Name of Faculty	Dr. Marepally Bhanu Chandra	
Designation	Assistant Professor	
Nature of Job/Appointment	Regular	
Date of Joining	01-12-21	
E-mail	bhanuchandram_ece@cbit.ac.in	

Education Qualifications	Name of the Degree	Class
Ph.D.	Erasmus Joint Doctorate (Nano Technology) 1) University of Claude Bernard, Lyon, France 2) University of Messina, Italy	Awarded (Full Time - Erasmus Mundus)
PG	M. Tech (Nano Technology) Vellore Institute of Technology, Tamil Nadu, India.	Distinction (Gold Medallist)
UG	B. Tech (ECE) International Institute of Information Technology, IIIT-Hyderabad, Telangana, India.	First

Work Experience	11 Years
Teaching	4.5 Years
Research	3.5 Years
Industry	3 Years
Others	Scientific Consultant with STRL Bio systems
Area of Specialization	Nano Technology, Solar Cells & Hydrogen Energy, Fuel Cells and Photonics.
Academic Identity	Scopus ID: 56940935700 Researcher ID: C-5755-2018 Orcid ID: 0000-0001-5836-856X
Professional Memberships	IEEE (ID: 98529210) ; EAI ; Erasmus Mundus Association (EMA)
Responsibilities held at Institution Level	i. Associate Dean, R&D, K L University, Hyderabad (KLH) ii. Erasmus Mundus Assembly, Program Representative, Italy iii. Doctoral Committee Member, Anna University
Responsibilities held at Department Level	Research Progress Assessment Committee (RPAC) Chair & Member, KLH R&D Coordinator & Co-Committee, CBIT, Hyderabad
Research Guidance	Ongoing - PhDs: 1
Awards Received	*i. i2E Lab Start-Up Awardee, TSIC & Make Room India* – 2022. ii. *STRL BIO Systems – Consultancy Grant* – 2021. (3 Lakhs) iii. *DST SERB – Core Research Grant*, India – 2019. (56.3 Lakhs) iv. *Start-Up India competition*, India, Awarded in Top-200 – 2019. v. *Erasmus Mundus Fellowship*-Joint PhD on Sustainable Industrial Chemistry (SINCHEM) – 2013. (75 Lakhs) vi. *High Distinction certification* on Fundamentals of Nano-Electronics by NanoHub, 'Purdue University' – 2012. vii. *CSIR NET'12* - Junior Research Fellowship in Physics (Rank - 100) and *GATE'13* (Rank - 257) – 2012. viii. *GOLD medallist* and member of the *Honor's club* for M. Tech Nanotechnology. (2011-13) ix. *Gate Fellowship* from DST, India in Nano Tech. (2011-13) x. *Mr. Susee Soundararajan Endowment Award* and *Meritorious* scholarship at VIT University. (2011-13) xi. *IIT-JEE* – AIR *900* in Screening AIR *3100* in Mains; *AIEEE* - AIR *759* - 2005. xii. *National Science Olympiad* - Ranked 1st in Hyderabad and AIR 97th - 2004. xiii. *Mathematics and Chemistry Olympiad* - selected for state 2003.
Courses Handled at Under Graduate / Post Graduate Level.	Electromagnetics and Transmission Lines and Applications, Principles and Applications of AI, Electrical Circuit Theory, Analog Electronics and Circuit Design, Electronics system design, Solar Photovoltaic Cells and Power arrays.
No. of Papers Published	National Journals – -- International Journals – 10 National Conference – -- International Conference – 02
Projects Carried out	i. *Principal Investigator*: DST SERB – Core Research Grant – 56.3 Lakhs Title: Development of Nanofoam based Plasmonic structures towards Photo-Electro-Chemical Water-Splitting and CO_2 reduction. ii. *Principal Investigator*: STRL BIO Systems, Consultancy – 3 Lakhs Title: Nano-UV based Air Filtration and Bio-Sterilization devices
Patents	i. An apparatus for IOT based Healthcare monitoring, diagnosis and treatment using thir

	client communicating techniques, 202241007808 (Published). ii. Negative Ion Based Continuous Disinfection System, 202141019111 (Filed).
Technology Transfer	----
Invited Speaker (Reviewer)	3rd SINCHEM Winter School, Bologna, Italy - 2016 (Speaker) *Topic: Production of Solar Fuels using CO_2*
No. of Books/Chapter Published with details	i. Book Chapter: Graphitic Carbon Nitrides based Dye Sensitized Solar Cells and Perovskite Solar Cells for Energy Harvesting, "Energy Harvesting Trends for Low Power Compact Electronic Devices", Springer, 2022 (Accepted). ii. Book Chapter: Production of Solar Fuels using CO_2, "Studies in Surface Science and Catalysis", Elsevier, 9780444641274, 2019.
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**).	i. INUP-i2i Familiarization Workshop, IISc Banglore, India – 2022. ii. Training program on "Prospects for Start-ups in Solar Energy Technologies", National Institute of Solar Energy (NISE), India – 2020. iii. National Seminar on "Bio Signal Processing for Health Care Applications", Dec. 17-19, 2019. iv. The AI & ML – FDP by NIT Warangal, KLEF, Hyderabad, India - 2018. v. The EPICS – Annual Symposium by Purdue Univ., Hyderabad, India - 2018. vi. The I SINCHEM Autumn Sch. Green phys. Chem., Montpellier, France - 2016. vii. The Ecole de Catalyse - ELITECAT, Lyon, France - 2015. viii. The Biotic CO_2 Workshop and SCOT Workshop, Lyon France - 2014. ix. The Latest Developments in Solar Photovoltaic Technology - Seminar, P.S.G. Institute of Advanced Studies, Coimbatore, India - 2013.

