SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR-03

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

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PUBLICATIONS

INTERNATIONAL JOURNALS

1. **H.K.E Latha, Mala S and A. Udayakumar, (2022)**Investigation on Strain Sensitivity and Temperature Behaviour of Nitrogen Doped 3C-SiC Thin Films, Journal of Mines, Metals and Fuels, 70(8A): 266-272; 2022.
2. Raghavendra Mahadevaiah, Lalithamba Haraluru, Shankraiah, and **Latha Haraluru Kamalamma Eshwaraiah** (2022) "Combustion Synthesis of Nano Fe2O3 and its Utilization as a Catalyst for the Synthesis of *N*α-Protected Acyl Thioureas and Study of Anti-bacterial Activities", *Acta Chim. Slov.* 2022, *69*, 116–124
3. H.S. Lalithamba, M. Raghavendra, R. Bharatha, **H.K.E. Latha** and N. Bharath (2022) Nano CaO: Synthesis, characterization, and application as an efficient catalyst for the preparation of tetrazole analogues of protected amino acids, Scientia Iranica C (2022) 29(6), 3132-3141
4. D. Savitha , **H.K.E. Latha**, H.S. Lalithamba, S. Mala, Yogananda Vasudev Jeppu (2022) "Structural, optical and electrical properties of undoped and doped (Al, Al + Mn) ZnO nanoparticles synthesised by green combustion method using terminalia catappa seed extract", Journal of Materials Today: Proceedings. Vol 60, part 2, 2022, pp988-997.
5. S Mala, **H.K.E Latha**, Lalithamba H.S and A. Udayakumar (2021) *"*A study on the impact of tin concentration on microstructural, dielectric and conductivity properties of ITO nanoparticles", Journal of Materials Today: Proceedings. Vol 60, part 2, 2022, pp839-848
6. S Mala, **H.K.E Latha,** Lalithamba H.S and A. Udayakumar (2021) "The effect of Tin concentration on microstructural and electrical properties of ITO nanoparticles synthesized using Green synthesis" Iranian Journal of Materials Science and Engineering. *Vol. 18, Number 4, December 2021* pp 1-12
7. S Mala, **H.K.E Latha,** Lalithamba H.S and A. Udayakumar (2021) Green synthesis of ITO nanoparticles using Carica papaya seed extract: Impact of Annealing Temperature on Microstructure and Electrical Properties of ITO Thin films for Sensor Applications, Materials Technology: Advanced Performance Materials. 2022, VOL. 37, NO. 10, 1432–1438

8. K V Yatish, H S Lalithamba, R Suresh and **H K E Latha (2020)** Ochrocarpus longifolius assisted green synthesis of CaTiO3 nanoparticle for biodiesel production and its kinetic stud**y, Journal of Renewable Energy,** 147, pp 310-321**.**

9. **H.K.E Latha** and H S Lalithamba **(2018)** Synthesis and Characterization of Titanium Dioxide Thin Film for Sensor Applications, **Journal of Materials research express**, Volume No.5, Issue 3.

10. **H.K.E Latha,** A. Udayakumar, V.Siddeswara Prasad **(2015)**, "Microstructure and electrical properties of nitrogen doped 3C-SiC thin films deposited using methyltrichlorosilane", **Journal of Materials science in semiconductor processing**, Vol.29, PP 117- 123.

11. **H.K.E Latha,** A. Udayakumar, V.Siddeswara Prasad, **(2014)** "Effect of nitrogen doping on elastic modulus and hardness of 3C-SiC thin films deposited using methyltrichlorosilane", **Journal of Materials research express**, Volume No.1, PP 1-12, Jan-2014**.**

12. **H.K.E Latha,** A. Udayakumar, V.Siddeswara Prasad, **(2014)** " Effect of nitrogen doping on the electrical properties of 3C-SiC thin films for high temperature sensors applications", **Journal of Acta metallurgica sinica (English Letters),** Vol.27, No. 1, pp. 168-174. Jan-2014.

