




Bhaskaracharya College of Applied Sciences (University of Delhi)

Sector II, Phase I, Dwarka, New Delhi – 110075

FACULTY PROFILE

Title	DR.	First Name	JITENDER	Last Name	KUMAR	Photograph
Designation		ASSISTANT PROFESSIR				
Department		ELECTRONICS				
Address		Department of Electronics, Bhaskaracharya College of Applied Sciences ,Sector -2, Phase –I, Dwarka, New Delhi 110075				
Contact Details		Mob : 9910941616				
Email Id		Jitender.kumar@bcas.du.ac.in , jitender_does@yahoo.co.in				
Educational Qualification		Subject		Institution		
Ph.D		Electronics		Department of Electronic Science, University of Delhi, South Campus		
M.Sc.		Electronics		Department of Electronic Science, University of Delhi, South Campus		
Research Interests/ Specialization						
Growth and Characterization of Nanomaterials for Solar cells, Light Emitting diodes, Sensors and Carbon nanotubes based devices.						
Teaching Interest						
Microprocessors (8085/8088 , 8086) and Microcontrollers , Engineering mathematics, Material Science, Semiconductors, Simulations based on Scilab/ Matlab/ LabVIEW						
Publications (Last Five Years)						
Year Publication		Title		Journal		Authors
2015		Enhancement in the performance of MWCNT:PMMA composite thin film ethanol sensor through appropriate nanotube functionalization		Material Science In Semiconductor Processing		A. Kaur, I. Singh, J.Kumar, C.Bhatnagar, S. K.r Dixit , P. K. Bhatnagar, P. C. Mathur, J. A. Covas and M. C. Paiva

2015	Essence, trends and proposed design for Microbial Sensing	IJSRD/ National Conference on Inspired learning	Tania, Srishti Prajapati, Sarika Jha, Sohil Jain, Tejpal Dhewa, Jitender Kumar, Amit Kumar
2014	Study of relaxation dynamics of photogenerated excitons in CuInS_2 quantum dots	MRS Communication	I.Singh, S.madan, A. Kaur, J.Kumar P. K. Bhatnagar , P.C.Mathur and S S Islam
2013	An Environment Friendly Highly Sensitive Ethanol Vapor Sensor Based on Polymethylethacrylate: Functionalized-Multiwalled Carbon Nanotubes Composite	Advance Science And Engineering Medicine	A Kaur,I Singh, J. Kumar, D Madhwal, P K Bhatnagra ,P C Mathur , A C Bernardo and M C Paiva
2012	Characterization of Quantum Dots of $\text{CdSe}_x\text{S}_{1-x}$ using XRD, UV-Vis absorption and Raman Spectroscopy measurements	International Journal of Nanoscience	J. Kumar, S. Madan, D. Madhwal, I. Singh, P. K. Bhatnagar , P.C.Mathur and S S Islam
2012	Bulk Hetrojunction formation with induced concentration gradient from a bilayer structure of P3HT: CdSe/ZnS Quantum Dots using Inter-Diffusion Process for developing high efficiency stable solar cell	Organic electronics	S K Dixit, S Madan, D Madhwal, J Kumar, I Singh, C S Bhatia, P K Bhatnagar and P C Mathur
2011	Colour Tuning and Enhanced performance of MEH-PPV based Polymer light Emitting Diodes by using CdSe/ZnS uncapped quantum Dots as dopants	Journal of Nanophotonics	S Madan, J Kumar, D.Madhwal, I.Singh,. P K Bhatnagar and P C Mathur
2011	Increasing the luminous efficiency of a MEH-PPV based PLED using salmon DNA and single walled carbon Nanotube	Journal of luminescence	D. Madhwal, I. Singh, J. Kumar, P.K. Bhatnagar and P.C. Mathur
2011	Effect of thermal annealing on the efficiency of P3HT:PCBM bulk heterojunction solar cells.	Journal of Nanophotonics	I. Singh, D. Madhwal, J.Kumar, S. Rait, C. Bhatnagar, I. Kaur, L.M. Bharadwaj, P.K. Bhatnagar and P.C. Mathur.
2011	Improvement in the luminous efficiency of MEH-PPV Based light emitting diodes using zinc oxide nanorodes grown by the electrochemical technique on ITO substract,	Physica Scripta	R B Gupta, J Kumar, D Madhwal, I Singh, I Kaur, L M Bhardwaj, S Nagpal, P K Bhatnagar and P C Mathur.
Conference Publications (Last Five Years)			
Yera	Title	Conference	Authors
2015	Essence, trends and proposed design for Microbial Sensing	IJSRD/ National Conference on Inspired learning	Tania, Srishti Prajapati, Sarika Jha, Sohil Jain, Tejpal Dhewa, Jitender Kumar, Amit Kumar
2013	Effect of confinement on electronic structure and electron phonon interaction in CdSSe Quantum dots	IWPSD 2013, 10-13 Dec, 2013, Amity University	Jitender kumar, S. Madan, I. Singh, A. Kaur, P K Bhatnagar and P C mathur
2013	Nanostructure Graphene and chemically functionalized multiwalled carbon nanotube based gas sensors	Indo-Canadian Symposium on Nano science and technology Feb 20-22, 2013	A Kaur, Jitender Kumar, I Singh, D Madhwal, A Kumari, N Prasad, P K Bhatnagra and P C Mathur
2011	<i>To study the effect of annealing on the optical properties of graphene oxide</i>	IWPSD Nagpur 2011	A Kumari, N. Prasad, Jitender Kumar , D Madhwal, P K Bhatnagar and P C Mathur

2011	<i>Fabrication and characterisation of P3HT-PCBM Quantum dot based solar cell</i>	IWPSD Nagpur 2011	S K Dixit, D madhwal, Jitender Kumar , I Singh , P K Bhatnagar and P C Mathur
2011	synthesis and characterization of II-VI compound semiconductor quantum dots for enhancing the electroluminescence of polymer based light emitting diodes	, ICMAT 2011 , Symposium EE, Singapore	S. Madan, Jitender Kumar , I. Singh, D. Madhwal, P. K. Bhatnagar and P.C.Mathur
Project (Minor/Major)			
Innovation Project (Minor) entitled “Development of wireless sensor for detection and real time monitoring of Microorganisms” funded by University of Delhi (2015-16).			
PI’s Dr Jitender Kumar, Dr Amit Kumar and Dr. Shalini Sehgal			
Any other information			
<p>Paper Reviewed</p> <ul style="list-style-type: none"> ✦ Journal of Material Science “A detailed examination of the growth of CdSe thin films through structural and optical characterization” (2012). ✦ International Journal of Physical Sciences” Synthesis of CdSe Quantum Dots and their impedance analysis (2010). <p>.....</p> <p style="text-align: center;">Administrative Assignments</p> <ul style="list-style-type: none"> ✦ Convener: AMC (2014-15) ✦ Liaison Officer of the College (from 2015) ✦ Convener: SC/ST Cell ✦ B. Tech Project Coordinator (2016-17) ✦ Member Core Committee NAAC ✦ Convener: CPC subcommittee Physical Sciences (2016-17) ✦ Convener : Special Categories Admission Enabling committee (2013-2015, 2016-2017) ✦ Teacher Incharge: Department of Electronics (2015-2017) <p>.....</p> <ul style="list-style-type: none"> ✦ Life Membership: The indian Science Congress Association (L26741) ✦ Life Membership: SSI (201503671) 			