

SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR-03
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

Publications of Dr. H M Kalpana

International Journal

1. Chaitra. C, H.M. Kalpana, H.S. Lalithamba, and C.M. Ananda,(2022) Structural, Optical and Electrical Properties of ATO Nanoparticles Synthesized by Combustion Method,” Journal of Mines, Metals and Fuels, vol. 70(8A), pp. 228–232, 2022.
2. T.R. Kishan chand, H. M. Kalpana, and H. S. Lalithamba, (2022) Green synthesis characterization and electrical properties of Iron doped vanadium oxide for strain gauges, Journal of Mines, Metals and Fuels, vol. 70(8A), p. 135-143, 2022.
3. C. Chaitra, H. M. Kalpana, C. M. Ananda, and H. S. Lalithamba, (2022) Green synthesis of tin oxide based nanoparticles using Terminalia bellirica seed extract: impact of operating temperature and antimony dopant on sensitivity for carbon dioxide gas sensing application,” Materials Technology, Vol. 00, no. 00, pp. 1–8, 2022.
4. T.R. Kishan chand, H. M. Kalpana, and H. S. Lalithamba (2022) Study on green synthesis characterization and electrical properties of cerium oxide (CeO₂)-doped vanadium pentoxide (V₂O₅) nanoparticles for strain gauges. Journal of Materials Science: Materials in Electronics, 33(21), 16942-16954, (2022).
5. Nikhil R & Dr. H M Kalpana (2021) IOT Based Pollution Monitoring System IN Urban area International Journal of engineering research & technology 05/09/2021
6. H M Kalpana ,V Siddeswara Prasad and T.N Satish (2019) Effect of Annealing on Hardness and Elastic Modulus of Invar36 Thin Films Deposited by Direct Current Sputtering for Strain Gauge Applications International Journal of Thin Films Science & Technology, Vol. 8, pp. 9-19, 1 Sep. 2019.
7. H M Kalpana ,V Siddeswara Prasad (2014) Development of the invar36 thin film strain gauge sensor for strain measurement Measurement Science and Technology(IOP Publishing),Vol.25,pp.1-7, 2014
8. H M Kalpana, V Siddeswara Prasad and M.M Nayak(2013) Influence of annealing and thickness on the electrical properties of invar36 thin film for Strain guage applications International Journal of Thin Films Science & Technology, Vol. 3, pp. 155-161, 2013.

National journal:

1. C Chaitra, H.M. Kalpana, H.S. Lalithamba & C.M. Ananda (2020) Synthesis of tin oxide nanoparticles using combustion method for gas sensing applications Journal of the Instrument Society of India dec 2020
2. H M Kalpana and Vandana (2019) Temperature Monitoring System for Automotive batteries during initial charging, Journal of the instrument society of India, Vol.49 No.3 PP97-100, September 2019
3. H.M Kalpana, V Siddeswara Prasad and Shyanahasan (2016) Virtual Instrumentation for level control, Journal of the instrument society of India, Vol.46 No.4 pp149-151
4. H.M. Kalpana and V. Siddeswara Prasad, (2013) Annealing studies on DC sputtered invar36 thin films, Journal of the Instrument Society of India, Vol.43, No. 4, pp.237-239. March 2013
5. H.M. Kalpana and R.J. Stephen (2010) Development of Thin film strain gauge sensor for strain measurement & indication using Lab VIEW, Journal of the Instrument Society of India, Vol.40 No. 1, March 2010, PP65-66.

International Conferences:

1. H N, RAKSHITHA; H M, KALPANA (2022) Image Processing for Facial Expression using Machine Learning Algorithm, IEEE 3rd global conference for advancement in technology 7th-9th oct 2022, Nagarjuna College of Engineering
2. Ankitha M R, H M Kalpana and Mr. Ritesh Goyal (2022) RAM Corruption in Level 3 Virtual Electronic Control Unit 2022 International Conference on Industry 4.0 Technology (I4Tech) Vishwakarma Institute of Technology, Pune, India. Sep 23-24, 2022
3. C Chaitra, H.M. Kalpana, H.S. Lalithamba & C.M. Ananda (2022) Structural, optical and electrical properties of ATO nanoparticles synthesized by combustion method international conference on recent developments in Mechanical engineering: ICRDME-22 ,24th & 25th june 2022
4. T.R. Kishan Chand, H.M. Kalpana, H.S. Lalithamba (2022) Green synthesis, characterization and electrical properties of Iron (Fe) doped vanadium oxide (V₂O₅) for

strain gauges International conference on recent developments in Mechanical engineering: ICRDME-22 ,24th & 25th June 2022

