Profile Page



Name	:	Dr Shailendra Bajpai
Designation	:	Professor
Department	:	Chemical Engineering
Qualification	:	PHD Chemical Engg (NIT Jalandhar)
		M. tech Chemical Engg. (IIT Kanpur)
		B tech (HBTI Kanpur)
Address	:	A 503, NIT Campus
		Jalandhar, Punjab - 144011
Email	:	bajpais@nitj.ac.in

Research Interests :

Waste water treatment, Safety in chemical plants, Membrane separation process, Risk assessment of intentional threats

Other Profile Links :

Google Scholar Link :

Google Scholar profile <u>Click Here</u>

Personal Web Link :

Scopus Profile <u>Click Here</u> ResearchGate Profile <u>Click Here</u> ORCID <u>Click Here</u> VIDWAN LINK <u>Click Here</u>

Journal Publications :

Year	Journal	Publication
2022	Biomass Conversion and	Bajpai, S., 2022. Biorefining of leather solid waste to harness energy and
	Biorefinery,	materials—A review
2021	Environmental Science and	Robin Marlar Rajendran, Sangeeta Garg, Shailendra Bajpai, Modelling of
	Pollution Research, 2021, Vol 28,	arsenic (III) removal from aqueous solution using Film Theory Combined
	Page numbers 13886-13899	Spiegler Kedem model: Pilot scale study
2021	SPE Polymers (Wiley)	N. Sood, M. K. Jha, S. Bajpai, Studies on the effect of Low Density
		Polyethylene on Ethylene Vinyl Acetate / Styrene Butadiene Styrene
		Blends for Yoga Mat Applications

2021	Asian Textile Journal	N. Sood, M. K. Jha, S. Bajpai, EVA and SBS Blended Foam for Sports
		and Yoga Mat Applications: Study the application of Ethylene vinyl
		acetate (EVA) / Styrene butadiene styrene (SBS) foams for yoga mat
		textile products, Asian Textile Journal, 2021
2021	Chemical Papers, 2021, Vol 75,	Robin Marlar Rajendran, Sangeeta Garg, Shailendra Bajpai, Economic
	Page numbers 4431-4444	feasibility of arsenic removal using nanofiltration membrane: A review,
2020	Carbohydrate Polymers 240,	Thermal decomposition kinetics and properties of grafted barley husk
	116225.	reinforced PVA/starch composite films for packaging applications
		Carbohydrate Polymers 240, 116225Carbohydrate Polymers 240, 116225
2019	Polymer Testing, 2019, Vol 78,	Mittal, A., Garg S, Bajpai S, The influence of fatty acid chain length on
	Page numbers 1-10	the chemical, physical and morphological properties of the grafted barley
		husk for application in biocomposites
2019	Iranian Polymer Journal, 2019, Vol	Aanchal Mittal, Sangeeta Garg, Shailendra Bajpai, Lauric acid-grafted
	28 (5), Page numbers 379-370	barley (Hordeum vulagare L.) husk for application biocomposite films:
		optimization method in synthesis and characterization,
2019	Korean Journal of Chemical	Shailendra Bajpai, Robin Marlar Rajendran, Sanjeevani Hooda, Modeling
	Engineering, 2019, Vol 36 (10),	the performance of HPA membrane for sulfate ion removal from Ternary
	Page numbers 1648-1656	ion system,
2019	Toxicology and Environmental	Kushwaha R., Garg S., Bajpai S, Modelling and Optimization of Nile
2017	Chemistry, 2019, Vol 101(1-2),	Blue Sulphate Mineralization by Heterogenous Fenton Oxidation,
	Page numbers 26-44	
2018	Indian Chemical Engineer, 60,	S. Bajpai, Vidushi Bajpai, Apurba Dey, Subrata Gosh, M K Jha, "Study
2010	1-13	of adherence kinetics of Escherichia colion cotton knitted fabrics"
2018	Research on Chemical	Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of
2010	Intermediates, 44, 1-28	Nile Blue sulphate dye onto iron oxide nanoparticles: Kinetic study,
		identification of reaction intermediates, and proposed mechanistic
		pathways"
2018	Asia Pacific Journal of Chemical	Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Modified
2010	Engineering, 1, 1-16	generalized kinetic model and degradation mechanistic pathways for
		catalytic oxidation of NBS dye in Fenton-like oxidation process"
2018	Research Journal of Chemistry and	Shailendra Bajpai, Apurba Dey, M. K. Jha, Vidushi Bajpai, R R Marlar,
2010	Environment, 1-13	"Removal of Cr (VI) from aqueous streams using chemically modified
	Environment, 1-15	bark of Blackboard Tree: Optimization through Response Surface
		Methodology"
2018	Recent Advances in Bioenergy	R R Marlar, V Aiyappan, S S Rao, S Bajpai, "Sequencing Batch Reactor
2010	Research, 159-179	Technique for Municipal Sewage Treatment with Carbon Credits"
2018	Asia Pacific Journal of Chemical	Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, Degradation of
2010	Engineering, 2018, Vol 13 (3),	Nile Blue sulphate dye onto iron oxide nanoparticles: Kinetic study,
	Page numbers 1-16	
	r age numbers 1-10	identification of reaction intermediates, and proposed mechanistic
2017	Intermetional Learning 1 - f	pathways P. P. Mosler, Soniasuani Haada, Sangasta Cara, Vidhusi Painai, S. Painai
2017	International Journal of	R R Marlar, Sanjeevani Hooda, Sangeeta Garg, Vidhusi Bajpai, S Bajpai,
	Mathematics and Physical	"Treatment of Coloured Wastewater by using Spiral Wound
2016	Sciences Research, 5, 77-93	Nanofiltration Membrane and Parameter evaluation"
2016	Carbohydrate Polymers, 151,	Aanchal Mittal, Sangeeta Garg, Deepak Kohli, Mithu Maiti, Asim Kumar
	926-938	Jana, Shailendra Bajpai, "Effect of cross linking of PVA/starch and
		reinforcement of modified barley husk on the properties of composite
		films"
2015	International Journal of	films" Manoj K, S. Bajapi, "Application of Extended Nernst Plank Model in
2015	International Journal of Engineering Research and Reviews, 3(3), 40-49	films"

