

Profile Page



Name : Dr Neetu Divya
Designation : Assistant Professor
Department : Chemical Engineering
Qualification : PhD Chemical Engineering (NIT Jalandhar, Punjab)
M.Tech. Chemical Process Design (NIT Raipur, Chattisgarh)
B.Tech. Chemical Engineering (NIT Raipur, Chattisgarh)
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Research Interests :

Environmental Engineering, Photocatalysis, Chemical Process Design, Transport Phenomena, Nanotechnology, Graphene

Other Profile Links :

Google Scholar Link :

Dr Neetu Divya [Click Here](#)

Personal Web Link :

Orcid Profile [Click Here](#) Microsoft profile [Click Here](#) Vidyan profile [Click Here](#) Scopus profile [Click Here](#)

Journal Publications :

Year	Journal	Publication
2020	Journal of the Iranian Chemical Society	Pankaj kumar, Neetu Divya, J K Ratan "Study on the physio-chemical properties of reduced graphene oxide with different degree of reduction temperature"
2020	J. Indian Chem. Soc., Vol. 97, pp. 478-482	Nikita Rajpal, Neetu Divya , Shalini Sharma , K. J. Balasubramani and Jatinder Kumar Ratan Treatment of greywater using consortium of Micrococcus luteus, Rhodococcus equi and Aspergillus niger
2018	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 40(19), pp.2317-2326.	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya, Transesterification of Prunus armeniaca oil using calcium methoxide as catalyst: Identification of methyl esters and proposed mechanistic pathways,
2018	Research on Chemical Intermediates, 44(12), pp. 7691-7709	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya "Statistical optimization of biodiesel production from Prunus armeniaca oil over strontium functionalized calcium oxide"

2017	International Journal of Luminescence and applications, 7(2) , pp 386-392.	R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and A. K. Upadhyay, "Mechanoluminescence Properties of Ba Doped LiF Crystal Induced by Applying Varying Pressure"
2017	International Journal of Luminescence and applications, 7(2) , pp. 397-403.	R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya and A. K. Upadhyay, "Synthesis and Luminescence Characterization of Eu Activated Al ₂ O ₃ Phosphor"
2014	International Journal of Research in Advent Technology (IJRAT), 2(4), pp. 413-418, April 2014. E-ISSN: 2321-9637.	Neetu Divya, Bidyut Mazumdar, "Biosorption studies for Chromium (VI) removal using Sweetlime fruit skin & Bagasse"
2013	International Journal of Environmental Science & Technology (IJEST),10(6), pp.1265-1274.	Neetu Divya, Ajay Bansal and A K Jana, "Photocatalytic degradation of azo dye Orange II in aqueous solution using copper-impregnated titania"
2009	Bulletin of Chemical Reaction Engineering and Catalysts, 4(2), 43-53.	Neetu Divya, Ajay Bansal and A K Jana, "Surface Modification and Characterization of Nano-Titanium oxides with Silver and Bentonite clay".
2009	International Journal of Biotechnology and Chemical Science. 3(1) 54-62	Neetu Divya, Ajay Bansal and A K Jana, "Degradation of acidic Orange G dye using UV-H ₂ O ₂ in batch photoreactor"

Conference Publications :

Year	Conference	Publication
2020	International conference on Chemical, Bio and Environmental Engineering (CHEMBIOEN 2020)during February 13-14, 2020 at Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab,India	Nikita Rajpal, Neetu Divya, Shalini Sharma, K. J. Balasubramani, Jatinder Kumar Ratan "Treatment of greywater using consortium of micrococcus luteus ,rhodococcusequi and aspergillusniger"
2019	2nd National Conference on Advances in Chemical and Environmental Engineering (ACEE'19), March 23-24,2019 at National Institute of Technology Jalandhar, Punjab.	Pankaj Kumar, Neetu Divya, J.K. Ratan, "Catalytic Properties of Graphene Oxide, Graphene Based Composite Materials: A review"
2019	2nd National Conference on Advances in Chemical and Environmental Engineering (ACEE'19), March 23-24,2019 at National Institute of Technology Jalandhar, Punjab.	Kashish Mehta, M.K Jha, