



# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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### DEPARTMENT OF CHEMISTRY

Research Publications-2019-2020

#### Dr. T Ramakrishnappa

- Ionic liquid–assisted hydrothermal synthesis of Nb/TiO<sub>2</sub> nanocomposites for efficient photocatalytic hydrogen production and photodecolorization of Rhodamine B under UV-visible and visible light illuminations, T. N. Ravishankar, **T. Ramakrishnappa**, S.R. Teixeira, J. Dupont. Materials today chemistry, 12, 2019, 373-385.
- Copper oxide impregnated glassy carbon spheres based electrochemical interface for nitrite/nitrate sensing, **T. Ramakrishnappa**, **K. Suresh Kumar**, M. Pandurangappa, Materials Chemistry and Physics, 245, 2020, 122744
- Synthesis of Nano ZnO: A Catalyst for N-formylation of Aromatic Amines and Biodiesel Application, **L.S. Reddy Yadav**, Venkatesh R, Raghavendra M, Ramakrishnappa T, Current Nanomaterials, 5, 2020, 66-78.
- Photocatalytic Activities, Kinetics and Adsorption Isotherm Studies of CeO<sub>2</sub> Nanoparticles Synthesized via Low Temperature Combustion Method, **L.S. Reddy Yadav**, **Ramakrishnappa T**, Current Nanomaterials, 4, 2019,223-234.
- Green synthesis of Ag- ZnO nanoparticles: Structural analysis, hydrogen generation, formylation and biodiesel applications, **L.S. Reddy Yadav**, **T. Ramakrishnappa T**, Journal of Science: Advanced Materials and Devices, 4, 2019, 425-431.
- Piperazine appended naphthalimide scaffold as turn on fluorescent probe for hydrogen sulfide, **K. Suresh Kumar**, **Ramakrishnappa T**, Micro chemical Journal, 157, 2020, 105019
- A novel mixed matrix membrane of phenolphthalein hydrazide and polysulfone for the detection of copper ions in environmental water samples, **K. Suresh Kumar**, **Ramakrishnappa T**, Environmental Progress & Sustainable Energy, 38, 2019,13167.

#### Dr. Bincy Rose Vergis

- Removal of Evans Blue dye from aqueous solution using magnetic spinel ZnFe<sub>2</sub>O<sub>4</sub> nanomaterial: Adsorption isotherms and kinetics, **Bincy Rose Vergis**, Nagaraju Kottam, Nano-Structures & Nano-Objects, 18, 2019, 100290

### **Dr. Sudheer Kumar K H**

- Novel orange-red emitting Pr<sup>3+</sup> doped CeO<sub>2</sub> nanopowders for white light emitting diode applications, R.B. Basavaraj, R. Lokesh, **K. H. Sudheer Kumar**, Inorganic Chemistry Communications, 2020, 108164
- Reformed solution combustion approach for probing of structural and dielectric properties of Sm<sup>3+</sup> doped GdAlO<sub>3</sub> nanoparticles, R. Lokesh, **K. H. Sudheer Kumar**, Mater. Res. Express 6 (2019) 105066

### **Mrs. Swetha G A**

- Benzoate as Corrosion Inhibitor for Mild Steel in Acidic Corrosive Medium: Experimental and Theoretical Analysis, **Swetha, G. A**, Sachin, H. P, Guruprasad, A. M, Prasanna, B. M, Rizatriptan Journal of Failure Analysis and Prevention, 19 (2019) 1113-1126
- Corrosion inhibition of zinc in 0.1 M hydrochloric acid medium with clotrimazole: Experimental, theoretical and quantum studies, A.M. Guruprasad, H.P. Sachin, **G.A. Swetha**, B.M. Prasanna, Surfaces and Interfaces 19 (2020) 100478

### **Dr. Jyoti Roy Choudhuri**

- Wetting Transition of a nanodrop on switchable hydrophilic-hydrophobic surfaces, Jyoti **Roy Choudhuri**, Pinku Nath, Surfaces and Interfaces (accepted)

### **Dr. Jyothi C Abbar**

- Sensitive and selective voltammetric oxidation and determination of an antiemetic drug using gold electrode and its biomedical applications, J C Abbar, MD Meti, ST Nandibewoor, Surfaces and Interfaces (accepted)

### **Dr. Suresh Kumar K**

- Copper oxide impregnated glassy carbon spheres based electrochemical interface for nitrite/nitrate sensing, T. Ramakrishnappa, K. Suresh Kumar, M. Pandurangappa, Materials Chemistry and Physics, 245, 2020, 122744.
- Piperazine appended naphthalimide scaffold as turn on fluorescent probe for hydrogen sulfide, **K. Suresh Kumar, Ramakrishnappa T**, Micro chemical Journal, 157, 2020, 105019
- A novel mixed matrix membrane of phenolphthalein hydrazide and polysulfone for the detection of copper ions in environmental water samples, **K. Suresh Kumar, Ramakrishnappa T**, Environmental Progress & Sustainable Energy, 38, 2019,13167.