Conference Publications :

Year	Conference	Publication
2018	Advances in Chemical Science and Technology	Rajkamal Kushwaha, Sangeeta Garg, Shailendra
	(ACST) 2018 held at NIT Jalandhar, 55	Bajpai, "One pot synthesis and use of silica coated
		iron oxide nanoparticles as selective adsorbents for
		heavy metal ions"
2018	Advances in Chemical Science and Technology	Monica ranga, N.K. Srivastava, S Bajpai, "A review
	(ACST) 2018 held at NIT Jalandhar, 56	on the phenol removal by using electrocoagulation
		and advance oxidation process"
2018	Advances in Chemical Science and Technology	Aanchal Mittal, Sangeeta Garg, Shailendra Bajpai,
2010	(ACST) 2018 held at NIT Jalandhar, 39	"Chemical modification of cellulose with palmitic
		acid for application in composite films"
2018	Advances in Chemical Science and Technology	R S Yadav, R R Marlar, Neetu Divya, S Bajpai, "A
2018		Review on Pesticides Removal by using
	(ACST) 2018 held at NIT Jalandhar, 56	•••
2010		Nanofiltration Membrane Process"
2018	Advances in Chemical Science and Technology	R R Marlar, S Hooda, SGarg, S Bajpai, "A Review
	(ACST) 2018 held at NIT Jalandhar, 29	on Arsenic Removal by using Pressure driven
		Nanofiltration Membrane Process"
2018	Advances in Chemical Science and Technology	R RMarlar, S Hooda, SGarg, S Bajpai, "Hybrid
	(ACST) 2018 held at NIT Jalandhar, 32	Membrane System for Arsenic Removal"
2018	Advances in Chemical Science and Technology	S Hooda, R RMarlar, N K Srivastava, S Bajpai,
	(ACST) 2018 held at NIT Jalandhar, 30	"Treatment of wastewater by using Spiral wound
		Nanofiltration Membrane Validated using Donnan
		Steric Pore Model"
2018	71st annual session of the Indian institute of Chemical	R R Marlar, Sangeeta Garg, S Bajpai, "Arsenic
	Engineers IICHE, CHEMCON-2018 held at NIT	removal from drinking water by using pressure driven
	Jalandhar.	Nanofiltration process in the past decade: A critical
		review"
2018	71st annual session of the Indian institute of Chemical	R R Marlar, R S Yadav, Vidhusi Bajpai, Sangeeta
	Engineers IICHE, CHEMCON-2018 held at NIT	Garg, S Bajpai, "Application of Donnan steric pore
	Jalandhar, 443	and dielectric exclusion model: Nanofiltration of
	····· · · · · · · · · · · · · · · · ·	Methylene Blue"
2018	71st annual session of the Indian institute of Chemical	R S Yadav, R R Marlar, Vidhusi Bajpai, Neetu Divya,
2010	Engineers IICHE, CHEMCON-2018 held at NIT	S Bajpai, "Evaluation of membrane parameters by
	Jalandhar, 473	using Donnan Steric Pore Model for ternary ion
	Summer, 475	system"
2018		Aanchal Mittal, Sangeeta Garg, S Bajpai, "Studies on
	71st annual session of the Indian institute of Chamical	
2010	71st annual session of the Indian institute of Chemical	
2010	Engineers IICHE, CHEMCON-2018 held at NIT	the biodegradability of the PVA/starch composite
	Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk"
2018	Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra
	Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in
2018	Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor"
	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety
2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor"
2018 2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety Attend Using Fuzzy Analytical Hierarchy Process"
2018 2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety
2018 2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety Attend Using Fuzzy Analytical Hierarchy Process"
2018 2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 71st annual session of the Indian institute of Chemical 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety Attend Using Fuzzy Analytical Hierarchy Process" Vikas kumar, N.K.Srivastava, S Bajpai, "Removal of
2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety Attend Using Fuzzy Analytical Hierarchy Process" Vikas kumar, N.K.Srivastava, S Bajpai, "Removal of Organophosphate pesticide residues Malathion from
2018 2018 2018	 Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 481 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 488 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 71st annual session of the Indian institute of Chemical Engineers IICHE, CHEMCON-2018 held at NIT Jalandhar, 526 	the biodegradability of the PVA/starch composite films reinforced with grafted barley husk" Rajkamal Kushwaha, Sangeeta Garg, Shailendra Bajpai, "Degradation of Nile Blue Sulphate Dye in Pilot Plant Bubble Column Reactor" Jaspreet Chawla, S. Bajpai, Gourav Gupta, "Safety Attend Using Fuzzy Analytical Hierarchy Process" Vikas kumar, N.K.Srivastava, S Bajpai, "Removal of Organophosphate pesticide residues Malathion from aqueous stream using Nano filtration"

