

## CBIT Listed Research Publications- Chemistry Department (2017-Till Date)

S.NO	Name of the Author, Title of Paper, Journal name, PP, Issue, Year	CBIT Listed Journals	Department
1	<b>(2017-18)</b> N Rajitha, <b>S Shylaja</b> , KC Rajanna, and B Yadagiri , "Polyethylene Glycols as Efficient Catalysts for the Oxidation of Bicyclic Monoterpenes by Ceric Ammonium Nitrate in Acetonitrile under Acid-Free Conditions: Kinetic and Mechanistic Approach" International Journal of Chemical kinetics, 2018, 50 (6) , 383-396. <a href="https://doi.org/10.1002/kin.21168">https://doi.org/10.1002/kin.21168</a> .	Wiely	Chemistry
2	<b>(2019-20)</b> <b>D.Saritha*</b> , A concise review on the advancement of anode materials for Li-ion batteries, Material Today: Proceedings, 19, part 2 726, (2019). <a href="https://doi.org/10.1016/j.matpr.2019.07.759">https://doi.org/10.1016/j.matpr.2019.07.759</a> .	Elsevier	Chemistry
3	<b>(2020-21)</b> Rajitha Nampally , Shylaja Somannagari, Chinna Rajanna Kamatala, *, Yadagiri Bhongiri , Umesh Kumar Utkoor, "Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions" Chemical data collections, vol 31, 100645, <a href="https://doi.org/10.1016/j.cdc.2020.100645">https://doi.org/10.1016/j.cdc.2020.100645</a> .	Elsevier	Chemistry
4	<b>(2020-21)</b> M.Anand, <b>P.Muralikrishna</b> , D.Suresh Babu, B.VijayaKumar and G.Upender, Vibrational, thermal and optical studies of $30\text{TeO}_2 \cdot 39.5\text{B}_2\text{O}_3 \cdot (30-X)\text{-ZnO} \cdot x\text{Li}_2\text{O} \cdot 0.5\text{V}_2\text{O}_5 (0 \leq x \leq 30 \text{ mol}\%)$ glass system, Journal of Non-Crystalline Solids, vol 566, 120875. <a href="https://doi.org/10.1016/j.jnoncrysol.2021.120875">https://doi.org/10.1016/j.jnoncrysol.2021.120875</a> .	Elsevier	Chemistry
5	<b>(2020-21)</b> <b>D.Saritha*</b> , Synthesis and Electrochemical Analysis of $\text{Li}_3\text{Ti}_0.75(\text{MoO}_4)_3$ Phase with Lyonsite Structure, Russian journal of electrochemistry, Vol.56, page no 626, (2020). <a href="https://doi.org/10.1134/S1023193520080054">https://doi.org/10.1134/S1023193520080054</a>	Springer	Chemistry
6	<b>(2020-21)</b> <b>D.Saritha*</b> , Sol gel synthesis and electrochemical properties of wolframite $\text{FeNbO}_4$ , IOP Journal of physics: conference series, 1495 012019 (2020). <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1495/1/012019/meta">https://iopscience.iop.org/article/10.1088/1742-6596/1495/1/012019/meta</a> .	Elsevier	Chemistry
7	<b>(2020-21)</b> Harshavardhan Reddy, <b>D.Saritha</b> , Dhatreyi Boyina, 3D Printed Lattice Structures: A Review, IEEE Xplore, <a href="https://doi.org/10.1109/NAP51477.2020.9309680">https://doi.org/10.1109/NAP51477.2020.9309680</a> , 2020	IEEE	Chemistry
8	<b>(2020-21)</b> - Rajesh Kodyath, <b>Gubbala V. Ramesh*</b> , Maidhily Manikandan, Shigenori Ueda, Takeshi Fujita & Hideki Abe (2020) Intermetallic $\text{Pd}_3\text{X}$ (X= Ti and Zr) nanocrystals for electro-oxidation of alcohols and formic acid in alkaline and acidic media, Science and Technology of Advanced Materials, 21:1, 573-583, <a href="https://doi.org/10.1080/14686996.2020.1789437">https://doi.org/10.1080/14686996.2020.1789437</a>	Taylor and Francis	Chemistry

