

RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY,
NANDYAL (AUTONOMOUS)

Department of chemistry

2018-19

LIST OF ARTICLES IN WEB OF SCIENCE JOURNALS

1. Bakthavatchala Reddy Nemallapudi, Grigory V. Zyryanov, **Balakrishna Avula**, Mallikarjuna Reddy Guda and | Sravya Gundala. An effective green and ecofriendly catalyst for synthesis of bis(indolyl)methanes as promising antimicrobial agents. *J Heterocyclic Chem.* 1–9, **2019**.
2. G. Sravya, , G. Suresh, Grigory v. Zyryanov, **A. Balakrishna** , and N. Bakthavatchala Reddy. K₂CO₃/Al₂O₃: An Efficient and Recyclable Catalyst for One-Pot, Three Components Synthesis of α -Aminophosphonates and Bioactivity Evaluation, *Asian Journal of Chemistry*, Vol. 31, No. 10, 2383-2388, **2019**.
3. B. Reddy Nemallapudi, G.V. Zyryanov, **Balakisna Avula**, M. Reddy Guda, S. Reddy Cirandur, C. Venkataramaiah, W. Rajendra, S. Gundala. Meglumine as a green, efficient and reusable catalyst for synthesis and molecular docking studies of bis(indolyl)methanes as antioxidant agents, *Bioorganic Chemistry*, Volume 87, Pages 465-473, June **2019**.
4. Mohan Challam Challa, **Balakrishna Avula**, Sravya Gundala, Mallikarjuna Reddy Guda, Grigory V. Zyryanov, Suresh Reddy Cirandur, Bakthavatchala Reddy Nemallapudi. A Simple and Convenient Strategy for the Synthesis of Novel Ten, Twelve, and Fourteen- membered Phosphorus Macrocyclic Compounds. *Journal of Heterocyclic Chemistry*. 56, 3, pg no: 818-823 First published: 16 January **2019**.
5. **Birusanti, Arun Babu**, Umamahesh Mallavarapu, Devanna Nayakanti, Chandra Sekhar Espenti. Sustainable green synthesis of silver nanoparticles by using Rangoon creeper leaves extract and their spectral analysis and anti-bacterial studies. *IET Nanobiotechnology*, 13(1):71-76, 01 Feb **2019**.
6. **T.V. Surendra**, S.M. Roopan, Md. Maksudur Rahman Biogenic approach to synthesize rod shaped Gd₂O₃NPs and its optimization using RSM-BBD model, *Biotechnology progress*, Vol. 35, pp. 1-12, **2019**.
7. **T.V. Surendra**, D. Devipriya, S.M. Roopan, Md. Maksudur Rahman, R. Hassanien Multi-perspective CuO@C nanocomposites: Synthesis using drum stick peel as carbon source and its optimization using Response Surface Methodology, *Composite Part B*, Vol. 172, pp. 690-703. **2019**.
8. N. B. Reddy, Grigory V. Zyryanov, G. M. Reddy, **Avula Balakrishna**, A. Padmaja, V. Padmavathi, Cirandur Suresh Reddy, J. R. Garcia, G. Sravya. Design and Synthesis of Some New Benzimidazole Containing Pyrazoles and Pyrazolyl Thiazoles as Potential Antimicrobial Agents, *Journal of Heterocyclic Chemistry*. Vol 8, Issue: 2 589-596, 04 December **2018**.

9. **Balakrishna, Avula**, Aguiar, António, Sobral, Pedro, Wani, Mohmmad, Silva, Joana, and Abilio JFN Sobral. Paal-knorr synthesis of pyrroles: From conventional to green synthesis CATALYSIS REVIEWS, VOL. 60, Issue NO.4, 1–28, **2018**.
10. Simulation results-source for the identification of biological active compounds: Synthesis, antimicrobial evaluation and SARs of three in one heterocyclic motifs, N.B. Reddy, G.V. Zyryanov, G.M. Reddy, **A. Balakrishna**, J.R. Garcia, A. Camilo. Jr, G. Sravya, Medicinal Chemistry Research, 27:1956–1970, **2018**.
11. Nano-TiO₂/SiO₂ catalyzed synthesis, theoretical calculations and bioactivity studies of new α -aminophosphonates, G. Sravya, V.Z. Grigory **A. Balakrishna**, K.M.K. Reddy, C.S. Reddy, G.M. Reddy, A. Camilo Jr, J.R. Garcia, N. Bakthavatchala Reddy, Phosphorus, Sulfur, and Silicon and the Related Elements, Volume 193, Issue 9, Pages 562-567, 19 Apr **2018**.
12. Akkili Suseelamma, **Karreddula Raja**, Katreddi Hussain Reddy. Synthesis, Characterization, DNA Binding and Nuclease Activity of Cobalt(II) Complexes of Isonicotinoyl Hydrazones Iran. J. Chem. Chem. Eng. Vol. 37, No. 4, 63-74, **2018**.