STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr	First Name	Shipi	ra Mital	Last Name	Gupta		
Designation		Assistant Professor						
School /Dept. Name		University School of Basic and Applied Sciences						
Address:		University School of Basic and Applied Sciences Guru Gobind Singh Indraprastha University Sector 16 C Dwarka, New Delhi 110078						
Phone No.		Office		011-25302416				
		Residence						
			Mobile		+91-9968135185			
Email	Email		1. shipra.n		il.com	2. shipra@ipu.	2. shipra@ipu.ac.in	
Web Page (if any)				,			
Areas of Interest/Specializati on		Microorganisms and Bionanocomposites Nanotoxicology Soft Synthetic Routes & Novel Nanomaterials Carbon Nanostructures Nanocomposites Synthesis of Nanomaterials & Introduction to Nanocomposites Physical Chemistry Nanoscience & Nanotechnology / Chemistry						
Experience (in years)		Total		22	22			
			у	-	-			
		Teaching		16	16			
		Researc	ch	22	22			
Educational Qualifications		UG		B. Sc. (Ist Div.) in 1997) in 1997		
		PG			M. Sc. In Chemistry (Ist Div. with Hons.) at Department of Chemistry, IIT Roorkee in 1999			
		Doctora		nanop Roork	photocatalytic action of surface-capped Q-Cd nanoparticles at Department of Chemistry, II Roorkee in 2003			
		Any oth	ny other Post Doctoral Research at National Institute of					

	Advanced Industrial Science and Technology
	Tsukuba Central 2, Tsukuba 305-8568, Japan
	from 2004 to 2006.
Research	1. Amit Singhania and Shipra Mital Gupta "Nanocrystalline
Publications in	ZrO ₂ and Pt-doped ZrO ₂ catalysts for low temperature CO
Journals	oxidation" Beilstein Journal of Nanotechnology, 8, 264–271
(last 5 years)	(2017). ISSN: 2190-4286, DOI:10.3762/bjnano.8.29
	2. Amit Singhania and Shipra Mital Gupta " Low temperature CO oxidation over Cu/Pt co-doped ZrO ₂ nanoparticles
	synthesized by solution combustion techniques" Beilstein
	Journal of Nanotechnology, 8, 1546–1552 (2017). ISSN: 2190-
	4286, DOI: 10.3762/bjnano.8.156
	3. Babita, S.K. Sharma, Shipra Mital Gupta , Arinjay Kumar
	Jain "Hydrodynamic studies of CNT nanofluids in helical coil
	heat exchanger" Materials Research Express, 4, 124002
	(2017). ISSN: 2053-1591. DOI: 10.1088/2053-1591/aa9bd2
	4. Amit Singhania and Shipra Mital Gupta "Nickel nanocatalyst
	ex-solution from ceria-nickel oxide solid solution for low
	temperature CO oxidation" Journal of Nanoscience and
	Nanotechnology, 18(7), 4614-4620 (2018). ISSN: 1533-4880,
	1533-4899, DOI: https://doi.org/10.1166/jnn.2018.15342
	5. Babita, S.K. Sharma, Shipra Mital Gupta , Arinjay Kumar
	Jain "Effect of Surfactant/CNTs Ratio on the Stability of CNT
	Nanofluids" Advanced Science Letters, 24(2), 812-816 (2018). ISSN: 1936-6612, 1936-7317, DOI:
	https://doi.org/10.1166/asl.2018.10849
	6. Babita, S.K. Sharma, Shipra Mital Gupta , Arinjay Kumar
	Jain "Effect of surfactant on CNT dispersion in polar media
	and thermal conductivity of prepared CNT nanofluids" ARPN
	Journal of Engineering and Applied Sciences, 13(4), 1202-
	1211 (2018). ISSN 1819-6608
	7. Amit Singhania and Shipra Mital Gupta " Low-temperature
	CO oxidation: Effect of the second metal on activated carbon
	supported Pd catalysts" Catalysis Letters, 148(3), 946-952
	(2018). ISSN 1011-372X, 1572-879X. DOI:
	https://doi.org/10.1007/s10562-018-2298-3
	8. Babita, S.K. Sharma, Shipra Mital Gupta "Synergic effect of
	SDBS and GA to prepare stable CNT nanofluids for industrial
	heat transfer applications" Materials Research Express, 5(5), 055511-055522 (2018). ISSN: 2053-1591,
	DOI: 10.1088/2053-1591/aac579
	9. Babita Sharma, S.K. Sharma, Shipra Mital Gupta "Modified"
	Two-Step Method to Prepare Long-Term Stable CNT
	Nanofluids" Arabian Journal for Science and
	Engineering, 43(11), 6155-6163 (2018). ISSN 2193-567X,
	2191-4281. DOI: https://doi.org/10.1007/s13369-018-
	3345-5
	10. Amit Singhania and Shipra Mital Gupta " CeO _{2-x} N _x Solid
	Solutions: Synthesis, Characterization, Electronic Structure
	and Catalytic Study for CO Oxidation" Catalysis Letters,
	148(7), 2001-2007 (2018). ISSN 1011-372X, 1572-879X. DOI:

- https://doi.org/10.1007/s10562-018-2419-z.
