


Brief Biodata

Name: Dr. Neeraj Chaudhary

Designation:	Technical Officer	
DP No. and Name:	4.01, Photovoltaic Metrology	
DU No. and Name:	4, Advanced Materials and Device Metrology	
Email:	chaudharyn@nplindia.org	
Date of Joining CSIR-NPL:	29th August, 2007	
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Research Area/ Interest

Fabrication and Characterization of Organic and Perovskite Solar Cells

Educational Qualifications

(Please write latest qualification first)

Degree	Subject	University/ Institute	Year
PhD	Solar Cells	DTU	2017
MS (ME)	Manufacturing	BITS, Pilani	2011
B. Tech.	Mechanical	IASE	2008

Academic / Research Experience

Grade / Post	Institute	Duration		Research Field
		From	To	
Technical Officer	CSIR-National Physical Laboratory	29 th August-2007	Till date	Organic and Perovskite Solar Cells

No. of Publications 14

No. of Publications in SCI Journals	No. of Publications in non-SCI Journals	No. of Publications in Conference Proceedings	Books	Total
14	-	-	-	14

Selected Publications

1. **Neeraj Chaudhary**, Rajiv Chaudhary, J. P. Kesari, AsitPatra, and Suresh Chand, Copper Thiocyanate (CuSCN): An Efficiency Solution-Processable Anode Interfacial Layer In Organic Solar Cells, *Journal of Materials Chemistry C*, 3 (2015) 11886.
2. **Neeraj Chaudhary**, J. P. Kesari, Rajiv Chaudhary, and Asit Patra, Low Band Gap Polymeric Solar Cells using Solution-Processable Copper Iodide as Hole Transporting Layer, *Optical Materials*, 58 (2016) 116.
3. **Neeraj Chaudhary**, Rajiv Chaudhary, J. P. Kesari, and Asit Patra, Effect of Composition Ratio of P3HT:PC₆₁BM in Organic Solar Cells: Optical and Morphological Properties, *Materials Research Innovations*, DOI: 10.1080/14328917.2017.1317061.
4. **Neeraj Chaudhary**, Rajiv Chaudhary, J. P. Kesari, and Asit Patra, An Eco-Friendly and Inexpensive Solvent for Solution Processable CuSCN as A Hole Transporting Layer in Organic Solar Cells, *Optical Materials*, 69 (2017) 367.
5. Vinay Gupta, **Neeraj Chaudhary**, Ritu Srivastava, Gauri Datt Sharma, Ramil Bhardwaj, and Suresh Chand, Luminescent Graphene Quantum Dots for Organic Photovoltaic Devices, *Journal of the American Chemical Society*, 133 (2011) 9960.

Patents: 1

Improved Bulk Heterojunction Solar Cells Based on Modified PTB7-PC₆₀BM

Inventors: Vinay Gupta, Vishal Bharti, **Neeraj Chaudhary**, Suresh Chand

Publication date: 06-03-2014

Patent number: WO2014033755 A1

Application number: PCT/IN2013/000519

Current Activities

(Not more than 100 words)

Working as a Team Officer into time targeting and Technology-Oriented project in area of OPV and Perovskite devices. My key job responsibility is fabrication and characterization of OPV devices.

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

Contributions to AcSIR

Membership of Professional Societies/ Institutions

Any other Information

(Not more than 100 words)