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Ph.D	Thin Film based Temperature Sensors, from Panjab University		
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PhD Guiding	03		
M.Tech Guided	25		

List of Publication (for last Five years):

A) International Journals

- Fabrication and linearisation of conformable POMANI-Mn3O4 nanocomposite based thermistor for temperature monitoring applications in prosthetic gloves A Kumar, ML Singla, A Kumar, JK Rajput - Sensors and Actuators A: Physical, 285, 588-598, 2019.
- 2. SnO₂-Glycine Functionalised CNTs based electronic nose for detection of explosive materials, *Arvind Kumar*, *Jaspreet Kaur Rajput*, *Sukhvir Kaur*, *Priya Arora*, *Harminder Singh*, Sensor Letters, 14(7), 733-739 2016
- 3. Study of Zr_xZn_{0.5-x}Ni_{0.5}Fe₂O₄ 0≤x≤0.25: Synthesis, Structural, Magnetic and Electrical Properties, Jasmeen Saini, Rupesh Kumar, Jaspreet Kaur Rajput, Arvind Kumar, Journal of Magnetism and Magnetic Materials, Journal of Magnetism and Magnetic Materials 401, 770–774, 2016.
- 4. POMANI-Mn₃O₄ based thin film NTC thermistor and its linearization for overheating protection sensor, Arvind Kumar, Madan Lal Singla, Amod Kumar, Jaspreet Kaur Rajput, Materials Chemistry and Physics, 156, 150-162, 2015.
- 5. HCl/CSA doped POT-Mn₃O₄nanocomposites based conformable thin film temperature sensor for prosthetic hand gloves, Arvind Kumar, Madan Lal Singla, Amod Kumar, Jaspreet Kaur Rajput, Journal of Materials Science: Materials in Electronics, 26(3), 1838-1852, 2015.
- Designing of ALU using Vedic Multiplier for Single Precision IEEE754
 Standard Floating Point Numbers, Satnam Singh Shergill, Arvind Kumar,
 International Journal of Applied Engineering Research 10(12), 29357-29365,
 2015.
- 7. Enhanced BeeGA algorithm for route optimization in Vehicular Ad Hoc networks (VANETs), Daljeet Singh Motton, Arvind Kumar, International Journal of Applied Engineering Research 10(13), 32803-32812, 2015
- 8. Performance analysis of hybrid routing protocol for application in vehicular Ad Hoc networks, *Daljeet Singh Motton*, *Arvind Kumar*, International Journal for Research In Technological Studies, 2 (6), 50-54, 2015

- 9. A Review Report on Existing Routing Protocols in Vehicular Ad Hoc Networks (VANETS), Daljeet Singh Motton, Arvind Kumar, Int. Journal of Electrical & Electronics Engg. Vol. 2, Spl. Issue 1, 105-108, 2015
- 10. Carbon Nanotubes Based Sensor for Detection of Traces of Gas Molecules A Review, Arvind Kumar, Jaspreet Kaur Rajput, Sukhvir Kaur, Int. Journal of Electrical & Electronics Engg., Vol. 2, Spl. Issue 1, 2015
- 11. Design and Implementation of Optimized 4:1 Mux Using Adiabatic Technique Dikshant Kamboj, Arvind Kumar, Vijay, International Journal of Advance Research In Science And Engineering, Vol. No.3, Issue No.9, 98-108, 2014
- 12. Local positioning system using near field communication, Baldeep Singh, Arvind Kumar, Sabhyata, American International Journal of Research In Science, Technology Engineering & Mathematics, AIJRSTEM 14-778, 165-167, 2014
- 13. Optimized Conditional Privacy Preservation Protocol for NFC Applications using Genetic Algorithm, Baldeep Singh, Arvind Kumar, Sabhyata, International Journal of Computer Applications, Volume 102 Number 9, 7-11, 2014
- 14. Design of High Speed Full Adder using Improved Differential Split Logic technique for 130nm Technology and its implementation in making ALU, Gurleen Kaur, Arvind Kumar, Jatinder Singh, Internation Journal of Computer Applications, 40-47, 96(18), 2014.

B) International book

- 1. Chapter entitled "Analysis of Transfer Characteristic of Junctionless GaAs nanotube MOSFET with Hafnium Oxide Dielectric" in Advances in Intelligent Systems and Computing, Springer Publications, volume-93, pp473-479 *Raj Kumar*, *Arvind Kumar*, 2019
- 2. Chapter entitled "Polymer Nanocomposites-Materials for Sensor Technology" in book Engineering Applications of Nanoscience and Nanomaterials/ 197-216, Volume 757 of Material Science Forum, Trans Tech Publications, Switzerland, Arvind Kumar, Jaspreet Kaur Rajput, 2013

C) Research Area:

- 1. Sensor Electronics
- 2. Semiconductor Devices
- 3. Photovoltaics

D) List of submitted project for the implementation of research plans:

Sr.no.	Title of the project	Funding Agency (Budget)
1.	Lead Free Perovskite Cell for	STRIDE-UGC (49lakh)
	Harnessing Solar Energy	