- 11. Amit Singhania and **Shipra Mital Gupta** "Highly active CeO₂ nanocatalysts for low-temperature CO oxidation" Russian Journal of Physical Chemistry A, 92(10), 1900-1906 (2018). ISSN 0036-0244, 1531-863X, DOI: 10.1134/S0036024418100321
- 12. Amit Singhania and **Shipra Mital Gupta** "Ce_{1-x}O₂Cu_x nanoparticles: synthesis, characterization and catalytic activity for phenol decomposition" Journal of Nanoscience and Nanotechnology, 19(8), 5220-5226 (2019). ISSN 1533-4880, 1533-4899, DOI: 10.1166/jnn.2019.16825
- 13. Nikita, Shipra Mital Gupta, S.K. Sharma, "Carbon **Properties** Nanotubes: Synthesis, and Engineering Applications" Carbon 29(5), Letters, 419-447 (2019). ISSN: 1976-4251, 2233-4998, ISSN 1976-4251, DOI: https://doi.org/10.1007/s42823-019-00068-2
- 14. Kriti Singh, S K Sharma, **Shipra Mital Gupta**, "Preparation of long duration stable CNT nanofluid using SDS" Integrated Ferroelectrics, 204(1), 11-22 (2020). ISSN: 1058-4587 Online ISSN: 1607-8489, DOI: 10.1080/10584587.2019.1674981
- 15. Babita, S.K. Sharma, **Shipra Mital Gupta** "Experimental studies on pressure drop/friction factor of CNT nanofluids flowing through helical coils and development of a new empirical correlation" Journal of Dispersion Science and Technology 41(4), 607-617 (2020). ISSN: 0193-2691, 1532-2351, DOI: 10.1080/01932691.2019.1610420
- 16. Nikita, **Shipra Mital Gupta,** S.K. Sharma, "Characterization and dispersion stability of water based Cu-CNT hybrid nanofluid without surfactant" Microfluidics and Nanofluidics 25(2), (2021). ISSN: 1613-4982, DOI: https://doi.org/10.1007/s10404-021-02421-2
- 17. Babita, S.K. Sharma, **Shipra Mital Gupta**, "Experimental studies of f-CNT nanofluids in a helical coil heat exchanger" Arabian Journal for Science and Engineering (2021). ISSN 2193-567X, 2191-4281. DOI: 10.1007/s13369-021-05573-z
- 18. Priyanka, **Shipra Mital Gupta,** S.K. Sharma, "A review on stabilization of carbon nanotube nanofluid" Journal of Thermal Analysis and Calorimetry (2021). ISSN 1388-6150, 1572-8943. DOI: https://doi.org/10.1007/s10973-021-10999-6

Papers Published in Conference Proceedings (last 5 years) Books Authored/Book Volume Chapters	 Nikita, Shipra Mital Gupta, S.K. Sharma, "Preparation of stable metal/COOH-MWCNT hybrid nanofluid" Materials Today: Proceedings 36(3), 649-656 (2021). ISSN: 2214-7853, DOI: https://doi.org/10.1016/j.matpr.2020.04.492 Kriti Singh, S. K. Sharma, Shipra Mital Gupta, "An experimental investigation of hydrodynamic and heat transfer characteristics of surfactant-water solution and CNT nanofluid in a helical coil-based heat exchanger" Materials Today: Proceedings 43(6), 3896-3903 (2021). ISSN: 2214-7853, DOI: https://doi.org/10.1016/j.matpr.2020.12.1233 Shipra Mital Gupta, Contributing Author in "Engineering Chemistry", Wiley India Pvt. Ltd. (2011). ISBN: 978-81-265-1988-0. Risal Singh and Shipra Mital Gupta "Introduction to Nanotechnology", Oxford University Press (2016). ISBN-10: 019945678X, ISBN-13: 978-0199456789. Shipra Mital Gupta, Priyanka Yadav and S. K. Sharma "Synthesis and Properties of Nano-Surfactants" in Surfactants from Renewable Raw Materials, eds. Divya Bajpai Tripathy, Anjali Gupta, Arvind Kumar Jain and Anuradha Mishra, CRC Press, Taylor & Francis Group (2022). ISBN 978-0-367-70165-9(hbk), ISBN 978-0-367-70205-2(pbk) ISBN 978-1-003-14487-8(ebk), DOI: 				