Details of Journal Publications/ Conferences

Marepally, B.C., Ampelli, C., Genovese, C., Sayah, R. Veyre, L., Dalverny, C., Thieuleux, C., Quadrelli, E.A., Perathoner, S., & Centi, G. "Supported metallic nanoparticles prepared by an organometallic route to boost the electrocatalytic conversion of CO_2." Journal of CO_2 Utilization, Vol. 50, pp. 101613, (2021). (IF – 7.1 ; citations – 2)

Venumbaka, M. R., Akkala, N., Duraisamy, S., Saravanan, S., Poola, P. K., Rao, D. S., Shrivatsava, A. K., **Marepally, B.C.*,** "Performance of TiO_2, Cu-TiO_2, and N-TiO_2 nanoparticles Sensitization with Natural Dyes for Dye Sensitized Solar Cells." Materials Today: Proceedings, Vol. 49, 2747-2751 (2022).

Venumbaka, M.R., Raina, J.P.(Late), **Marepally, B.C.*,** "Plasmonic E-field Enhancements and Coupling Effects of Metallic Structures using FDTD." Materials Today: Proceedings, Vol. 47, 1855-1861, (2021). (citations – 1)

Marepally, B.C., Ampelli, C., Genovese, C., Tavella, F. Quadrelli, E.A., Perathoner, S., & Centi, G. "Area Optimization of CMOS Full Adder Design Using 3T XOR." WiSPNET, IEEE, 192-194, (2020). (citations – 16)

Marepally, B.C., Ampelli, C., Genovese, C., Tavella, F. Quadrelli, E.A., Perathoner, S., & Centi, G. "Electrocatalytic reduction of CO_2 over dendritic-type Cu- and Fe-based electrodes prepared by electrodeposition." Journal of CO_2 Utilization, Vol. 35, pp. 194-204, (2020). (IF – 7.1 ; citations – 18)

Saboo, T., Tavella, F., Ampelli, C., Perathoner, S., Genovese, C., **Marepally, B.C.**, Veyre, L., Quadrelli, E.A., & Centi, G. "Water splitting on 3D-type meso/macro porous structured photoanodes based on Ti mesh." Solar Energy Materials and Solar Cells, Vol. 178, pp. 98-105, (2018). (IF – 7.3 ; citations – 23)

Marepally, B.C., Ampelli, C., Genovese, C., Saboo, T., Perathoner, S., Wisser, F.M., Veyre, L., Canivet, J., Quadrelli, E.A., & Centi, G. "Enhanced formation of >C 1 products in the electroreduction of CO_2 by adding a carbon dioxide adsorption component to a gas diffusion layer type catalytic electrode." ChemSusChem, Vol. 10, pp. 4442-4446, (2017). (IF – 9.1 ; citations – 49)

Marepally, B.C., Ampelli, C., Genovese, C., Tavella, F., Veyre, L., Quadrelli, E.A., Perathoner, S., Centi, G. "Ultrafine Cu nanoparticles onto nanocarbon-based electrodes for the electrocatalytic reduction of CO_2." Journal of CO_2 Utilization, Vol. 21, pp. 534-542, (2017). (IF – 7.1 ; citations – 45)

Ampelli, C., Genovese, C., **Marepally, B. C.**, Papanikolaou, G., Perathoner, S., & Centi, G. "Electrocatalytic conversion of CO_2 to produce solar fuels in electrolyte or electrolyte-less configurations of PEC cells." Faraday Discussions, Vol. 183, pp. 125-145, (2015). (IF – 4.0 ; citations – 54)

Genovese, C., Ampelli, C., **Marepally, B.C.**, Papanikolaou, G., Perathoner, S., Centi, G. "Electrocatalytic reduction of CO_2 for the production of fuels: a comparison between liquid and gas phase conditions." Chemical Engineering Transactions, Vol. 43, pp. 2281-2286, (2015). (citations – 17)

Sarkar, Paramita; Parameswaran, Chithra; Harish, C.; **Chandra, M. Bhanu**; Grace, A. Nirmala. "Kinetics of silver nanoparticle growth using DMF as reductant – Effect of surfactants." Advanced Materials Research, Vol. 938, pp. 30-35, (2014). (citations – 6)

Saranya, M.; Garg, Srishti; Singh, Iksha; Ramachandran, R.; Santhosh, C.; Harish, C.; Vanchinathan, T. Mudaliar; **Chandra, M. Bhanu**; Grace, A. Nirmala. "Solvothermal Preparation of ZnO/Graphene Nanocomposites and its photocatalytic properties." Nanoscience and Nanotechnology Letters, Vol. 5(3), pp. 349-354, (2013). (IF-1 ; cit. – 25)

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