1002/slct.201702167)
3. *Impact of heavy metal lead stress in polyamines in Halomonas BVR1 isolated from electronic industry effluent*
Manasi, S. Mohapatra, V. Rajesh, **N. Rajesh**
Scientific Reports, **2017**, 7, 13447. DOI: [10.1038/s41598-017-13893-0](https://doi.org/10.1038/s41598-017-13893-0)
4. *A perspective on diverse adsorbent materials to recovery precious palladium and the way forward*
S. Sharma, A. S. K. Kumar, **N. Rajesh**
RSC Advances, **2017**, 7, 52133. DOI: [10.1039/C7RA10153H](https://doi.org/10.1039/C7RA10153H)
5. *Synthesis of 4-substituted pyrrolo [2,3-c]quinolines via microwave assisted C-N bond formation.*
T.R. Penjarla, M. Kandarapu, S. Baquer and **A. Bhattacharya**.
Chemistry Select, **2018**, 3, 5386. DOI: [10.1002/slct.201800614](https://doi.org/10.1002/slct.201800614)
6. *Sulfur-Assisted Deprotection of Methylene Nitrile Group: One-Pot Synthesis of 4-Substituted-2H-1,2,3-triazoles*
H. N. Nagesh, S. Srinivasarao, A. Suresh, S. Nizalapur, S. Murugesan, K. Kanneboina, N. Kumar, **K. V. G. Chandra Sekhar**.
Chemistry Select, **2018**, 3, 7565. DOI: [10.1002/slct.201801075](https://doi.org/10.1002/slct.201801075)
7. *Synthesis and activity of benzopiperidine, benzopyridine and phenyl piperazine based compounds against Leishmania infantum.*
S. Chander, P. Ashok, R. Reguera, M. Perez, R. Andres, B. Rafael, **K. V. G. Chandra Sekhar**, S. Murugesan
Experimental parasitology, **2018**, 189, 49. DOI: [10.1016/j.exppara.2018.04.017](https://doi.org/10.1016/j.exppara.2018.04.017)
8. *Design, Synthesis and Biological Evaluation of Triazole-Containing 2-Phenylindole and Salicylic Acid as Quorum Sensing Inhibitors against Pseudomonas aeruginosa*
S. Srinivasarao, S. Nizalapur, T. T. Yu, D. S. Wenzholz, P. Trivedi, B. Ghosh, K. Rangan, N. Kumar, **K. V. G. Chandra Sekhar**.
Chemistry Select (**2018**, In press). DOI: [10.1002/slct.201801622](https://doi.org/10.1002/slct.201801622)

- 9.** *Deciphering the role of bilayer of a niosome towards controlling the entrapment and release of dyes*
D. P. Damera, V. K. Venuganti and **A. Nag**
Chemistry Select, **2018**, 3, 3930. DOI: [10.1002/slct.201800374](https://doi.org/10.1002/slct.201800374)
- 10.** *Towards single crystalline, highly monodisperse and catalytically active gold nanoparticles capped with probiotic Lactobacillus plantarum derived lipase*
I. Khan, R. Nagarjuna, J. Ray Dutta, **R. Ganesan**
Applied Nanoscience, **2018**, DOI: [10.1007/s13204-018-0735-7](https://doi.org/10.1007/s13204-018-0735-7).
- 11.** *Oxygen insensitive thiol–ene photo-click chemistry for direct imprint lithography of oxides*
R. Nagarjuna, M. S. M. Saifullah and **R. Ganesan**
RSC Advances, **2018**, 8, 11403. DOI: [10.1039/C8RA01688G](https://doi.org/10.1039/C8RA01688G)
- 12.** *Weak Donor-/Strong Acceptor-Linked Anthracenyl π -Conjugates as Solvato(fluoro)chromophore and AEEgens: Contrast between Nitro and Cyano Functionality*
M. Z. K. Baig, B. Prusti, D. Roy, P. K. Sahu, M. Sarkar, A. Sharma, **M. Chakravarty**
ACS Omega, **2018**, DOI: [10.1021/acsomega.8b01258](https://doi.org/10.1021/acsomega.8b01258)
- 13.** *Peptide Sequence and Solvent as Levers to Control Disulfide Connectivity in Multiple Cysteine Containing Venom Toxins*
K. A. Sajeevan and **D. Roy**
J. Phys. Chem. B, **2018**, 122, 5776. DOI: [10.1021/acs.jpcc.8b01437](https://doi.org/10.1021/acs.jpcc.8b01437)
- 14.** *Aqueous ionic liquids influence the disulfide bond isoform equilibrium in conotoxin AuIB: a consequence of the Hofmeister effect?*
K. A. Sajeevan and **D. Roy**
Biophysical Reviews, **2018**, 10, 769. [10.1007/s12551-017-0391-2](https://doi.org/10.1007/s12551-017-0391-2)
- 15.** *Base-Promoted Synthesis of 2-Aryl Quinazolines from 2-Aminobenzylamines in Water*
T. Chatterjee, D. I. Kim and E. J. Cho
J. Org. Chem., **2018**, 83, 7423. DOI: [10.1021/acs.joc.8b00327](https://doi.org/10.1021/acs.joc.8b00327)
- 16.** *Electrochromic Os(II)-Based Metallo-Supramolecular Polymers*
M. K. Bera, **C. Chakraborty**, U. Rana, and M. Higuchi
Macromol. Rapid Commun. **2018**, 1800415. DOI: [10.1002/marc.201800415](https://doi.org/10.1002/marc.201800415)