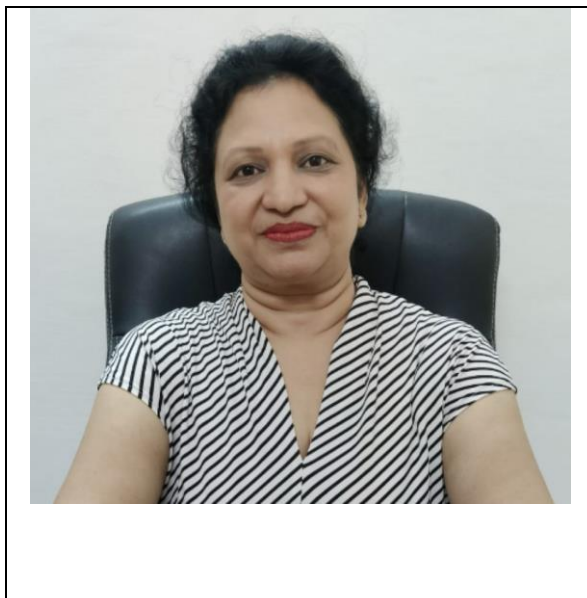




Dr. Jyoti Mittal

Designation: Assistant Professor

Qualification: M.Sc., Ph.D.

Department: Chemistry

Research Topic: Water Treatment

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Subjects Taught	
U.G	Engineering Chemistry
	Environmental Science
P.G	Analytical Chemistry

Teaching Experience				
Organization	Start Date	End Date	Designation	Nature of Work
MANIT, Bhopal	28.12.2018	Till Date	Assistant Professor	Teaching & Research

Ph.D. Supervised/Ongoing			
Name of the Student	Topic	Year of Award	Co-Supervisor (if any)
Asna Mariyam	Studies on the Removal of Some Toxic Dyes Using a Novel Adsorbent – Ordered Mesoporous Carbon	2022	-
Bharti Gaur	Removal of Some	Ongoing	-

	Hazardous Dyes Using Natural and Synthetic Adsorbents		
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Lab Details		
Device or Software	Utilization	Small Picture
Ultrasound Sonicator Probe		
Microwave synthesizer		
Water Bath with Shaker		
Oil Bath		
Muffle Furnace		

Sponsored Research Projects (Completed/Ongoing)				
Title	Sponsoring Agency	Duration	Amount	Co-PI (if any)
Design and Evaluation of Nanostructured Materials for Wastewater Treatment	MHRD, New Delhi	March 2019 to September 2023	66.12 Lakh	Dr. Alok Mittal Dr. Richard Baker Dr. A.K. Sharma Dr. Paul White
Reinforcing Research Links in Water Treatment and Renewable Energy	Engineering and Physical Sciences Research Council (EPSRC), United Kingdom	January 2022 to July 2022	£ 9,900	Dr. Alok Mittal Dr. Richard Baker
Synthesis of Cu-MOFs by Three Different Methods, Characterization and Comparison of their Dye Adsorption Abilities	MANIT, Bhopal (Seed Money)		5.00 Lakh	

Major Consultancy Projects				
Title	Sponsoring Agency	Duration	Amount	Co-Investigator (if any)

Publication						
Authors	Title	Journal	Vol. No. Page No.	Year	SCI/Scopus	Impact Factor
Bharti Gaur, Jyoti Mittal, Lalita Meena, Alok Mittal & Richard T. Baker	Adsorptive removal of a triphenylmethane dye from its aqueous solutions using a biosorbent	International Journal of Phytoremediation	DOI: 10.1080/15226514.2025.2581818	2025	SCI	3.1
Nidhi Rai, Aazad Verma, Santosh Kumar, Aparna Kesharwani, Jyoti Mittal, Charu Arora	Affordable sequestration of basic fuchsin using ferrocene impregnated iron-based metal-organic frameworks	Particulate Science and Technology	https://doi.org/10.1080/02726351.2025.2567434	2025	SCIE	1.5
C Arora, N Rai, A	Adsorptive removal	Chemical Papers	https://doi.org/10.1080/02726351.2025.2567434	2025	Scopus	2.5

Verma, S Kumar, A Kesharwani, J Mittal	of malachite green dye using ferrocene incorporated iron-based metal–organic framework: A sustainable approach to wastewater treatment		org/10.1007/s11696-025-04227-w			
C. Arora, A. Verma, S. Soni, S. Kumar, A. Kesharwani, N. Rai, J. Mittal, D.K. Verma	Recent advances in sequestration of dyes using metal–organic frameworks	Chemical Papers	https://doi.org/10.1007/s11696-025-04025-4	2025	Scopus	2.5
B. Gaur, J. Mittal, H. Hassan, Alok Mittal, R. Baker	Ordered Mesoporous Carbon as Adsorbent for the Removal of a Triphenylmethane Dye from its Aqueous Solutions	Molecules	29, 4100	2024	SCIE	4.6
B. Gaur, J. Mittal, H. Hassan, Alok Mittal, R.T. Baker	Removal of Hazardous Aniline Blue Dye using a Potential Biosorbent – Hen Feather	Journal of the Indian Chemical Society	101, 101322	2024	SCIE	3.4
Sanju Soni, Nidhi Rai, Jyoti Mittal, Charu Arora	Metal-organic frameworks for wastewater treatment	Metal Organic Frameworks: Fundamentals to Advanced, Elsevier	Chapter 15, 311 – 324	2024		
B. Gaur, J. Mittal, R.T. Baker, S.A.A. Shah and Alok Mittal	Sequestration of an Azo Dye by a Potential Biosorbent: Characterization of Biosorbent, Adsorption Isotherm and Adsorption Kinetic Studies	Molecules	29, 2387	2024	SCIE	4.6
Iqbal Ansari, Maha M El-Kady, Alaa El Din Mahmoud, Charu Arora, Aazad Verma, Ravi Kumar Rajarathinam, Priyanka Singh, Dakeshwar Kumar Verma, Jyoti Mittal	Persistent pesticides: Accumulation, health risk assessment, management and remediation: An overview	Desalination and Water Treatment	317, 100274.	2024	SCIE	1.0
Sanju Soni, Nidhi Rai, P. K. Bajpai, Jyoti Mittal,, Charu Arora	Enhanced sequestration of an acidic dye on novel bimetallic metal-organic framework	Journal of Dispersion Science and Technology	45,107-116	2023	SCIE	1.9
Sanju Soni, Nidhi Rai, P. K. Bajpai, Jyoti Mittal,, Charu Arora	Biosorption study of basic dye using highly porous aerial part of widely growing weed <i>Chenopodium album</i>	Desalination and Water Treatment	314, 276 – 285.	2023	SCIE	1.0
Jyoti Mittal, Rais Ahmad, Mohammad	A Novel, Eco-Friendly Bio-	International Journal of	24(8), 796 - 807	2022	SCIE	3.1

Osama Ejaz, Asna Mariyam, Alok Mittal	Nanocomposite (Alg-Cst/Kal) for the Adsorptive Removal of Crystal Violet Dye from its Aqueous Solutions	Phytoremediation				
H. Daraei, Alok Mittal, K. Toolabian, J. Mittal and A. Mariyam	Study on the biodegradability improvement of 2,4 dinitrophenol in wastewater using advanced oxidation/reduction process with UV/SO ₃ /ZnO	Environmental Science and Pollution Research	30, 22273–22283	2022	SCI	5.8
Jyoti Mital, C. Arora and Alok Mittal	Application of Biochar for the Removal of Organic Dye - Methylene Blue from Aquatic Environment: A Review	Book Biomass Derived Materials for Environmental Application	29 – 76	2022		
P. Dutta, C. Arora, S. Soni, Jyoti Mittal	Metal Organic Frameworks for Detection and Adsorptive Removal of Pesticides	Book Sustainable Material for Sensing and Remediation of Noxious Pollutants	329 – 340	2022		
Jyoti Mital	Recent progress in the synthesis of Layered Double Hydroxides and their application for the adsorptive removal of dyes: A review	Journal of Environmental Management	295, 113017	2021	SCI	8.4
J. Mittal, A. Mariyam, F. Sakina, R.T. Baker, A.K. Sharma and Alok Mittal	Efficient Batch and Fixed-Bed Sequestration of a Basic Dye using a Novel Variant of Ordered Mesoporous Carbon as Adsorbent	Arabian Journal of Chemistry	14, 103186	2021	SCI	5.2
A. Patel, S. Soni, J. Mittal, Alok Mittal and C. Arora	Sequestration of Crystal Violet from Aqueous Solution using Ash of Black Turmeric	Desalination and Water Treatment	220, 342 – 352.	2021	SCI	1.0
P. Saharan, V. Kumar,	Efficient Ultrasonic	Separation	56(17), 2895 –	2021	SCI	2.3

Jyoti Mittal, V. Sharma, A.K. Sharma	Assisted Adsorption of Organic Pollutants Employing Bimetallic-Carbon Nanocomposites	Science Technology	2908			
Jyoti Mittal, R. Ahmed, A. Mariyam, V.K. Gupta, A. Mittal	Expeditious and enhanced sequestration of heavy metal from aqueous environment by Carica papaya peel carbon (PPC): A green and low cost adsorbent	Desalination and Water Treatment	210, 365 – 376.	2021	SCI	1.0
A. Mariyam, Jyoti Mittal, F. Sakina, R.T. Baker, A. K. Sharma, Alok Mittal	Batch and Bulk Adsorptive Removal of Anionic Dye using Metal/Halide-Free Ordered Mesoporous Carbon as Adsorbent	Journal of Cleaner Production	321, 129060	2021	SCIE	10.0
A. Mariyam, Jyoti Mittal, F. Sakina, R.T. Baker and A.K. Sharma	Adsorption Behaviour of Chrysoidine R Dye on a Metal/Halide-Free Variant of Ordered Mesoporous Carbon	Desalination and Water Treatment	223, 425 – 433.	2021	SCI	1.0
B. Haddad, Alok Mittal, J. Mittal, A. Paolone, D. Villemain, D. Mansour, M. Goussein, H. Asmaa, H. Zineb, M. Boumediene, El H. Belarbi	Synthesis and Characterization of Egg Shells Modified by Ionic Liquids	Chemical Data Collections	33, 100717	2021	Scopus	2.7
Jyoti Mittal, Rais Ahmad and Alok Mittal	Kahwa Tea (Camellia sinensis) Carbon, a Novel and Green Low Cost Adsorbent for the Sequestration of Titan Yellow Dye from its Aqueous Solutions	Desalination and Water Treatment	227, 404 – 411.	2021	SCI	1.0
A. Mariyam, Jyoti Mittal, F. Sakina, R.T. Baker and A.K. Sharma	Fixed-Bed Adsorption of the Dye Chrysoidine R on Ordered Mesoporous Carbon	Desalination and Water Treatment	229, 395–402	2021	SCI	1.0

C. Arora, S. Soni, P.K. Bajpai, Jyoti Mittal, A. Mariyam	Dye removal from waste water using metal organic frameworks	Book Management of Contaminants of Emerging Concern (CEC) in Environment	375–388	2021		
S. Soni, P.K. Bajpai, Jyoti Mittal and C. Arora	Utilization of cobalt doped Iron based MOF for enhanced removal and recovery of methylene blue dye from waste water	Journal of Molecular Liquids	314, 113642	2020	SCI	5.2
Charu Arora, Pramod Kumar, Sanju Soni, J. Mittal, Alok Mittal, Bhupender Singh	Efficient Removal of Malachite Green Dye from Aqueous Solution Using Curcuma Caesia Based Activated Carbon	Desalination and Water Treatment	195, 341 – 352.	2020	SCI	1.0
V.K. Gupta, S. Agarwal, R. Ahmad, A. Mirza, Jyoti Mittal	Sequestration of toxic congo red dye from aqueous solution using ecofriendly Guar gum/ activated carbon nanocomposite	International Journal of Biological Macromolecules	158, 1310 – 1318	2020	SCI	8.5
Jyoti Mittal	Permissible Synthetic Food Dyes in India	Resonance – Journal of Science Education (Springer)	25, 567 – 577.	2020	SCI	0.4
Sanju Soni, Parmendra Kumar Bajpai, Dipti Bharti, Jyoti Mittal, Charu Arora	Removal of crystal violet from aqueous solution using iron based metal organic framework	Desalination and Water Treatment	205, 386 – 399.	2020	SCI	1.0
C. Arora, S. Soni, S. Sahu, Jyoti Mittal, P. Kumar, P.K. Bajpai	Iron based metal organic framework for efficient removal of methylene blue dye from industrial waste	Journal of Molecular Liquids	284, 343 – 352.	2019	SCIE	5.2
I. Anastopoulos, Alok Mittal, M. Usman, Jyoti Mittal, G. Yu, A. Núñez-Delgado, M. Kornaros	A review on halloysite-based adsorbents to remove pollutants in water and wastewater	Journal of Molecular Liquids	269, 855 – 868	2018	SCIE	5.2

Alok Mittal, Meenu Teotia, R.K. Soni and Jyoti Mittal	Applications of Egg Shell and Egg Shell Membrane as Adsorbent: A Review	Journal of Molecular Liquids	223, 376 – 387.	2016	SCIE	5.2
Mu Naushad, Anees A Ansari, Zeid A ALOthman, Jyoti Mittal	Synthesis and characterization of YVO ₄ :Eu ³⁺ nanoparticles: kinetics and isotherm studies for the removal of Cd ²⁺ metal ion	Desalination and Water Treatment	57(5), 2081 – 2088	2016	SCIE	1.0
H. Daraei, Alok Mittal, M. Noorisepehr, J. Mittal	Separation of Chromium from Water Samples Using Egg Shell Powder as a Low-Cost Sorbent: Kinetic and Thermodynamic studies	Desalination and Water Treatment	53(1), 214 – 220.	2015	SCIE	1.0
Jyoti Mittal, Alok Mittal	Hen Feather, A Remarkable Adsorbent for Dye Removal	Book Green Chemistry for Dyes Removal from Wastewater	Chapter 11, 409 – 457	2015		
Alok Mittal, Vijay Thakur, Jyoti Mittal, Harsh Vardhan	Process Development for the Removal of Hazardous Anionic Azo Dye Congo-Red from Wastewater by Using Hen Feather as Adsorbent	Desalination and Water Treatment	52(1-3), 227–237	2014	SCIE	1.0
Hasti Daraei, Alok Mittal, Jyoti Mittal, Hosein Kamali	Optimization of Cr(VI) Removal onto Biosorbent Eggshell Membrane: Experimental & Theoretical Approaches	Desalination and Water Treatment	52(7-9), 1307 – 1315.	2014	SCIE	1.0
Jyoti Mittal, Damodar Jhare, Harsh Vardhan, Alok Mittal	Utilization of Bottom Ash as a Low-Cost Sorbent for the Removal and Recovery of a Toxic Halogen Containing Dye Eosin Yellow	Desalination and Water Treatment	52(22-24), 4508– 4519.	2014	SCIE	1.0
Rajeev Jain, Pooja	Adsorption kinetics	Desalination and	52(40-42),	2014	SCIE	1.0