No. of Conferences	10.1201/9781003 National	Attended 26		Organized 3 as member of organizing committee	
	International	20			
Research Guidance	Awarded	PG	M. Phil	Doctorate	
		~40			
	Undergoing			4	
Research Projects	Completed	Principal Investigator of SERC Fast Track Research Project (2008-2012) titled "Synthesis and characterization of coupled semiconductor nanoparticles for photodegradation of pesticides" of Rs 19,22,800/- for a duration of 3 years			
	Undergoing	Principal Investigator of FRGS grant – yearly, since 2016 till date			
Awards & Distinctions	1. Young Scientist Award from Department of Science & Technology, Govt. of India under SERC Fast Track				

	 Scheme (2008). Visiting Scientist, National Institute of Advanced Industrial Science and Technology, Japan (Jun 2006 to Aug 2006) with Financial Award from Marubun Research Promotion Foundation, Japan. Post doctoral research as AIST Research Staff at National Institute of Advanced Industrial Science and Technology, Japan (2004 to 2006). Awarded First-Khosla Research Prize by IIT Roorkee in 2002. Topped the All India entrance exam for M.Sc. in Chemistry at University of Roorkee (IIT Roorkee) in 1997.
Administrative Assignments Handled	 Involved with Srijan Club since 2011, Currently Coordinator Dance Club Convener Dance Events in Annual cultural event 'Anugoonj' Member of Indraprastha University Internal Quality Assurance Cell (IIQAC) since 29/01/2020 Member Board of Studies (26/08/2016 to 25/08/2018) & Member School Research Committee Training & Placement Coordinator Alumni Coordinator Member of various School level Committees from time to time: School Research Committee, Web Updation/Annual Report/ Prospectus/ UFocus/ NAAC Committee, Library Committee, Store/ Purchase/Estate Committee, Budget Committee, Research Coordination Committee, Syllabus Modification Committee, Admission Committee NST/ PhD, Practical Exam Committee NST, Brochure Committee, In-charge NST / Chemistry lab, Returning Officer for conducting election of Students council.
Association with Professional Bodies	 Life Member, Indian Society of Radiation and Photochemical Sciences (ISRAPS), BARC Mumbai, India (Membership No. LM-324). Life Member, Society of Materials Chemistry (SMC), BARC Mumbai, India (Membership No. LM-986).
Any other Achievements	 Delivered many Invited and Keynote Talks at International Conferences / venues. Evaluated many PhD Thesis as External Examiner at Anna University, Loyola College Chennai, Ansal University, University of Madras Reviewer of many International Journals