2018	Environmental Geotechnology, Recycled Waste	Mittal A., Garg S., Bajpai S, "Application of response
	Materials and Sustainable Engineering March 9-31,	surface methodology to optimize the reaction
	2018 which is held at NIT Jalandhar, 17	parameters for grafting of cellulosic"
2018	6th International conference on Advancements in	Robin Marlar Rajendran, S Hooda, S Garg, S Bajpai,
	Engineering and Technology, 2018 held at	"Treatment of wastewater using Spiral wound
	BhaiGurdas Institute of Engineering and Technology,	Nanofiltration Membrane validated using
	Sangrur Punjab, 508	Solution-Diffusion Model combined with film theory"
2018	6th International conference on Advancements in	R RMarlar, S Hooda, S Garg, S Bajpai, "Treatment of
	Engineering and Technology, 2018 held at	Arsenic by using Thin Film Composite spiral wound
	BhaiGurdas Institute of Engineering and Technology,	Nanofiltration Membrane"
	Sangrur Punjab, 508	
2018	Advances in Chemical Science and Technology	Rajkamal Kushwaha, Sangeeta Garg, Shailendra
	(ACST) 2018 held at NIT Jalandhar, 55	Bajpai, "Application of artificial neural network for
		the removal of toxic metal ions from aqueous
		solution"
2016	National Conference on Application of Biotechnology	A. Mittal, S. Garg, M. Maiti, S. Bajpai, "Evaluation
	in Industry and Society, NIT Jalandhar, 37	of properties of barley husk fiber after grafting with
		palmitic acid"
2016	Advances in Chemical and Environment Engineering	Rajkamal Kushwala, DrSangeeta Garg, Dr. Shailendra
	(ACEE) held at NIT Jalandhar, 30	Bajpai, "Synthesis and Characterization of iron oxide
		nanoparticles: application in adsorptive removal of
		nile blue sulphate Dye"
2016	Advances in Chemical and Environment Engineering	R Marlar, VigneswaranAiyappan, SS Rao, S. Bajpai,
	(ACEE) 2016 held at NIT Jalandhar, 38	"Recent advances in Membrane synthesis technique,
		structure, properties and performance of pressure
		driven membrane process: A review"
2016	Advances in Chemical and Environment Engineering	A. Mittal, S. Garg, S. Bajpai, "Bio-nanocomposite
	(ACEE) 2016 held at NIT Jalandhar, 106	films for the packaging applications. Advances in
		Chemical and Environment Engineering (ACEE)
		2016 held at NIT Jalandhar"
2016	Advances in Chemical and Environment Engineering	A.Vigneshwaran, R RMarlar, S. Bajpai, "Recent
	(ACEE) 2016 held at NIT Jalandhar, 39	advances in modelling of Nano filtration: A critical
		review"
2016	Advances in Chemical and Environment Engineering	AvinashPlaha, S. Bajpai, "Tyre designing and
	(ACEE) 2016 held at NIT Jalandhar, 349	development"
2016	69th annual session of the Indian institute of Chemical	Rajkamal Kushwaha, Sangeeta Garg, Shailendra
	Engineers IICHE, CHEMCON-2016 held at Anna	Bajpai, "Synthesis and characterization of
	University, Chennai, 55	Mesoporous Silica coated Iron Oxide Nanoparticles:
		Application in Adsorptive Removal of Niler Blue
		Sulphate"
2016	69th annual session of the Indian institute of Chemical	S. Bajpai, R R Marlar, S S Rao, Dr Vidhusi Bajpai, Dr
	Engineers IICHE, CHEMCON-2016 held at Anna	Sangeeta Garg, "An unified model for spiral wound
	University, Chennai, 694	nanofiltration system"
2016	69th annual session of the Indian institute of Chemical	S S Rao, R R Marlar, Dr Vidhusi Bajpai, S. Bajpai,
	Engineers IICHE, CHEMCON-2016 held at Anna	"Coloured wastewater treatment using photochemical
	University, Chennai, 562	reactor"
2016	69th annual session of the Indian institute of Chemical	S. Bajpai, R R Marlar, S S Rao, Dr Vidhusi Bajpai, Dr
	Engineers IICHE, CHEMCON-2016 held at Anna	Sangeeta Garg, "Coloured wastewater treatment using
	University, Chennai, 894	spiral wound nanofiltration membrane"
2016	69th annual session of the Indian institute of Chemical	A. Mittal, S. Garg, M. Maiti, S. Bajpai,
	Engineers IICHE, CHEMCON-2016 held at Anna	"Bio-composite films reinforced with modified
	University, Chennai, 1110	cellulosic fibre and nanofibrils"

