Antik Ghosh PERSONALINFORMATION V Ė 3 **EDUCATION AND TRAINING** 31 Aug 2017-15May 2019 Master of Science in Nanotechnology (CGPA-9.22/10.00) Central University of Gujarat, Gandhinagar (India) University Ranking- 3rd Relevant Coursework-- Carbon Nanoscience and its applications - Synthesis and Characterization of Nanomaterials Nanotoxicology and biosafety (Cytotoxicity assays) Nanofabrication Nanomaterials in energy technology Industrial applications of Nanoscience Semiconductor Materials and applications Physics and Chemistry of Nanomaterials Dissertation Topic- "Investigation of Nanozymetic Activity of Cerium Incorporated MoSe, Nanostructures: An Approach for Colorimetric Sensing" with emphasis on the synthesis, characterization and sensing application. Term Paper- "Artificially Mimetic N₂ Photo-fixation: A review" Technical Skills- UV-vis spectrophotometer(hands-on), FTIR (hands-on), NMR(theory) DLS (hands-on) DRS (hands-on) DSC (hands-on), TGA(hands-on) Solar simulator(hands-on)

7 Jul 2014-8May 2017

Bachelor of Science (Honors) in Chemistry (Percentage-60.25/100, Div.-I)

Real-time UV-vis(hands-on)

Four Probe(hands-on)

and Microemulsion.

TEM (theory), SEM (theory), STM (theory)

- AFM (theory), XRD and XRPD, XPS and XFS (theory).

Bidhannagar College affiliated to West Bengal State University (Kolkata), Kolkata (India)

Synthesis – CVD, PVD, Hydrothermal, Microwave assisted, Reflux, Laser Ablation, Sol-Gel,

WORK EXPERIENCE					N/A
17 May 2018-9Jul 2018	Summer Research Fellow				
• *	Dr. Ujjal K Gautam, Mohali (India)				
	Indian Institute of Science Education and Research Mohali, (India)				
	Summer Project-				
	-Rietveld refinement using Fullprof				
	-Low concentration Ammonia detection produced from photocatalytic reduction of Nitrogen				
	-Research experience on Heterogeneous Catalysis and its application in Photocatalysis (photocatalytic dye degradation using Sillen-Aurivillius perovskite materials).				
PERSONALSKILLS					
Mother tongue(s)	Bengali				
Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listoning Reading Spoken interaction Spoken produc				s (1 4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Hindi	C2	C2	C2	C2	B2
English	C2	C1	C1	C2	C2
Communication skills	Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user <u>Common European Framework of Reference for Languages</u> Very good communication skills adapted by attending various conferences, seminars and Workshops as a student participant and Volunteer.				
Organizational / managerial skills	-good leadership qualities				
	-good organizational and managerial skills in hosting conferences and Symposia				
	-good team-leading skills gained as Team Captain in University level Football Championships and hosting seminars.				
Digital skilfs	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem- solving
	Proficient user	Proficient user	Independent user	Basic user	Independent user
	Digital skills - Self-assessment grid				
	-good command on office suite -Basic Python, MATLAB, C, Java				
	-Origin, Mercury, M	atch! 3, Gatan Dig	ital Micrograph, Fullp	rof, ChemDraw,	Crystal Explorer

-Actively take part in blood donation camps through the National Social Service Scheme (NSS)

-Road Trips, experienced biker and Driver, TT player, Footballer (College captain).

Otherskills

Conferences

Student participation and Volunteer (Host committee member)-Indian Nanoelectronics User Program (INUP) familiarization workshop on "Nanofabrication Technologies"

25th to 26th Oct. 2018

Participated- National conference on applied material science

6th to 7th Apr. 2018

Volunteered-24th Congress and General Assembly of the International Union of Crystallography (selected among the 27 students across India for a sponsored invite)

20th to 28th Aug. 2017

Participated-International Symposium on Facets of Chemistry in Biology

12th Jan. 2017

Participated- Seminar by Dr Gautam R Desiraju on "Crystallography for all"

Nov. 2016

Student Participation and Volunteer-National Seminar on "Enthralling Facets of Molecular

Manifestations in Chemical Sciences"

15th to 16th Sept. 2016

Manuscripts Under Process

-Nature Identical Photoinduced Water Splitting- a Review, under the supervision of Dr Manu Sharma.
-Investigation of Nanozymetic Activity of Cerium Incorporated MoSe₂Nanostructures: An Approach for Colorimetric Sensing, under the supervision of Dr Manu Sharma

References - Dr Ujjal K Gautam

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- Dr ManuSharma

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Central University of Gujarat

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