13. **H.K.E Latha,** A. Udayakumar, V.Siddeswara Prasad**, (2013)** Growth and effect of deposition pressure on microstructure and electrical properties of 3C-SiC thin films deposited using MTS single precursor**, International Journal of thin films science and technology,** Vol.2, No.3, pp. 163-170, Sept.2013.

14. **Latha H K E** and R J Stephen, **(2010)** "Development and Characterization of Nichrome strain gauge sensor for load applications", **International Journal of Advanced Research in Engineering and Technology (IJARET),** Vol. 1, No.1, pp 58-66**,** May-June 2010.

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1. Kumar Shubham, and **Latha H.KE** (2016) Gesture controlled wheelchair with object detection , **Journal of Instrumentation Society of India (ISOI)**, **Vol. 46, No.4, pp 156-158, December 2016.**

2. **Latha H K E**, A Udayakumar, V Siddeswara Prasad **(2016)** Effect of annealing temperature on microstructure and electrical properties of TiW thin films**, Journal of Instrumentation Society of India (ISOI)**, **Vol. 46, No.3, pp 104-106, September 2016.**

3. **H.K.E Latha,** A. Udayakumar, V.Siddeswara Prasad **(2013)** "Growth and characterization of undoped and nitrogen doped 3C-SiC thin films for sensor applications", **Journal of Instrumentation Society of India (ISOI),** Vol. 43, No.4, pp 247-249, Dec-2013.

4. **Latha H K E** and R J Stephen **(2010)** "Finite Modeling and Development of thin film strain gauge for Load measurement", **Journal of Instrumentation Society of India (ISOI),** Vol. 40, No.2, pp 153-155, June2010.

NATIONAL AND INTERNATIONAL CONFERENCES

1. R. Harini, **Latha. H.K.E** and Manjunatha C (2022)"Impact of Green Synthesized Copper Doped Nanostructured Molybdenum Oxide Flakes on Micro Structural, Electrical, and Electrochemical Properties" The Electrochemical Society, ECS Transactions, Volume 107, Number 1
2. R. Harini, Latha. H.K.E (2021). Impact of novel fuel extract variation on structural, electrical and electrochemical properties of nanostructured molybdenum oxide flakes, Journal of Materials Today: Proceedings, Volume 49, Part 3, 2022, Pages 568-575
3. P. Premakumari, H.K.E. Latha, G. Nagaraju (2021) Green synthesis of dimanganese trioxide nanoparticles using tamarind seed powder: Effect of tamarind seed powder concentration on the structural, electrical and electrochemical properties of dimanganese trioxide nanoparticles Journal of Materials Today: Proceedings, Volume 49, Part 3, 2022, Pages 554-558
4. R. Harini, **Latha. H.K.E** (2021) Impact of Copper incapacitating nanostructured MoO3 flakes as anode electrode for Li-ion batteries, "1" international conference on Advances in Materials Science (ICAMS-2021), 22nd -24th September 2021.
5. Kavya M and **Latha H K E** (2021), Automation of Health Care Modality's storage System Monitoring Process, **6th IEEE International Conference on Recent Trends on Electronics, Information, Communication& Technology(RTEICT-2021)**, 27" & 28th August 2021,
6. Ashwini K B, **H.K.E Latha** and Lalithamba H.S (2021), Structural and electrical characterization of ITO nanoparticles Synthesized by hydrothermal using polyethylene

glycol 400, **4th online international conference on Science and Engineering of Materials, July 19-22, 2021**