5. C Chaitra, H.M. Kalpana, C.M. Ananda & H.S. Lalithamba (2022) International conference on Advances in Chemical and Material Sciences International conference on Advances in Chemical and Material Sciences 14th -16th April 2022
6. T.R. Kishan chand, H. M. Kalpana, and H. S. Lalithamba (2022) Green synthesis of vanadium oxide nanoparticles for thin film based sensor application, Materials Science and Engineering, vol. 1225, no. 1, p. 012062, (2022)
7. Nandeesh T V & Dr. H M Kalpana (2021) Smart Multipurpose Agricultural Robot IEEE 7th international conference on Electronics, Computing and Communication Technologies IEEE CONECCT ,Bangalore 9-7-2021.
8. C Chaitra, H.M. Kalpana, H.S. Lalithamba & C.M. Ananda (2020) Synthesis of tin oxide nanoparticles using combustion method for gas sensing applications National Symposium on Instrumentation (NSI-42) 28th-29th December 2020
9. Harshita, H.M Kalpana (2018) Hardware Interface Test Launcher and Shutdown & Reboot Feature in Settings UI International conference on Recent Advances in Science, Engineering and Technology (ICRASET) held at Bangalore on 10th June 2018. Organised by Science Globe in association with IRAJ Research Forum
10. Shivashankara and H M Kalpana, (2017) Effect of enhanced trilateration algorithm on positioning accuracy. International conference on signal, image processing, communication and automation (ICSIPCA-2017) 6th & 7th July 2017, JSS Academy of Technical Education, Bengaluru.
11. Kavitha S C and H M Kalpana, (2017) Development of Human machine interface using Renesas synergy S7 Microcontroller for industrial Data monitoring. IEEE International Conference On Recent Trends in Electronics ,Information & Communication Technology (RTEICT-2017), May 19-20, 2017, Sri Venkateshwara college of Engineering, Bengaluru
12. H M Kalpana and V Siddeswara Prasad, (2013) Development of INVAR36 thin Films for Strain Gauge Applications, International Conference on Communication, VLSI & Signal Processing held at Siddaganga Institute of Technology, Tumkur. From 20th to 22nd February 2013, pp 300-303

13. 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, Electronics, Communications and Instrumentation–ASECI–2010, held at V R Siddhartha Engineering College, Kanuru, Vijayawada, during 6th – 7thJan 2010.
14. H.M Kalpana and R. John Stephen, (2010) LABVIEW for Strain Measurement International conference on Instrumentation-ICI-2009, held at Cummins College of Engineering for women, Pune during 21st - 23rd Jan 2010 pp 231
15. R.J. Stephen, Latha H K E and H M Kalpana, (2009) Development of thin film strain guage for force measurement, International Conference on Sensor and automation, held at Kalaslingam University, Kalasalingam during 21st – 22ndMarch 2009

National Conferences:

1. Chaitra C, Dr. H M Kalpana Dr. C M Ananda and Dr.H S Lalithamba (2019)), Synthesis of Tin Oxide Nanoparticles Using Combustion Method for Gas sensing applications NSI-42, National symposium on Instrumentation, December 23 & 29th, Organised by Instrument Society of India, DRDO and Kumarguru college of Technology,Coimbatore
2. H M Kalpana and Vandana (2019), Temperature Monitoring System for Automotive batteries during initial charging NSI-42, National symposium on Instrumentation, December 23 & 29th, Organised by Instrument Society of India, DRDO and Kumarguru college of Technology,Coimbatore
3. Arpitha K and H.M Kalpana, (2018) Design and implementation of power supply system for vehicle simulator National conference on Recent trends in Electrical Sciences 2018, Siddaganga Institute of Technology,Tumkur 3rd March 2018
4. H M Kalpana, V Siddeswara Prasad and ShayanHasan S (2015), Virtual Instrumentation for Level Control, National Symposium on Instrumentation (NSI-40) organized by Instrument Society of India & Department of Electronics and Instrumentation Engineering, Kumaraguru College of Technology, Coimbatore on 30th and 31st of October 2015.
5. Sujay S.A, Nagesha, Praveen Kumar, Sreenivas & H.M Kalpana, (2015) , Forest fire and smoke detection, National Symposium on Instrumentation (NSI-40) organized by Instrument Society of India & Department of Electronics and Instrumentation

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6. H M Kalpana and V Siddeswara Prasad, (2013) Annealing Effects on Electrical Properties of DC Sputtered Invar36 Thin Film for Strain Gauge Applications, National Symposium on Instrumentation (NSI-38) held at KLE Society's B V B College of Engineering & Technology, Vidyanagar, Hubli-580031, Karnataka. From 24th to 26th October 2013, pp 103.