

## BIO-DATA

**Dr. V.MEGALA**

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She is currently working as Assistant Professor in the Department of Electronics and Communication Engineering at SRM Institute of Science and Technology, Ramapuram. She received her Bachelor degree in Electrical and Electronics Engineering from Bharathiyar University, Coimbatore in 2002 and Master degree in Applied Electronics from Government College of Technology, Anna University Coimbatore in 2004. She received her Ph.D degree from Anna University Chennai as a full time research scholar in 2019. She has 17 years of teaching experience, published more than 30 papers in SCI and Scopus Indexed Journal. She published 2 papers IEEE transaction Journals.

### **Area of Research:**

Nano Technology, High Voltage Engineering, IoT system Design, Artificial Intelligence and Image Processing

### **International Journal Publications: SCI**

1. **V. Megala** and C. Pugazhendhi Sugumaran, "Application of PI/MWCNT Nanocomposite for AC Corona Discharge Reduction," in IEEE Transactions on Plasma Science, vol. 47, no. 1, pp. 680-687, Jan.2019. doi: 10.1109/TPS.2018.2877581 (Impact Factor:1.354)
2. **V. Megala** and C. Pugazhendhi Sugumaran, "Enhancement of Corona Onset Voltage Using PI/MWCNT Nanocomposite on HV Conductor," in IEEE Transactions on Plasma Science, vol. 48, no. 4, pp. 1122-1129, April 2020, doi: 10.1109/TPS.2020.2979843.
3. Swathi, T.N., **Megala, V.** Design and Simulation of Symmetrical Dual Gate on Drain Side with Overlapped and Underlapped Regions of TFET. Silicon (2022). <https://doi.org/10.1007/s12633-022-01809-1>
4. Tallapaneni, N.S., **Megala, V.** "Qualitative Analysis of Dual Material Gate (SiO<sub>2</sub>/HfO<sub>2</sub>) Underlapped on Drain Side TFET (DMGUD-TFET) Using Work Function Engineering". Silicon 14, 11667–11673 (2022). <https://doi.org/10.1007/s12633-022-01890-6>
5. Vishnupriyan, J., ChayaDevi, S.K., **Megala, V.** et al. Design and Qualitative Analysis of 5-nm Nanowire TFET with Spacer Engineering. J. Electron. Mater. 52, 2094–2099 (2023). <https://doi.org/10.1007/s11664-022-10182-z>

6. Karpagam., **Megala.V**, Y. Gowthami; B. Balaji; "Performance Improvement of High-K High Electron mobility Transistor for RF Applications". *International Journal of Engineering*, 36, 7, 2023, doi: 10.5829/ije.2023.36.01a.00

### Book Chapters

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1. "Brain Tumor Classification using CNN" Taylor and Fransics
2. "Perovskite Manganite added Polymer Nanocomposite for Multiple Input and Multiple Output System" Taylor and Fransics

### International Journal Publications: SCOPUS

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1. **V Megala**, MK Nath, S Jayadev, U Rezin "COVID-19 Social Distancing IoT Application Using Image Processing and Deep Learning" ECS Transactions 107 (1), 7779, 2022
2. **V Megala**, R Harshini, V Sumedhae "Next Generation Parking System with Computer Vision and Machine Learning", ECS Transactions 107 (1), 6735, 2022
3. Hari Priya, **V.Megala**, C.Pugazhendhi Sugumaran, "Analysis Of Nano Composite based Anti-corona coating on ACSR conductor", International Journal of Innovative Works in Engineering and Technology (IJIWET), ISSN Online:2455-5797, Vol.3 ,No:2, pp. 224-232, April 2017.(Impact Factor:2.12 )
4. Kannayeram G, **Megala V**, Prakash NB, Muniraj R, Sundar B, "Assessment of NR/EPDM Blend Ratio using Graphical Method" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12, October 2019 (Impact Factor: 5.54)
5. **Dr. Megala**, Aman dosi, Aditya singh tanwa, Om narayan pandey, "Drinking Water Activated By Plasma", International Journal Of Engineering Research And Development e- ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 16, Issue 6 , June 2020, PP. 01-09
6. **V. Megala**, R. Karpagam, G.K. Sathishkumar, B. Gopinath, P. Marish Kumar, M. Deva Brindha, "Investigation on corona performance of conductors using fabricated indoor corona cage", Materials Today: Proceedings, 2020, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.10.682>.

### Patents Published:

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1. Patent titled "E-commerce sales prediction and boosting using Machine Learning" Application Number- 2021100668,Australian Patent 2021
2. Patent titled " System and Design of Wind Induced pressure prediction on tall buildings for SMART city" Application Number- 202241047142, August 2022, Indian Patent Office.

3. Patent titled “Supervisory control, monitoring and data acquisition for remote Industry using Arduino” Application Number-202241074372, Journal Date:December2022, Indian Patent office.

### International Conference Publications:

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1. **V. Megala**, Manish Pandey, Prasanna Kumar, Vishal Sharma, “Investigation on Electrical properties of SR/MWCNT Composite Insulator” International E-Conference on Challenges and opportunities in renewable Energy, SMART systems and E-mobility (ICCORSE-2020), 30th and 31st July 2020.
2. **V.Megala**, C.Pugazhendhi Sugumaran “Effect of Radio Interference in 765kV Zebra Conductor with different Bundle Configurations” International Conference on Nascent Technologies in the Engineering Field (ICNTE-2017),IEEE xplore, DOI: 10.1109/ICNTE.2017.7947923, Electronic ISBN: 978-1-5090-2794
3. **V.Megala**, Dr. Sathya Bama, “Color Image Compression using self organization Kohonen Feature map”, National Conference at Kovilpatti – September 2003
4. TN Swathi, **V Megala**, S Banerjee, A Raj, A Dey,”Data Analytics software implementation for Accident Risk Factors based on IoT”2021 Second International Conference on Electronics and Sustainable
5. NS Tallapaneni, M Jayanthi, **M Venkatesan**, “IoT based Smart Health care system monitoring using Machine Learning Techniques’2021 International Conference on System, Computation, Automation
6. **V.Megala**, “Color Image Compression using edge adaptive quantization and binary tree correlational”, 4th National Conference on Advance Computing in PSG College of Technology at Coimbatore – Dec 10th – 11th 2004
7. **V.Megala**, “Color Image Compression using SOFM”, International Conference on Emerging Technologies in intelligent systems and control in Kumaraguru College of Technology at Coimbatore , Jan 5th – 7th 2005
8. **V.Megala**, “Speaker Identification using SOFM”, National Conference on “Emerging Trends in Industrial Automation & Control” in Adiyaman college of Engineering – August 25 2005

### Life Member: ISTE

### Funded Proposal:

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1. Shortlisted for DST Women Scientist Scheme-A entitled as, “Investigation of corona discharge Effect on Environmental Systems”, participated in final level presentation in North Cap University, Gurgaon on 15th October 2016, after multiple level of evaluation.

2. Submitted a proposal as Co-PI for DST, STRIDE component B “Design and Fabrication of High Gain Microstrip Patch Antenna using Perovskite Manganite added Polymer nanocomposite to mitigate Electromagnetic Radiation” on 30th September 2019.

**Dr.V.MEGALA**