


Applicant's Information

Department	Electronic Science	
Name	Chhavi Bhatnagar	
Category	Unreserved (UR)	

SUMMARY OF Marks (Out Of 100)

S.No.	Criteria	Maximum Marks	Marks Claimed	Marks Obtained
1	Academic Score	84	67.00	67.00
2	Research Publications	06	28.00	6.00
3	Experience	10	36.83	10.00
	Total Marks	100	131.83	83.00

1. Personal details

Full Name	Chhavi Bhatnagar	Gender	Female
Category	Unreserved (UR)	Nationality	Indian
Date of Birth	01-08-1976	Father's/Mother's Name	P.K. Bhatnagar
Marital Status	Single	Phone No	91--
Email	chhavijp90@gmail.com	Mobile No	-9818462426
Address for Correspondence	D214 ILa apartments Vasundhara enclave East Delhi, Delhi 110096, India	Permanent Address	D214 ILa apartments Vasundhara enclave East Delhi, Delhi 110096, India

2.1 Academic Qualifications

Examination	Name of Degree	Subject(s)	Overall Percentage*	Year	University/Institute	Marks
Secondary	CBSE	As Prescribed	1	1993	Sachdeva Public School	
Sr. Secondary	CBSE	Science Stream	1	1995	Geeta Bal Bharti school	

Stream		Faculty of Sciences / Engineering/ Agriculture / Medical / Veterinary Sciences				
Bachelor's Degree	B.Sc. (Hons)	Electronics	62.00	1998	Hansraj College, Delhi University	19
Master's Degree	M.Sc.	Electronics	72.80	2000	Jamia Millia Islamia	23
M.Phil./LL.M.	NA	NA	NA	NA	NA	NA
Ph.D.	Thesis/Dissertation Title : Theoretical and experimental investigation of CIS/CIGS materials for Solar Cells and Other Applications	University : Department of Electronic Science University of Delhi South Campus	Registration Date : 12-09-2000	Submission Date : 12-12-2002	Award Date : 12-05-2003	25

Salient features of your Ph.D. research work

This piece of work was carried out to make solar cells and optical memories. After literature survey it was decided CIGS material must be used for space applications because of its stability and applications in space satellites.

Si was used earlier in previous decades but it has its own drawbacks with respect to stability, efficiency and purification process. Si could only be used in terrestrial applications.

CIGS is more radiation hard. Solar cells made of this material dont let the layers when interact with alpha beta gamma radiations found in space

Whether Qualified UGC/CSIR NET/JRF

UGC-CSIR NET : 0
None/Not Applicable

3.1 Full-time Teaching Experience

#	Name of University/College/Institute/Organization	Designation	Status	Pay Scale/Consolidated salary	From	To	Effective Time Period	Marks
1	Maharaja Agrasen College University of Delhi	Assistant Professor	Ad-hoc	As per rules	31-10-2006	Till date	16 years+	31.5
2	Sri Venkateswara College University of Delhi	Assistant Professor	Ad-hoc	As per Rules	03-08-2005	30-10-2006	01 years, 02 months, 28 days	2.33
3	ARSD, University of Delhi	Assistant Professor	Ad-hoc	As per Rules	05-09-2000	03-05-2001	00 years, 07 months, 29 days	1.17

3.2 Full-time Research/Industry Experience (Post-doctoral Fellow, Research Associate, Research Scientist etc.)

#	University/Institute/Industry	Designation	Pay scale/consolidated salary	From	To	Time Period	Marks
1	Toyohashi University of Technology	Research Scholar	As per Rules	24-04-2002	31-03-2003	00 years, 11 months, 8 days	1.83

