Dr. Mala S

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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2023	Siddaganga Institute of Technology	Thin film sensors
2	M.Tech.	2012	Siddhartha Institute of Technology	Digital Electronics
3	B.E	2023	Kalpataru Institute of Technology	Electronics and Communication

Professional Experience

	Date (from-to)	Designation	Organization
1	2011-till date	Assistant Professor	SIT
2	2004-2010	Lecturer	SIT

(Please fill in reverse order. Current designation should be at the top)

Positions held

- Dept. Placement coordinator

Affiliations of Professional organizations

- Life member of ISTE

Awards and Honors

- Received best paper award in International Conference on Computer Science & Information Technology, CSIT-2011

- Received KSCST project of the year award during the Seminar and Exhibition held at SDM Institute of Technology, 13th and 14th July 2012
- Received KSCST project of the year award during the Seminar and Exhibition held at NMAM Institute of Technology, 11th and 12th August 2017

Courses Taught

Undergraduate Courses

1. Basic Electronics
2. Operating systems
3. Electrical and electronics measurements
4. Optical Networks
5. Information theory and coding
6. Embedded systems
7. Digital electronic circuits
8. Digital System Design Using VHDL
9. Foundations of Electronic Engg
10. Control systems
11. Digital System Design Using Verilog
12. Electronic Measurements
13. Network Analysis
14. Integrated Circuits and Applications
15. CMOS VLSI Design
16. Smart materials and smart systems
17. Introduction to C programming
18. Sensors for biomedical applications

Research Areas

- Thin film sensors

Publications

Journals

- Mala, S., H. K. E. Latha, and A. Udayakumar. "Design and Fabrication of Indium Tin Oxide Based Thin Film Piezoresistive Pressure Sensor." *Experimental Techniques* (2024): pp 1-13.
- Lalithamba, H. S., H. K. E. Latha, N. Narendra, and S. Mala. "Green Synthesis, Structural, Electrical and Catalytic Properties of Nano-MgO." *Journal of Electronic Materials* 53, no. 1 (2024), pp 30-40.
- Mala, S., H. K. E. Latha, and A. Udayakumar. "Influence of post-deposition annealing temperature on structural and electrical properties of TiW contact thin films." *Journal of the Korean Physical Society* 83, no. 3 (2023), pp 194-199.

- Mala, S., H. K. E. Latha, A. Udayakumar, and H. S. Lalithamba. "Green synthesis of ITO nanoparticles using Carica papaya seed extract: impact of annealing temperature on microstructural and electrical properties of ITO thin films for sensor applications." Materials Technology 37, no. 10 (2022), pp 1432-1438.
- Latha, H. K. E., S. Mala, and A. Udayakumar. "Investigation on Strain Sensitivity and Temperature Behaviour of Nitrogen Doped 3C-SiC Thin Films." *Journal of Mines, Metals and Fuels* (2022), pp 266-272.
- Mala, S., H. K. E. Latha, H. S. Lalithamba, and A. Udayakumar. "A study on the impact of tin concentration on microstructural, dielectric and conductivity properties of ITO nanoparticles." Materials Today: Proceedings 60 (2022), pp 839-848.
- Savitha, D., Latha, H.K.E., Lalithamba, H.S., Mala, S. and Jeppu, Y.V.,. Structural, optical and electrical properties of undoped and doped (Al, Al+ Mn) ZnO nanoparticles synthesised by green combustion method using terminalia catappa seed extract. Materials Today: Proceedings, 60,(2022), pp.988-997.
- Mala S, Haraluru Kamala Eshwaraiah Latha, Haraluru Shankaraiah Lalithamba, and Andi Udayakumar. "The Effect of Tin Concentration on Microstructural, Optical and Electrical Properties of ITO Nanoparticles Synthesized Using Green Method." *Iranian Journal of Materials Science & Engineering* 18, no. 4 (2021).

Conference Proceedings

- Mala, S., Reddy, C., Girish, M.L., NM, M.K. and Monoj, S.B., 2024, December. Design of a 32-Bit ALU Using Cadence tools. In 2024 4th International Conference on Mobile Networks and Wireless Communications (ICMNWC) (pp. 1-6). IEEE.
- Mala S., Lalithamba, H.S., Suman, H.V., Tejas, N.R., Vivek, G. and Rakshith, R., 2024, May. Synthesis and Characterization of Titanium dioxide Nanoparticles for Sensor Applications. In *2024 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)* (pp. 1-5). IEEE.
- Mala, S., Vidyashree, H.R. and Chanda, K., 2024, August. Yolo model-based license plate extraction and toll generation for smart parking systems. In *2024 2nd International Conference on Networking, Embedded and Wireless Systems (ICNEWS)* (pp. 1-7). IEEE.
- Mala, S., Lalithamba, H.S., Gowda, N., Manoja, K.N., Pavankumar, R. and Kishore, T.J., 2023, July. Synthesis and Characterization of Silver Nanoparticles for Gas Sensing Applications, *International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)* (pp. 1-6). IEEE.

- Mala, S., K. B. Ashwini, H. K. E. Latha, and A. Udayakumar. "Effect of deposition temperature on microstructure properties of SiC thin films deposited using RF magnetron sputtering." In AIP Conference Proceedings, vol. 2105, no. 1. AIP Publishing, 2019.