9	<b>(2020-21)</b> -2D Layered Structure of Bismuth Oxyhalides for Advanced Applications Muvva D. Prasad, <b>Gubbala V. Ramesh</b> , and Sudip K. Batabyal Adapting 2D Nanomaterials for Advanced Applications., 295-315 <a href="https://pubs.acs.org/doi/10.1021/bk-2020-1353.ch012">https://pubs.acs.org/doi/10.1021/bk-2020-1353.ch012</a>	ACS	Chemistry
10	<b>(2021-22)</b> Jilloju, P.C., Persoons, L., <b>Kurapati, S.K.</b> Dominique Schols, Steven De Jonghe, Dirk Daelemans, and Rajeswar Rao Vedula, Discovery of (±)-3-(1 H -pyrazol-1-yl)-6,7-dihydro-5 H - [1,2,4]triazolo[3,4- b ][1,3,4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity . Mol Divers 26, 1357–1371 (2022). <a href="https://doi.org/10.1007/s11030-021-10258-8">https://doi.org/10.1007/s11030-021-10258-8</a> .	Springer	Chemistry
11	<b>(2021-22)</b> Dash, A.R., Lakhani, A.J., Devi Priya, <b>D.Surendra,T.V</b> , Rahman Khan, md. M, J samuel,E.J,Roopan,S.M. Green Synthesis of Stannic Oxide Nanoparticles for Ciprofloxacin Degradation: Optimization and Modelling Using a Response Surface Methodology (RSM) Based on the Box–Behnken Design, Journal of Cluster Science, <b>34</b> ,121–133(2021), <a href="https://doi.org/10.1007/s10876-021-02198-y">https://doi.org/10.1007/s10876-021-02198-y</a> .	Springer	Chemistry
12	<b>(2021-22)</b> <b>Sujithra R, D.Saritha</b> , Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer, 2021, <a href="https://doi.org/10.1080/2374068X.2021.1948707">https://doi.org/10.1080/2374068X.2021.1948707</a>	Tylor &Francis	Chemistry
13	<b>(2021-22)</b> <b>D.Saritha</b> , Dhatreyi Boyina, A concise review on 4 D printing technology, Material Today: Proceedings, 46(1), 692-695,2021. <a href="https://doi.org/10.1016/j.matpr.2020.12.016">doi.org/10.1016/j.matpr.2020.12.016</a> , 2021	Elsevier	Chemistry
14	<b>(2021-22)</b> <b>D.Saritha*</b> , Recent progress on ReO <sub>3</sub> type structures as electrodes for Li- ion batteries, Material Today: Proceedings, 41(5) ,1130-1134, 2021. <a href="https://doi.org/10.1016/j.matpr.2020.08.761">https://doi.org/10.1016/j.matpr.2020.08.761</a> .	Elsevier	Chemistry
15	<b>(2021-22)</b> <b>D.Saritha*</b> , Synthesis and electrochemical properties of Fe <sub>2</sub> WO <sub>6</sub> , D.Saritha, Material Today: Proceedings, 38 (5), 2512-2514, 2021. <a href="https://doi.org/10.1016/j.matpr.2020.07.538">https://doi.org/10.1016/j.matpr.2020.07.538</a> .	Elsevier	Chemistry
16	<b>(2021-22)</b> 2D Nanomaterials for Photocatalysis and hot electrocatalysis. Authors: <b>Gubbala V. Ramesh</b> , * <b>N. Mahendar Reddy</b> , Muvva D. Prasad, <b>D. Saritha</b> , <b>Kola Ramesh</b> . Wiley-VCH, Weinheim, Chapter 22, pp 383-411, 2021, <a href="https://doi.org/10.1002/9783527823963.ch22">https://doi.org/10.1002/9783527823963.ch22</a> .	Wiely	Chemistry
17	<b>(2021-22)</b> <b>D. Saritha*</b> , A brief review of cathode materials for Li-ion batteries, 1, 521-529,2022 Springer, <a href="https://link.springer.com/chapter/10.1007/978-981-16-6875-3_44">https://link.springer.com/chapter/10.1007/978-981-16-6875-3_44</a> .	Springer	Chemistry
18	<b>(2021-22)</b> <b>Saritha, D., Reddy, N.M., Ramesh, G.V.</b> (2022). Ordered Pt <sub>3</sub> M (M = Early d-Block Metals) Intermetallic Nanocrystals: Synthesis and Electrocatalysis. In: Bindhu, V., R. S. Tavares, J.M., Tălu, Ș. (eds) Proceedings of Fourth International	Springer	Chemistry

