



**Sharada Education Trust ®**  
**CAMBRIDGE INSTITUTE OF TECHNOLOGY NORTH CAMPUS**

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**Details of faculty Publications**  
Ref./CITNC/IQAC/2024-25/03

**Published By**  
**Internal Quality Assurance Cell - CITNC**

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### Details of Faculty Publication (Academic Year 2024-25)

Sl. No		Publication Details
1	Prof. Rekha	<p>Journal-Springer            Title-Poisonous plants detection using deep learning International Conference Paper</p> <p>Journal-Springer            Title- Enhancing reliability of spacecraft physical attitude sensor through the development of ML based virtual sensor International Conference Paper</p>
2	Prof. Varshini TR	<p>Journal-MethodsX            Title -Proximal Policy optimization with Self Adaptive penalty Function Based Resource Allocation for Vehicular Communications</p> <p>Journal- Springer            Title-Poisonous Plants detection Using Deep Learning- International Conference Paper</p>
3	Dr. Chandrakala	<p>“Characterization and Adsorption Studies of Activated Carbon Derived from Wood Apple Fruit Shell”. Abstract of the paper presented at the one-day National Conference SSSF-2025- Science and Society for Sustainable Future, GFGC, Tumkur, in association with Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.</p> <p>“A Comprehensive Review on the Preparation, Characterization, and Applications of Nano Titanium Dioxide (TiO<sub>2</sub>)”. Abstract of the paper presented at the one-day National Conference SSSF-2025- Science and Society for Sustainable Future, GFGC, Tumkur, in association with Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.</p>
4	Prof. Anusha	Corrosion Characterization of Aluminium 7075 Alloy / Red Mud Composites in Mixture of Sodium Hydroxide and Sodium Chloride Medium, 2020, Studies in Indian place names

5	Prof. Navya	“A Comprehensive Review on the Preparation, Characterization, and Applications of Nano Titanium Dioxide (TiO <sub>2</sub> )”. Abstract of the paper presented at the one-day National Conference SSSF-2025- Science and Society for Sustainable Future, GFGC, Tumkur, in association with Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.
6	Dr. Segumaran	IoT System for Real-Time Monitoring and Management of Artificial Water Resources in Elephant Habitats to Mitigate Human-Elephant Conflict - Book Chapter Accepted for publication by Springer Nature Switzerland AG
		An AI Based Real-Time Predictive Maintenance Framework For Tea Industry Machinery for the chapter 16 - Sectoral Case Study IV : AI in Manufacturing and Smart Factories
		Smart Forestry 5.0 for Powered AI Sustainable Environment and Climate” to be published by Springer
		“Role of AI in Management, to be published by Taylor and Francis
7	Dr. Yoganandini	Design And Farication of Static Exviter For Alternete 2025 Jetir July 2025, VOLUME 12, ISSUE 7
8	Dr. Tejaswini	Paper Published in Journal of Technology “GSM-Enabled Facial Recognition Anti-Theft System
		Paper Published in Journal of Technology “Activated Personal Robot”
		Paper Published in Journal of Technology “EEG Based Driver Drowsiness Detection by using Discrete Wavelet Transform”
9	Prof. Bharath NP	“A Comprehensive Review on the Preparation, Characterization, and Applications of Nano Titanium Dioxide (TiO <sub>2</sub> )”. Paper presented at the one-day National Conference SSSF-2025- Science and Society for Sustainable Future, GFGC, Tumkur, in association with Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.
		“Green Technologies, Digital and Ecological Transformation, Circular economy, smart resource management and industry 4.0/5.0: A framework for sustainable innovation”. Paper presented at International Conference on Frontiers of Sustainability -Global Responsibility for Innovation and Entrepreneurship, organized by the Research Centre, Thiagarajar School of Management, India.

10	Dr. Raja Ramakrishna	<p>Novel multi-component fluoride glasses for light scintillating device applications submitted to Next Materials</p> <p>Q1 – Scopus Indexed Journal</p> <p>1.5<math>\mu</math>m Luminescence in Erbium-Doped Boro-Germanate Glasses for Optical Fiber Amplifiers and Telecommunication Applications submitted to Next Materials</p> <p>Q1 – Scopus Indexed Journal</p> <p>Impact of V<sub>2</sub>O<sub>5</sub> on the Dissolution Behavior of Sodium Aluminoborosilicate-Based Model Nuclear Waste Glass submitted to Applied Glass Science</p> <p>Silver nanoparticle co-doped with Sm<sup>3+</sup> ions in lithium barium zinc silicate glasses for enhanced photoluminescence studies submitted to RECCAP 2026 Conference conducted by IIT Palakad</p> <p>Q2 – Scopus Indexed Journal, IEEE Xplore</p>
11	Prof. Sharvani	<p>“A Comprehensive Review on the Preparation, Characterization, and Applications of Nano Titanium Dioxide (TiO<sub>2</sub>)”. Paper presented at the one-day National Conference SSSF-2025- Science and Society for Sustainable Future, GFGC, Tumkur, in association with Karnataka Science and Technology Academy (KSTA), Govt. of Karnataka.</p> <p>“Green Technologies, Digital and Ecological Transformation, Circular economy, smart resource management and industry 4.0/5.0: A framework for sustainable innovation”. Paper presented at International Conference on Frontiers of Sustainability -Global Responsibility for Innovation and Entrepreneurship, organized by the Research Centre, Thiagarajar School of Management, India.</p>
12	Dr. Abhilash	<p>Influence of deep cryogenic and natural ageing treatment on Al 7068-Al<sub>2</sub>O<sub>3</sub> metal matrix composites</p> <p>Scopus Q2 Indexed Published January – 2025 Taylor &amp; Francis Ltd</p>
13	Dr. Prashanth	<p>Effect of Dct Copper Chill Plate on Al6061 Alloys Incorporated into Silicon Carbide Composites Via Stir Die Casting Process: An Experimental Study.</p> <p>Q3</p>

		<p>Effects of Abrasion Rate and Thermal Conductivity on CopperChill Plate/DCT-Chill Plate Amalgamated with Al-Mg/Sic Composites. Q2</p> <p>To Study the Effect of Deep Cryo-Treatment on Copper Chills Used In Sand Casted Al-Sic Composites UGC</p> <p>Green-synthesized YSZ_polypyrrole nanocomposites for enhanced electrochemical and butane gas sensing applications Q2</p> <p>Development of polypyrrole - yttria stabilizedzirconiahybrid catalyst for enhanced photodegradation of congo reddy</p>
14	Dr. Avinash	<p>Effect of Dct Copper Chill Plate on Al6061 Alloys Incorporated into Silicon Carbide Composites Via Stir Die Casting Process: An Experimental Study. Q2</p> <p>Effects of Abrasion Rate and Thermal Conductivity on Copper- Chill Plate/DCT-Chill Plate Amalgamated with Al-Mg/Sic Composites.</p> <p>To Study the Effect of Deep Cryo-Treatment on Copper Chills Used In Sand Casted Al-Sic Composites</p>
15	Prof. Chandras M	Presented a Paper at First International Conference on Advanced Materials & Sustainable Technologies