

Name

Puppala Laxman Mani Kanta

**Designation**

Project Scientist-B

Qualification

M.Tech (Materials Science and Engineering)

B.Tech (Metallurgical and Materials Engineering)

Experience

Nov' 2016 to till date	Project Scientist-B, CAEM, ARCI, Chennai.
Aug' 2016 to Oct' 2016	Project Engineer, NFTDC, Hyderabad.
May 2015 to May 2016	Masters Project Trainee, CSIR-NML, Jamshedpur.

Research Areas of interest

Electrochemical energy storage materials (Li and Na ion Batteries),
Phase transformations in materials,
Electrochemical characterization techniques,
Corrosion science and engineering and
Mechanical behavior of materials

Patents

"Microwave assisted sol-gel process for preparing in-situ carbon coated electrode materials and the product there of" Bijoy Kumar Das, **P. Laxman Mani Kanta**, N. Lakshmi Priya, G. Sundararajan and R. Gopalan. PCT/IN2020/050143 filed on 13-02-2020 with International publication No

- WO2020174487 dated on 03-09-2020, Indian application no - 201911008004, Korean application no - 10-2020-7025994, Japanese application no - 2020-550159.

Journal Publications

1. "Corrosion behavior of ultrafine-grained AA2024 aluminum alloy produced by cryorolling." **P. Laxman Mani Kanta**, V. C. Srivastava, K. Venkateswarlu, Sharma Paswan, B. Mahato, Goutam Das, K. Sivaprasad, and K. Gopala Krishna. *International Journal of Minerals, Metallurgy, and Materials* 24, no. 11 (2017): 1293-1305.
2. "Scalable synthesis and kinetic studies of carbon coated sodium titanate: A promising ultra-low voltage anode for sodium ion battery." **P. Laxman Mani Kanta**, M. Venkatesh, Satyesh Kumar Yadav, Bijoy Kumar Das and R. Gopalan. *Transactions of Indian National Academy of Engineering* 5, (2020): 475-483.

Conferences

1. Participated in "Prediction, Prevention and Post Analysis of Engineering Failures." workshop organized by Society of Failure analysis, Tiruchirappalli chapter in association with NIT Trichirappalli in 2014.
2. Attended 3rd National conference on Materials for Energy Conversion and Storage organized by IIT (BHU) Varanasi in association with Energy Science Society of India during October 18-20, 2018 to give oral presentation on "Carbon coated $\text{Na}_2\text{Ti}_3\text{O}_7$ as a potential anode for sodium ion batteries"
3. Presented a poster on "Development of sodium ion batteries for large scale grid energy storage applications" in Young Scientists Conference

(YSC) organized by India International Science Festival 2019 (IISF) during November 5-7, 2019 at Biswa Bangla Convention Centre, Kolkata.

Affiliation to professional bodies

Annual member for the Society of Failure analysis, Tiruchirappalli chapter during 2014-2015.

Contact Information

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Taramani, Chennai – 600 113.

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Awards and Honors

Achieved academic proficiency prize by securing third rank in I-IV semesters during masters (2014-2016) in NIT Tiruchirappalli.