	Conference on Inventive Material Science Applications. Advances in Sustainability Science and Technology. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-4321-7_48">https://doi.org/10.1007/978-981-16-4321-7_48</a>		
19	<b>(2021-22) Ramesh, G.V., Mahendar Reddy, N., Saritha, D*</b> . (2022). Modern Progression in Anode Materials for Lithium-Ion Batteries: Review. In: Bindhu, V., R. S. Tavares, J.M., Țălu, Ș. (eds) Proceedings of Fourth International Conference on Inventive Material Science Applications. Advances in Sustainability Science and Technology. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-4321-7_49">https://doi.org/10.1007/978-981-16-4321-7_49</a>	Springer	Chemistry
20	<b>(2021-22) Naveen K. Dandu, Ch. G. Chandaluri, Kola Ramesh, D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh</b> , Chapter 11 - Carbon nanomaterials: Application as sensors for diagnostics, Editor(s): Sushma Dave, Jayashankar Das, Sougata Ghosh, Advanced Nanomaterials for Point of Care Diagnosis and Therapy, Elsevier, 2022, Pages 211-248, ISBN 9780323857253, <a href="https://doi.org/10.1016/B978-0-323-85725-3.00015-5">https://doi.org/10.1016/B978-0-323-85725-3.00015-5</a> .	Elsevier	Chemistry
21	<b>(2021-22) Gubbala V. Ramesh,* Ch. G. Chandaluri, Kiran Kumar Tadi, Naveen K. Dandu, N. Mahender Reddy</b> , 12 - Recent advances in functional materials: Bioelectronics-integrated biosensor applications, Editor(s): Kaushik Pal, Sabu Thomas, In Woodhead Publishing Series in Electronic and Optical Materials, Functional Materials Processing for Switchable Device Modulation, Woodhead Publishing, 2022, Pages 221-239, ISBN 9780128239728, <a href="https://doi.org/10.1016/B978-0-12-823972-8.00002-2">https://doi.org/10.1016/B978-0-12-823972-8.00002-2</a> .	Elsevier	Chemistry
22	<b>(2021-22) Tadi, K.K., Reddy, N.M., Chandaluri, C.G., Sakala, G.P., Ramesh, G.V.*</b> (2022). Functionalized Biopolymer Nanocomposites for the Degradation of Textile Dyes. In: Hato, M.J., Sinha Ray, S. (eds) Functional Polymer Nanocomposites for Wastewater Treatment. Springer Series in Materials Science, vol 323. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-94995-2_6">https://doi.org/10.1007/978-3-030-94995-2_6</a>	Springer	Chemistry
23	<b>(2022-23) N. Mahender Reddy, Gubbla V. Ramesh, D. Saritha*</b> , Contemporary advancement on the alloy-based anodes for Sodium-ion batteries, Materials Today: Proceedings, Volume 64, Part 1, 2022, Pages 290-294, ISSN 2214-7853, <a href="https://doi.org/10.1016/j.matpr.2022.04.531">https://doi.org/10.1016/j.matpr.2022.04.531</a> .	Elsevier	Chemistry
24	<b>(2022-23) D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh</b> , Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview, Materials Today: Proceedings, Volume 64, Part 1, 2022, Pages 357-362, ISSN 2214-7853, <a href="https://doi.org/10.1016/j.matpr.2022.04.705">https://doi.org/10.1016/j.matpr.2022.04.705</a> .	Elsevier	Chemistry

25	<b>(2022-23) D.Saritha*</b> , C.H.Sandeep, R.Sujithra, Current advancement on anode materials for Na-ion batteries: Review, Material Today:Proceedings, Volume 62, part 6, Pages 3022-3026, <a href="https://doi.org/10.1016/j.matpr.2022.03.068">https://doi.org/10.1016/j.matpr.2022.03.068</a> .	Elsevier	Chemistry
26	<b>(2022-23) Prachi Singhal, R.Sujithra, D.Saritha,</b> Effect of alternate fill pattern on mechanical properties of FDM printed PC-PBT alloy, Material Today Proceedings, Volume 62, part 6, pages 3791-3799. <a href="https://doi.org/10.1016/j.matpr.2022.04.470">https://doi.org/10.1016/j.matpr.2022.04.470</a>	Elsevier	Chemistry
27	<b>(2022-23) D.Saritha*</b> , A concise review on the removal of heavy metals from wastewater using adsorbents , Material Today Proceedings, Volume 62,part 6, pages3973-3977. <a href="https://doi.org/10.1016/j.matpr.2022.04.579">https://doi.org/10.1016/j.matpr.2022.04.579</a> .	Elsevier	Chemistry
28	<b>(2022-23) N. Mahender Reddy, D. Saritha, Naveen K. Dandu, Ch.G. Chandaluri, Gubbla V.Ramesh</b> Chapter 13, Recent Advances of Biomass-Derived Porous Carbon Materials in Catalytic Conversion of Organic Compounds, Chapter: Biomass-Derived Carbon Materials: Wiely , <a href="https://doi.org/10.1002/9783527832903.ch13">https://doi.org/10.1002/9783527832903.ch13</a>	Wiely	Chemistry
29	<b>(2022-23) MR. Rashmi, Ramesh Kola, Manoj Kumar, Kumar Pratyush, Priya Dule, GA. Sivasankar ,</b> "Investigation of heat transfer for silver oxide (Ag <sub>2</sub> O) and iron oxide (Fe <sub>3</sub> O <sub>4</sub> ) using nano fluid over a stretch sheet" Materials Today: Proceedings" Volume 69, Issue 3, pp. 1118- 1125, September 2022, <a href="https://doi.org/10.1016/j.matpr.2022.08.176">https://doi.org/10.1016/j.matpr.2022.08.176</a> .	Elsevier	Chemistry
30	<b>(2022-23) S.Ravindran, L. Reeta Carolin, V.Gopal, K. Ramesh, G.Ravi, S.Sathya,</b> "Influence of nano-TiC content on the properties of Al <sub>2</sub> O <sub>3</sub> aluminium metal matrix composites" Materials Today: Proceedings" Volume 69 , Issue 3 , pp. 922- 926, August 2022, <a href="https://doi.org/10.1016/j.matpr.2022.07.371">https://doi.org/10.1016/j.matpr.2022.07.371</a>	Elsevier	Chemistry
31	<b>(2022-23) Kishor Palle, Shanthi Vunguturi, K. Subba Rao, Sambhani Naga Gayatri, P. Ramesh Babu, Md. Mustaq Ali, Ramesh Kola,</b> "Comparative study of adsorption isotherms on activated carbons synthesized from rice husk towards carbon dioxide adsorption" Chemical Papers Volume 76, pp. 7865–7866, August 2022, <a href="https://doi.org/10.1007/s11696-022-02371-1">https://doi.org/10.1007/s11696-022-02371-1</a>	Springer	Chemistry
32	<b>(2022-23) Sateesh Mulkapuri, Athira Ravi, Rajendar Nasani, Sathish Kumar Kurapati, Samar K Das.</b> Barrel-Shaped-Polyoxometalates Exhibiting Electrocatalytic Water Reduction at Neutral pH: A Synergy Effect. Inorganic Chemistry 2022, 61, 35, 13868–13882. <a href="https://doi.org/10.1021/acs.inorgchem.2c01811">https://doi.org/10.1021/acs.inorgchem.2c01811</a>	ACS	Chemistry
33	<b>(2022-23) G.K.V.Nachiyar, T.V. Surendra, V. Kalaiselvi, R. Rajagopal, P. Kuppusamy, N. basavegowda, S.M. Roopan.</b> "Box–Behnken response surface methodology design for amaranth	Elsevier	Chemistry

