Profile Page



Name : Dr. Nitin Naresh Pandhare

Designation : Assistant Professor Grade-i

Department : Chemical Engineering

Qualification : PhD (IIT Roorkee)

M.Tech (IIT Kharagpur)

B.Tech (LIT Nagpur)

Address : Department of Chemical Engineering

Dr. B R Ambedkar National Institute of Technology Jalandhar

Jalandhar, Punjab - 144027

Email : pandharenn@nitj.ac.in

Research Interests:

- 1. Industrial Pollution Control Engineering.
- 2. Catalysis and Chemical Reaction Engineering.
- 3. Selective dehydration, hydrogenation and hydrogenolysis of biomass-derived oxygenated hydrocarbon over supported nanoparticle catalysts.
- 4. Conversion of biomass to fuels and chemicals.
- 5. Kinetic modelling.

Other Profile Links:

Google Scholar Link:

Dr. Nitin Naresh Pandhare Click Here

Personal Web Link:

Vidwan Click Here

ORCID Click Here

Researchgate Click Here

Publons Web of Science Research ID Click Here

SCOPUS Click Here

Journal Publications:

Year	Journal	Publication
2022	Current Research in Green and	Mohan Lal Meena, Himanshu Malviya, Nitin Naresh Pandhare and
	Sustainable Chemistry, 5 (2022)	Prakash Biswas, Kinetic modeling of conversion of glycerol to
	100289	1,2-propanediol over bifunctional LDH catalyst

2022	Biomass Conversion and	V. N. S. Gunasri Appala, Nitin Naresh Pandhare and S. Bajpai,
	Biorefinery, (2022) 1-18	Biorefning of leather solid waste to harness energy and materials—A
		review
2019	Reaction Kinetics, Mechanisms	Dinesh Kumar Pandey, Nitin Naresh Pandhare and Prakash Biswas,
	and Catalysis, 127, 523–542	Production of propylene glycol (propane?1,2?diol) in vapor phase over
		Cu-Ni/??Al2O3 catalyst in a down flow tubular reactor: effect of catalyst
		calcination temperature and kinetic study
2017	Energy and Fuels 31(8) (2017)	Al Ameen A, Smita Mondal, Satyanarayana Murty Pudi, Nitin Naresh
	8521-8533	Pandhare, and Prakash Biswas, Liquid Phase Hydrogenolysis of Glycerol
		over Highly Active 50%Cu-Zn(8:2)/MgO Catalyst: Reaction Parameter
		Optimization by Using Response Surface Methodology
2017	Industrial and Engineering	Nitin Naresh Pandhare, Satyanarayana Murty Pudi, Smita Mondal, Keval
	Chemistry Research 57(1), (2017)	Pareta, Manish Kumar and Prakash Biswas, Development of kinetic
	101-110	model for hydrogenolysis of glycerol over Cu/MgO catalyst in a slurry
		reactor
2016	Journal of the Taiwan Institute of	Nitin Naresh Pandhare, Satyanarayana Murty Pudi, Prakash Biswas, and
	Chemical Engineers 61 (2016)	Shishir Sinha, Vapor phase hydrogenolysis of glycerol to 1,2-propanediol
	90-96.	over ?-Al2O3 supported copper or nickel monometallic and
		copper–nickel bimetallic catalysts
2016	Organic Processes Research and	Nitin Naresh Pandhare, Satyanarayana Murty Pudi, Prakash Biswas and
	Development 20 (2016) 1059-1067	Shishir Sinha, Selective hydrdrogenolysis of glycerol to 1,2-propanediol
		over highly active and stable Cu/MgO catalyst in vapor phase

Conference Publications:

Year	Conference	Publication
2021	An international conference on "Chemical, Bio and	Anas Khan, Shaurya Kumar Singh, Tarun Kumar and
	Environmental Engineering" (CHEMBIOEN-2021)	Nitin Naresh Pandhare, "Review study air pollution
		control system for secondary aluminum recycling and
		casting process"
2021	An international conference on "Chemical, Bio and	Shaurya Kumar Singh, Tarun Kumar and Nitin Naresh
	Environmental Engineering" (CHEMBIOEN-2021)	Pandhare, Indoor air pollution and its health impact:
		A case study of Muradabad city, India
2021	An international conference on "Chemical, Bio and	Shagun Agarwal, Deepak Sahu and Nitin Naresh
	Environmental Engineering" (CHEMBIOEN-2021)	Pandhare, CFD analysis of valve tray hydraulics using
		ASPEN-HYSYS
2020	An international conference on "Chemical, Bio and	V.N.S. Gunasri Appala, Nitin Naresh Pandhare and S.
	Environmental Engineering" (CHEMBIOEN-2020)	Bajpai, Effective utilization of solid waste from
		leather industry-A review"
2020	An international conference on "Chemical, Bio and	Narendra Kumar Nagar, Ajay Bansal and Nitin
	Environmental Engineering" (CHEMBIOEN-2020)	Naresh Pandhare, Bioethanol production from kitchen
		food waste"
2018	71st Annualsession of Indian Institute of Chemical	Gunasri Appalla, Nitin Naresh Pandhare and
	Engineers, CHEMCON-2018, 27-30, Dec, 2018, NIT	Shailendra Bajpai, "Assessment of chromium
	Jalandhar, Punjab, India.	remediation by recent strategies- A review"
2014	64th Canadian Chemical Engineering Conference,	Nitin Naresh Pandhare, Satyanarayana Murty Pudi,
	19-22, Oct, 2014, Niagara Fall, Canada.	Prakash Biswas, Shishir Sinha, "Selective
		hydrogenolysis of glycerol to 1,2-propanediol over
		highly active and selective Cu-Ni/Al2O3 catalysts"
2014	The 9th India Japan bilateral conference, Bicon-2014,	Satyanarayana Murty Pudi, Nitin Naresh Pandhare,
	12-17 October, 2014, Jaipur, India.	Prakash Biswas, "Conversion of glycerol to value
		added products over supported nanoparticle catalysts"