2016	International Conference on Redefining Textiles:	A. Mittal, S. Garg, M. Maiti, S. Bajpai, A. S. Giri,
	Cutting Edge Technology of the Future 2016 held at	"Synthesis and characterisation of iron oxide
	NIT Jalandhar, 694	nanoparticles: application in removal of cadmium and
		lead metal ions from wastewater. Textiles: cutting
		edge technology of the future"
2016	2nd International Conference on Recent	R R Marlar, Vigneswaran Aiyappan, S S Rao, S.
	Advancements in Bioenergy Research (ICRABR –	Bajpai, "Sequencing batch reactor techniques for
	2016) held at SardarSwaran Singh National Institute	Municipal sewage with carbon credits"
	of Bio Energy, Kapurthala, Punjab, 209	
2016	2nd International Conference on Recent	Shailendra Bajpai, "Pressure driven membrane
	Advancements in Bioenergy Research (ICRABR –	separation process: Principle, preparation and selected
	2016) held at SardarSwaran Singh National Institute	applications"
	of Bio Energy, Kapurthala, Punjab, 47	
2016	International Conference on Redefining Textiles:	A. Mittal, S. Garg, M. Maiti, S. Bajpai, A. S. Giri,
	Cutting Edge Technology of the Future 2016 held at	"Evaluation of the mechanical properties, water
	NIT Jalandhar, 473	resistant and biodegradability of crosslinked
		PVA/starch composite films reinforced with fiber"
2015	68th annual session of the Indian institute of Chemical	Avinash Plaha, S. Bajpai, "Doraha Ammonia gas
	Engineers IICHE, CHEMCON-2015 held at Indian	leakage: An Incident investigation"
	Institute of Technology, Guwhati, 73	

Book/Chapter Publications :

Туре	Title	Publisher	Authors	ISBN/ISS	Year
				N No.	
	Security Risk Assessment: Some	De Gruyter,	S Bajpai, J P		2017
	Techniques,	Germany	Gupta		
	Advances in Fertilizer Technology I	Studium Press L,	S Sinha, K K		2015
		U.S.A.	Pant, S Bajpai		
	Advances in Fertilizer Technology II	Studium Press L,	S Sinha, K K		2015
		U.S.A.	Pant, S Bajpai		
	Advances in Petroleum Engineering I	Studium Press L,	S Sinha, K K		2015
	Petrochemical	U.S.A.	Pant, S Bajpai		
	Advances in Petroleum Engineering II	Studium Press L,	S Sinha, K K		2015
	Refining	U.S.A.	Pant, S Bajpai		