	dye degradation using gold nanoparticles”, Optik, 169633, Vol. 267, 2022. 10.1016/j.ijleo.2022.169633		
34	<b>(2022-23)</b> Ramesh Gade, Manohar B, Narendra babu S, <b>Rama Devi V</b> , Someshwar P, Prabhakar C. Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants, Environmental Science: Water Research & Technology journal, 2022, 8, 3065-3078.	RSC	Chemistry
35	<b>(2022-23)</b> Sangeetha Povari, Shadab Alam, <b>Shylaja Somannagari</b> , Lingaiah Nakka, and Sumana Chenna (2023) “Oxidative Dehydrogenation of Ethane with CO <sub>2</sub> over the Fe-Co/ Al <sub>2</sub> O <sub>3</sub> Catalyst: Experimental Data Assisted AI Models for Prediction of Ethylene Yield” Journal of Industrial & Engineering Chemistry Research, <a href="https://doi.org/10.1021/acs.iecr.2c04002">https://doi.org/10.1021/acs.iecr.2c04002</a>	ACS	Chemistry
36	<b>(2022-23)</b> <b>Sathish Kumar Kurapati</b> , Transmetalation: A Post-synthetic Modification Tool for Functional Metal–Organic Framework Materials. Recent Advances in Materials Processing and Characterization. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-5347-7_2">https://doi.org/10.1007/978-981-19-5347-7_2</a>	Springer	Chemistry
37	<b>(2022-23)</b> <b>K.Sathish Kumar, N. Mahendar Reddy, R Sujithra, K. Ramesh, Gubbala V. Ramesh, D Saritha</b> * Book Title: Nanotechnology Based Additive Manufacturing: Product Design, Properties and Applications, Chapter Title: Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications and Technological Challenges, Wiley-VCH, Weinheim – vol1 , page no 53-102, 2023. <a href="https://doi.org/10.1002/9783527835478.ch3">https://doi.org/10.1002/9783527835478.ch3</a>	Wiley	Chemistry
38	<b>(2022-23)</b> R. Sujithra, B. Dhatreyi, <b>D. Saritha</b> * Book Title: Nanotechnology Based Additive Manufacturing: Product Design, Properties and Applications, Chapter Title: Nanomaterials-Based Additive manufacturing for Mass Production of Energy Storage Systems: 3D Printed Batteries and Supercapacitors, Wiley-VCH, Weinheim, vol2 , page no 369-498, 2023. <a href="https://doi.org/10.1002/9783527835478.ch13">https://doi.org/10.1002/9783527835478.ch13</a>	Wiley	Chemistry

#### Patents applied

Effect of chemical treatment on natural fibre reinforced composites, Dr.D. Saritha, Dr.B.Dhatreyi, Dr.R.Sujithra, 2021, Application No.202141003308 A. (Published)