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Mrs. R. Sindhuja, Working as an Assistant Professor in the Department of EEE at SRMIST, Ramapuram. She got Graduated in Electrical and Electronics Engineering at Government college of Technology (GCT), Coimbatore, Tamilnadu, India. She secured Master of Engineering in Power Electronics and Drives at Anna University, College of Engineering (CEG- Campus), Chennai, India. She is Pursing Ph.D. in the field of Multilevel Inverter and its control at Annamalai University, Chidambaram, India. She is in teaching profession for 6 years. She has presented her works in reputed International Journals and National and International Conference.

#### **Areas of Research:**

Multilevel Inverter, Controlling Techniques & Soft computing.

#### **Selected Publications:**

##### **Web of Science/SCI**

1. R. Sindhuja and S. Padma, "Logical Analysis for Switching Sequence Generation in 15-Level Reduced Switch MLI," in IEEE Canadian Journal of Electrical and Computer Engineering, vol. 46, no. 3, pp. 237-245, Summer 2023, doi: 10.1109/ICJECE.2023.3275734. [SCIE - IF 2]
2. Sindhuja, R., & Padma, S. (2023). Bipolar DC output fed grounded DC-AC converter for photovoltaic application. Electrical Engineering & Electromechanics, (2), 57 - 62. <https://doi.org/10.20998/2074-272X.2023.2.09>. [ESCI, Scopus, WoS]
3. Parimalasundar, E., Jayanthi, R., Suresh, K., & Sindhuja, R. (2023). Investigation of efficient multilevel inverter for photovoltaic energy system and electric vehicle applications. Electrical Engineering & Electromechanics, (4), 47-51. <https://doi.org/10.20998/2074-272X.2023.4.07>. [ESCI, Scopus, WoS]
4. E. Parimalasundar, K. Suresh, B. Hemanth Kumar, K. Janardhan and R. Sindhuja, "Analysis of the Effectiveness of a Two-Stage Three-Phase GridConnected Inverter for Photovoltaic Applications", Journal of Solar Energy Research, vol. 8, no. 2, 1471-1483, 2023. [Scopus]
5. Sindhuja, S. Padma, "Implementation of M-Type Carrier-based PWM Method for 13-Level Multilevel Inverter," SSRG International Journal of Electrical and Electronics Engineering, vol. 10, no. 2, pp. 172-179, 2023. Crossref, <https://doi.org/10.14445/23488379/IJEEE-V10I2P116>. [Scopus]
6. R. Siva Sai, S. Muqthiar Ali, J. Rafi, R. Sindhuja, R. Ashok Bakkiyaraj, "Explorative Analysis of

Various Properties in Transformer Oil Based Nanofluids and Vegetable Oils for a Transformer” ,  
Journal of Green Engineering (JGE) Volume-10, Issue-6, June 2020. [Scopus]

**Google Scholar:**

<https://scholar.google.com/citations?hl=en&user=Ptoi9yYAAAAJ>