Professional Affiliations :

Designation	Organization
Honorary Secretary since	Indian Institute of Chemical engineers, Doaba regional center, Kolkata
2012 to till date	
Life Member LM-33859	Indian Institute of Chemical engineers, Doaba regional center, Kolkata
Fellow F -1235067	Fellow of Institution of Engineers (India), Kolkatta

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Surendar V	Security risk assessment using baysian network	Ongoing	2021	
Mohd. Murtaja	Application of mathematical tools in energy	Ongoing	2021	
	sector in India			
Guna Sri Appala	Reutilization of solid waste from leather industry	Ongoing	2018	Dr. Nitin Pandhare
Robin Marlar R	Study on arsenic Removal from aqueous solution	Awarded	2016	Dr S Garg
	by using spiral wound Nanofiltration Membrane			

Aanchal Mittal	Synthesis and Characterization and studies on the	Awarded	2016	Dr S Garg
	properties of PVA/Starch composite film			
	reinforced with grafted barley Husk			
Navneet Sood	Study on Blending of LDPE-TPR-EVA Blends	Awarded	2015	Dr. M. K. Jha
	for Yoga Mat			
Rajkamal	Degradation of dye from aqueous solution using	Awarded	2014	Dr S Garg
Kushwaha	heterogeneous centralized oxidation process and			
	ozonation based processes			

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Mohammad Basit	Re-functionalization of Aged Polyamide NF	Awarded	2021	Sole
(19201103)	Membrane: Comparative Study of the Effects of			
	Chemical Cleaning Methods on Sulfate Removal			
	Performance.			
R S Yadav	Studies of lead removal from aqueous solution	Awarded	2019	Dr. N. Divya
	using polyamide Nanofiltration membrane			
S Hooda	Modeling of ternary ion system for aqueous	Awarded	2018	Dr. N. K. Srivastava
	solution by using HPA NF membrane			
S S Rao	Coloured wastewater treatment using	Awarded	2017	Sole
	Photochemical Reactor using different catalysis			
Avinash Plaha	Failure mode identification and prioritisation	Awarded	2016	Sole
	using RPN, WRPN and AHP-Promothee-II			
	Approach in chemical facilities			

Patents :

Name	Reg./Ref. No.	Date of	Organization	Status
		Award/Filling		
Shoe sole sanitizer with contact time	202011028336	03/07/2020	Dr B R	Published
alert			Ambedkar	
			National Institute	
			of Technology,	
			Jalandhar	
Wheel sanitization system for light	202011033070	01/08/2020	Dr B R	Published
weight vehicle			Ambedkar	
			National Institute	
			of Technology,	
			Jalandhar	
Biodegradable packaging films from	416366	02/01/2023	Dr. B. R.	Awarded
modified barley husk and method of			Ambedkar	
synthesis thereof			national institute	
			of technology,	
			jalandhar	

Admin. Responsiblities :

Position Held	Organization	From	То
Head, Deptt of Chemical	NIT Jalandhar	Feb 2015	Jan, 2017
Engineering			
Chief Warden	Dr B R Ambedkar National Institute of	Feb 2020	till date
	Technology, Jalandhar		

Coordinator Yoga	Dr B R Ambedkar National Institute of	Feb 2020	till date
	Technology, Jalandhar		
Local Coordinator, GIAN	Dr B R Ambedkar National Institute of	Jan 2018	Feb 2020
	Technology, Jalandhar		
Associate Dean (Faculty welfare)	Dr B R Ambedkar National Institute of	2017	2019
	Technology, Jalandhar		
Warden, Boys Hostel no 4	Dr B R Ambedkar National Institute of	2006	2010
	Technology, Jalandhar		
Coordinator, Har ghar Dhyaan	Dr. B. R. Ambedkar national institute of	December 2022	till date
	technology, Jalandhar		

Award and Honours :

Title	Activity	Given by	Year
Best Paper award	For the session "Membrane	IMRSE 2021	2021
	Separation Process and allied		
	areas"		
Best Paper award	Biopolymers, Materials,	IMRSE 2021	2021
	Synthesis & Characterization,		
	polymers and composites		
Best Paper award	Sustainable	IMRSE 2021	2021
	development/E-Waste		
	Management		
Best Teacher Award	For the Department of	Dr B R Ambedkar National	2017
	chemical Engineering for the	Institute of Technology,	
	session 2016-2017	Jalandhar	