7. D.Savitha, **H.K.E Latha,** Lalithamba H.S and Yogananda Vasudev Jeppu (2021). Green Synthesis of ZnO nanoparticles using terminalia catappa seeds extract, **4th online international conference on Science and Engineering of Materials, July 19-22, 2021**
8. S Mala, **H.K.E Latha,** Lalithamba H.S, and A. Udayakumar (2021). A study on the impact of tin concentration on microstructural and electrical properties of ITO nanoparticles synthesized by green combustion method, **4th online international conference on Science and Engineering of Materials, July 19-22, 2021**
9. Ramya S, H M Kalpana and **Latha H K E** (2020) People Resource Management System (PRS), **International Conference on Frontiers in Engineering Science and Technology (ICFEST- 2020)** December 18th and 19th 2020, Yenepoya Institute of Technology, Moodbdri
10. S. Mala, K. B. Ashwini, **H. K. E. Latha**, and A. Udayakumar (2019), Effect of deposition temperature on microstructure properties of SiC thin films deposited using RF magnetron sputtering, **AIP Conference Proceedings**, 020023, 1-6
11. Sahana V**, Latha H K E,** Raju Bhandari **(2018),** Design of secure SMART card reader and Wi-Fi interface for point of sale terminal**, 3rd IEEE International conference on Recent Treands in Electronics, Information and communication Technology (RTEICT)** May 18th and 19th 2018
12. Nagamani S R, Latha H K E(2018), Design and implementation of remote smart parking assistance in automated vehicles, **National conference on Recent trends in electrical sciences,** 3rd March 2018, SIT, Tumkur, pp 53-58.
13. Chethan Kumara, Rashmika Unnikrishnan, Sai Krishna Peri, **Latha H K E,** H S Lalithamba **(2018),** Synthesis and structural characterization of Zinc Oxide nano materials. **National conference on Recent trends in electrical sciences,** March 2018, SIT, Tumkur, pp 113-116.
14. Shantala, Latha H K E, SV Mohanasundaram, Gokul Krishnan and Niyathi Shenoy **(2017),** An approach to extract text from water meter images using OpenCV-Python, **International Conference on signal, Image Processing communication and Automation ICSIPCA,** July 6th and 7th 2017, JSS Academy of Technical Education, Bangalore, pp.1068-1072.
15. **Latha H K E**, A Udayakumar, V Siddeswara Prasad **(2015)** Effect of annealing temperature on microstructure and electrical properties of TiW thin films, **National**

Symposium on Instrumentation (NSI-40), October 30th and 31st 2015, Kumaraguru College of Technology, Coimbattore, pp 93-94

16. Kumar Shubham, Ashutosh Kumar Tiwari, Abhishek Kesari, Ragini, **Latha H.KE** (2015) Gesture controlled wheelchair with object detection , **National Symposium on Instrumentation (NSI-40)**, October 30th and 31st 2015, Kumaraguru College of Technology, Coimbattore, pp 73-74.

17. Divyashree S V, Haryhitha K H, **Latha H K E.** Measurement of Vibration signals using Virtual Instrumentation Technology, **National Symposium on Instrumentation (NSI-40)**, October 30th and 31st 2015, Kumaraguru College of Technology, Coimbattore, pp 150-151.

18. **Latha H K E**, A Udayakumar, V Siddeswara Prasad **(2013)** "Growth and characterization of undoped and nitrogen doped 3C-SiC thin films deposited using methyltrichlorosilane for sensor applications", **National Symposium on Instrumentation (NSI-38)**, October 24-26, 2013, B.V.B.College of Engineering & Technology, Hubli, pp.104.

19. **Latha H K E,** A Udayakumar, V Siddeswara Prasad, **(2013)** "Structural and electrical properties of undoped and nitrogen doped 3C-SiC thin films deposited using methyltrichlorosilane", **International Conference on communication, VLSi and Signal processing (ICCVSP-2013)**, 20th -22nd Feb'2013,SIT, Tumkur, pp. 304-308.

20. **Latha H K E** and R J Stephen, **(2010)** "Finite Modeling and Development of thin film strain gauge for Load measurement", **International Conference on Instrumentation (ICI-2010),** 21st -23rd Jan'2010, Cummins College of Engineering for women, Pune.

21. R J Stephen, **Latha H K E** and H M Kalpana **(2010)** "Development of thin film strain gauge for Load measurement", **International Conference on Aerospace, Electronic Communication and Instrumentation (AECI-2010),** 6th -7th Jan'2010, V R Siddartha Engineering College, Kanur, Vijayawada.

22. R J Stephen, **Latha H K E** and H M Kalpana **(2009)** "Development of thin film strain gauge for force measurement", **International Conference on Advanced Manufacturing and Automation (INCAMA-09),** 26th-28th March 2009, Kalasalingam University, Kalasalingam.