Sharma, Shalini Sikarwar, Jyoti Mittal, Deepak Pathak	and thermodynamics of hazardous dye Tropaeoline 000 onto Aeroxide Alu C (Nano alumina): A non-carbon adsorbent	Water Treatment	7776– 7783.			
Alok Mittal, D. Jhare, J. Mittal	Adsorption of Hazardous Dye Eosin Yellow from Aqueous Solution Waste Material De- Oiled Soya: Isotherm, Kinetics & Bulk Removal	Journal of Molecular Liquids	179, 133 – 140	2013	SCIE	5.2
Jyoti Mittal, Vijay Thakur, Harsh Vardhan, Alok Mittal	Batch Removal of Hazardous Azo Dye Bismark Brown R using Waste Material Hen Feather	Ecological Engineering	60, 249 – 253.	2013	SCI	4.1
V.K. Gupta, Alok Mittal, D. Jhare, J. Mittal	Batch and Bulk Removal of Hazardous Colouring Agent Rose Bengal by Adsorption over Bottom Ash	RSC Advances	2(22), 8381 - 8389	2012	SCIE	4.6
Alok Mittal, Jyoti Mittal, Arti Malviya and V.K. Gupta	Removal and recovery of Chrysoidine Y from Aqueous Solutions by Waste Materials	Journal of Colloid & Interface Science	344, 497– 507.	2010	SCI	9.7
Alok Mittal, Jyoti Mittal, Arti Malviya, D. Kaur and V.K. Gupta	Adsorption of hazardous dye Crystal Violet from wastewater by waste materials	Journal of Colloid & Interface Science	343, 463– 473	2010	SCI	9.7
Alok Mittal, Jyoti Mittal, Arti Malviya, D. Kaur, V.K. Gupta	Decoloration Treatment of a Hazardous Triaryl Methane Dye, Light Green SF (Yellowish) by Waste Material Adsorbents	Journal of Colloid & Interface Science	342(2), 518–527	2010	SCI	9.7
Alok Mittal, R. Jain, Jyoti Mittal, M. Shrivastava	Adsorptive Removal of Hazardous Dye Quinoline Yellow from Waste Water Using Coconut-Husk	Fresenius Environmental Bulletin	19(6), 1 – 9.	2010	Scopus	0.236

	as Potential Adsorbent					
Alok Mittal, R. Jain, S. Varshney, S. Sikarwar, J. Mittal	Removal of Yellow ME 7 GL from Industrial Effluent Using Electrochemical and Adsorption Techniques	International J. Environment & Pollution	43(4), 308 – 323	2010	Scopus	0.3
Alok Mittal, Jyoti Mittal, Arti Malviya and V.K. Gupta	Adsorptive Removal of Hazardous Anionic Dye "Congo red" from wastewater using waste materials and recovery by desorption	Journal of Colloid & Interface Science	340(1), 16–26.	2009	SCI	9.7
Alok Mittal, D. Kaur, Arti Malviya, Jyoti Mittal and V.K. Gupta	Adsorption Studies on the Removal of Colouring Agent Phenol Red from Wastewater Using Waste Materials as Adsorbents	Journal of Colloid & Interface Science	337(2), 345–354.	2009	SCI	9.7
V.K. Gupta, Alok Mittal, Arti Malviya and Jyoti Mittal	Adsorption of Carmoisine A from Wastewater using Waste Materials – Bottom Ash and Deoiled Soya	Journal of Colloid & Interface Science	335(1), 24–33.	2009	SCI	9.7
Alok Mittal, Dipika Kaur and Jyoti Mittal	Batch and Bulk Removal of a Triarymethane Dye, Fast Green FCF, from Wastewater by Adsorption over Waste Materials	Journal of Hazardous Materials	163, 568–577.	2009	SCI	11.3
V.K. Gupta, Alok Mittal, Vibha Gajbe and Jyoti Mittal	Adsorption of Basic Fuchsin using Waste Materials, BA & DOS as Adsorbents	Journal of Colloid & Interface Science	319, 30–39.	2008	SCI	9.7
Alok Mittal, V.K. Gupta, Arti Malviya and Jyoti Mittal	Development for the Batch and Bulk Removal and Recovery of a Hazardous, Water Soluble Azo Dye (Metanil Yellow) by Adsorption over	Journal of Hazardous Materials	151, 821–832	2008	SCI	11.3