Research Papers in Peer-Reviewed or UGC listed Journals

#	Publication Type	Title of the Paper	Journal Name	Year
1	Peer Reviewed	A Novel A Novel method for the estimation of Surface Recombination velocity of Polycrystalline Solar Cells	Synthesis and Reactivity In Inorganic, Metal Organic and Nano-Metal Chemistry, Taylor and Francis	2008
2	Peer Reviewed	Utilization of Photoluminescence emission from single walled carbon nanotubes for DNA sequence detection	sensor letters	2014
3	Peer Reviewed	Structural and Thermal Analysis of a New Phase Change Optical Memory Material Ag-Sb-Te	Proc. of SPIE's International Symposium on Photonics and Applications SPIE	2001

#	Publication Type	Title of the Paper	Journal Name	Year
4	Peer Reviewed	Theoretical model for estimation of surface recombination velocity	Proc. International Workshop on the Physics of Semi- Conductor Devices	2001
5	Peer Reviewed	Effect of composition variation on the Properties of Ag-Sb-Te, A New Memory materials	Proc. International Workshop on the Physics of Semi- Conductor Devices	2001
6	Peer Reviewed	Kinetics of recombination mechanism in graded gap CIGS solar cells	Proc. International Workshop on the Physics of Semi- Conductor Devices	2001
7	Peer Reviewed	Development and Characterization of PCDTBT : CdSeQDs Hybrid Solar Cells , optics international conference	optics international conference	2014
8	Peer Reviewed	Effect of Thermal stress on Power Conversion Efficiency of PCDTBT:PC71BM Organic Solar Cells	IWPSD 2019	2019

#	Publication Type	Title of the Paper	Journal Name	Year
9	Peer Reviewed	Development of low cost Nanotube based Alcohol Sensor	International Conference on Materials for Advanced Technologies	2009
10	Peer Reviewed	New approaches to increase the efficiency of organic solar cells and to identify degradation mechanisms involved	International Conference on Materials for Advanced Technologies	2014
11	Peer Reviewed	Enhancement in the performance of multi-walled carbon nanotube :poly(methylmethacrylate) composite thin film ethanol sensors through appropriate nanotube functionalization	Elsevier Material Science in Semiconductor Processing	2015
12	Peer Reviewed	Improved Power Conversion Efficiency of Conducting Polymer Solar cells via incorporation of DNA CTMA Electron Blocking InterLayer	AIP 2019	2019

#	Publication Type	Title of the Paper	Journal Name	Year
1 3	Peer Reviewed	Computerized Setup to Assess the Performance of Electro chromic devices	5th International Conference on Advances in metrology	2005
1 4	Peer Reviewed	Fabrication and Characterization of PCDTBT: PC71BM composite organic Photovoltaic solar cells	5th international conference on advanced functional materials ICAFMES 24	2014
Other activities/responsibilities: (academic/administrative)			worked as assistant coordinator in IGNOU (07107)	
Any other relevant information, if not given above			Organised 1. Educational trips for students 2. Camping 3. Events of college (ECA committee) (Annual Activity Committee: AAC) 4. Invited lectures in AAC 5. Associated with Spic Macay Activities (hosted for many renowned artistes at our college like "Pdt. Hari Prasad Chaurasia, Ronu Majumdar ji , Ms. Rani Khanam ji , Padmshree Geeta Chandran Crafts workshop during	

#	Publication Type	Title of the Paper	Journal Name				Year
			VIRASAT series Feb 2020 – Feb 2022)				
Two References familiar with your academic work							
S No.	Full Name	Institutional Affiliation (Present/Former)	Designation	Address	Mobile / Phone No.	Email	
1	Prof Avinashi Kapoor	Department of Electronic Science University of Delhi	Professor	South Campus New Delhi 110021	9350571397	avinashi_kapoor@yahoo.com	
2	Prof. Sanjeev Kumar Tiwari	Maharaja Agrasen College, University of Delhi	Principal	Vasundhara Enclave , Delhi 110096	9811546564	principal@mac.du.ac.in	

Declaration

I have read the applicable guidelines, which are binding. I do hereby solemnly declare that the information given, the statements made and documents uploaded with this application form are correct and true to the best of my knowledge and belief.

Chhai.