


## Brief Biodata

**Name:** Dr. Vikash Sharma

<b>Designation:</b>	<b>Senior Technical Officer 1</b>	
<b>DP No. and Name:</b>	<b>3.03, Biomedical metrology section</b>	
<b>DU No. and Name:</b>	<b>3.0, Env. Sci. &amp; Biomedical metrology</b>	
<b>Email:</b>	<b>vicky@nplindia.org</b>	
<b>Date of Joining CSIR-NPL:</b>	<b>09.03.2006</b>	
<b>Phone (office)</b>	<b>011-45609362</b>	
<b>Mobile (optional)</b>		

### Research Area/ Interest

- Chemiresistive and field effect transistor (FET) biosensors based on carbon nanomaterials (CNT/Graphene) for biomedical applications.
- Fabrication of biochips (Lab-on-a-chip) that include Impedimetric, Amperometric, Potentiometric, Chemiresistive biosensor.
- Biomedical Metrology for defibrillator analyser and Infusion pump etc.

### Educational Qualifications

*(Please write latest qualification first)*

<b>Degree</b>	<b>Subject</b>	<b>University/ Institute</b>	<b>Year</b>
Ph.D	Physics	Delhi Technological University (DTU), Delhi	2017
M.Sc.	Physics	M.D.U, Rohtak (HR)	2003
B.Sc.	Physics, Maths, Computer Sci.	M.D.U, Rohtak (HR)	2001

### Academic / Research Experience

<b>Grade / Post</b>	<b>Institute</b>	<b>Duration</b>		<b>Research Field</b>
		<b>From</b>	<b>To</b>	
Senior Technical Officer 1	CSIR-NPL, N. Delhi	2018	Till date	Basic research related to Chemiresistive/FET sensor, Biosensors & Biomedical Metrology
Technical Officer	CSIR-NPL, N. Delhi	2006	2018	Research work related to biosensors, Microfluidics, Soft-lithography.

## No. of Publications

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
16	-	44	-	60

## Selected Publications

- Journal of Materiomics, Vol. 7, Issue 5, 904-919, 2021
- Applied Physics Letters, Vol. 109, Issue 24, 243504, 2016
- Material Research Express, 3, 035006, 2016
- Sensors & Transducers Journal, Vol. 197, Issue 2, 34-38, 2016
- Applied Physics Letters 104,043705, 2014
- Applied Physics Letters 103,203703, 2013

## Patents

- Chemiresistive biosensor for the quantitative detection of human cardiac biomarker and the process thereof  
Vikash Sharma, VK Tanwar, A.M. Biradar, Rajesh

## Current Activities

*(Not more than 100 words)*

Development of various types of biosensors and also working in the field of Biomedical Metrology i.e. Defibrillator analyzer, Infusion pump etc.

## Honour(s)/Award(s)/ Fellowship(s)

- Got best poster award in The 2nd Asian Symposium on Cutting-edge Biotechnology and Chemistry (2nd ASCBC) organized by Kyushu Institute of Technology & Kyushu Dental University held at Japan from 5-6th December 2019.
- Got best poster award in India-Japan Workshop on Biomolecular Electronics and Organic Nanotechnology for Environment Preservation (IJWBME-2018) organized by National Physical Laboratory, N.Delhi from 6-9<sup>th</sup> December 2018
- Got best poster award in India roadshow and Symposia series organized by Royal Society of Chemistry held at Indian Institute of Technology (IIT), Delhi, 2014.
- Got best poster award in the 25<sup>th</sup> Annual General Meeting of Material Research Society of India held at Indian Institute of Science (IISc), Bangalore, 2014
- Got best poster award in Conference on Recent Advance in Analytical Sciences held at Himachal Pradesh University, Shimla, 2010
- Got best poster award in Symposium on Recent trends in biophysics held at Banaras Hindu University (BHU), Varanasi, 2010.
- Got Merit in M.Sc. (Physics) and B.Sc. at University level

### **Contributions to AcSIR**

Contact Angle Measurement and Electrochemical impedance spectroscopy (EIS) techniques for characterization of materials as a part of coursework in curriculum of Ph.D students registered in AcSIR

### **Any other Information**

*(Not more than 100 words)*

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