	Waste Materials (Bottom Ash and De-Oiled Soya)					
Alok Mittal, Vibha Gajbe and Jyoti Mittal	Removal and Recovery of Hazardous Triphenylmethane Dye, Methyl Violet through Adsorption over Granulated Waste Materials	Journal of Hazardous Materials	150, 364–375	2008	SCI	11.3
Alok Mittal, Dipika Kaur and Jyoti Mittal	Applicability of Waste Materials – Bottom Ash and De-Oiled Soya, as Adsorbents for the Removal and Recovery of a Hazardous Dye – Brilliant Green	Journal of Colloid & Interface Science	326, 8–17.	2008	SCI	9.7
Alok Mittal, Arti Malviya, D. Kaur, J. Mittal and L. Kurup	Studies on the Adsorption Kinetics and Isotherms for the Removal and Recovery of Methyl Orange from Wastewaters Using Waste Materials	Journal of Hazardous Materials	148, 229–240	2007	SCI	11.3
Alok Mittal, Lisha Kurup and Jyoti Mittal	Freundlich and Langmuir Adsorption Isotherms and Kinetics for the Removal of Tartrazine from Aqueous Solutions Using Hen Feathers	Journal of Hazardous Materials	146(1-2), 243–248	2007	SCI	11.3
Alok Mittal, Jyoti Mittal, Lisha Kurup	Utilization of Hen Feathers for the Adsorption of a Hazardous Dye, Indigo Carmine from Its Simulated Effluent	Journal of Environmental Protection Science	1, 92–100.	2007		1.42
V.K. Gupta, Alok Mittal, Vibha Gajbe, Jyoti Mittal	Removal and Recovery of the Hazardous Azo Dye, Acid Orange 7 through Adsorption Waste Materials–	Industrial & Engineering Chemistry Research	45, 1446–1453	2006	SCI	3.9

	Bottom Ash & De-Oiled Soya					
V.K. Gupta, Alok Mittal, Lisha Kurup and Jyoti Mittal	Adsorption of a Hazardous Dye, Erythrosine, over Hen Feathers	Journal of Colloid & Interface Science	304, 52–57	2006	SCI	9.7
Alok Mittal, Jyoti Mittal and Lisha Kurup	Adsorption Isotherms, Kinetics and Column Operations for the Removal of Hazardous Dye, Tartrazine from Aqueous Solutions Using Waste Materials – Bottom Ash and De-Oiled Soya, as Adsorbents	Journal of Hazardous Materials	136(3), 567–578	2006	SCI	11.3
Alok Mittal, Jyoti Mittal and Lisha Kurup	Batch and Bulk Removal of Hazardous Dye, Indigo Carmine from Wastewater through Adsorption	Journal of Hazardous Materials	B137, 591–60	2006	SCI	11.3
Alok Mittal, Jyoti Mittal, Lisha Kurup and A.K. Singh	Process Development for the Removal and Recovery of Hazardous Dye Erythrosine from Wastewater by Waste Materials – Bottom Ash and De-Oiled Soya as Adsorbents	Journal of Hazardous Materials	138(1), 95–105	2006	SCI	11.3
Alok Mittal, Jyoti Mittal, Lisha Kurup	Effect of Base Oil Characteristics on Thickening Properties of Greases	Greasetech India	IX(1) 7–13	2006		
Alok Mittal, Vineeta Jain and Jyoti Mittal	Transient Charging and Discharging Current Studies on Unstretched and Stretched Polypropylene Films	Journal of Material Science Letters	20, 681–685	2001	Scopus	0.461
Alok Mittal, Vineeta Jain, Jyoti Mittal	Effect of filling of Red Mud on the Dielectric Constant of Polymethyl	Asian Journal of Chemistry	13,1252–1254.	2001	Scopus	

	Methacrylate					
Alok Mittal, Vineeta Jain, Jyoti Mittal	Temperature Dependence of Dielectric Constant on Pure Polymethyl Methacrylate	Asian Journal of Chemistry	13,1216–1218.	2001	Scopus	

Patents				
Title	Date of Filing/Publishing/Granting	Agency	Co-Investigator (if any)	Published/Granted/Filed
A Method for Dye Removal by Hen Feathers	Filing: 26.06.2024	Indian Patent	Bharti Gaur Alok Mittal	Filed

Event Organized/News		
Programme	Duration	Coordinators
GIAN	4 th to 8 th December 2023	Jyoti Mittal
Online Lecture Series under SPARC	From 2 nd February to 24 th February, 2021	Jyoti Mittal
Online Lecture Series under SPARC	25 th February to 1 st March 2021	Jyoti Mittal
10 Days Lecture Series of Dr. Richard Baker	21 st August to 31 st August, 2019	Jyoti Mittal
10 Days Lecture Series of Dr. Paul Wright	20 st August to 30 st January, 2020	Jyoti Mittal

Citations			
	h-index	i-10 index	Total Citations
	47	57	12910

Outreach Activities: Give Details (if any)

Detailed Bio-data