2013	International Conference on Advances In Chemical	Deepesh Yadav, Nitin Naresh Pandhare and Prakash
	Engineering, 22-24, February, 2013, IIT Roorkee,	Biswas, "Hydrogenation of Furfural to Furfuryl
	India.	Alcohol over Ni/?-Al2O3 catalyst"

Book/Chapter Publications:

Туре	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book	Mathematical models for optimization of	Springer	Venkata Naga	978-981-1	2022
Chapter	anaerobic digestion and biogas production	Singapore	Surya Gunasri	6-8681-8	
			Appala, Nitin		
			Naresh Pandhare		
			& Shailendra		
			Bajpai		
Book	Catalysts for Conversion of	Scrivener	Anjireddy	978-1-119-	2022
Chapter	Lignocellulosic Biomass Into Platform	Publishing LLC	Bhavanam,	81879-3	
	Chemicals and Bio-Aromatics		Poonam Gera,		
			Nitin Naresh		
			Pandhare and		
			Subhrajeet Dash		
Book	Advances in Chemical, Bio and	Springer Nature	Shagun Agrawal,	978-3-030-	2022
Chapter	Environmental Engineering	Switzerland AG	Deepak Sahu,	96554-9	
			Bhisham Kumar		
			Dhurandher,		
			Anchal Bahman,		
			Jatinder Kumar		
			Ratan, Kanchan,		
			Nitin Naresh		
			Pandhare, and		
			Om Prakash		
			Verma		
Book	Advances in Chemical, Bio and	Springer Nature	Jatinderpal	978-3-030-	2022
Chapter	Environmental Engineering	Switzerland AG	Singh, Subhrajeet	96554-9	
			Dash, Anjireddy		
			Bhavanam,		
			Poonam Gera, D.		
			Giribabu, and		
			Nitin Naresh		
			Pandhare		

Research Projects:

Role	Project	Title	Funding	From	То	Amount	Status	Co-Investi
	Type		Agency					gator
Co-PI	Consultancy	Environmenta	(PPCB) M/s	29-12-2020	25-12-2021	725700	Complete	Dr. J K
	Project	1 audit of M/s	Trident				d	Ratan and
		Trident Ltd.,	Limited,					Dr. S K
		(Towel	Barnala					sinha
		division) vill.						
		Dhaula,						
		Tehsil &						
		Distt Barnala						

Co-PI	Industry	Color	M/s Trident	26-04-2022	till date	626580	Ongoing	Dr. J K
	R&D	reduction of	Limited,					Ratan, Dr.
	project	effluent from	Barnala					Sumer
		ETP of dying						Singh
		unit						Meena and
								Dr. G N
								Nikhil

Events Organized:

Category	Type	Title	Venue	From	То	Designation
STC	National	Emerging technologies	Department of	21/02/2020	25/02/2020	Coordinator
		for next generation	Chemical			
		bio-fuels and	Engineering Dr. B.			
		bio-products	R. Ambedkar			
			National Institute of			
			Technology			
			Jalandhar			
STC	National	Modern Practices in	Department of	06/11/2020	10-11-2020	Coordinator
		Hydrocarbon	Chemical			
		Engineering	Engineering Dr. B.			
			R. Ambedkar			
			National Institute of			
			Technology			
			Jalandhar			
STC	National	Valorization of	Department of	18-09-2020	22-09-2020	Coordinator
		lignocellulosic biomass	Chemical			
		towards sustainable	Engineering Dr. B.			
		fuels, chemicals and	R. Ambedkar			
		materials	National Institute of			
			Technology			
			Jalandhar			
Conference	International	CAMSE 2021	Dr. B. R. Ambedkar	17-07-2021	19-07-2021	Organizing
			National Institute of			Secretary
			Technology			
			Jalandhar			
Conference	International	CHEMBIOEN-2021	Department of	20-08-2021	22-08-2021	Organizing
			Chemical			Secretory
			Engineering Dr. B.			
			R. Ambedkar			
			National Institute of			
			Technology			
			Jalandhar			

Professional Affiliations:

Designation	Organization
Assistant Professor	Dr. B. R. Ambedkar National Institute of Technology Jalandhar

PhD Supervised:

	Scholar Name	Research Topic	Status	Year	Co-Supervisor
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Suneel Yadav	Novel utilization of waste of sugar and allied	Ongoing	Dr. J K Ratan
	industries with biocircular economic		
	sustainability		
Ms. V N S	Study on biogas production from tannery and	Ongoing	Dr. Shailendra Bajpai
Gunasri Appala	kitchen waste using anaerobic co-digestion		
	process		

PG Dissertation Guided:

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Mr. Narendra	A study on Bioethanol production from mixed	Completed	2020	Dr. Ajay Bansal
Kumar Nagar	kitchen Food waste			

Patents:

Name	Reg./Ref. No.	Date of	Organization	Status
		Award/Filling		
Copper-zinc-magnesium catalyst for	Patent no.: 373960	17/05/2017	IIT Roorkee	Granted
highly selective conversion of				
glycerol to 1,2-propanediol in liquid				
phase				

Admin. Responsiblities:

Position Held	Organization	From	То
Assistant Warden (Residential)	IIT Roorkee	01-04-2012	31-05-2013
Warden Hostel no: 5	Dr. B. R. Ambedkar National Institute of	01/03/2018	01/01/2019
	Technology Jalandhar		
Warden Hostel no: 5	Dr. B. R. Ambedkar National Institute of	09-03-2021	Till Date
	Technology Jalandhar		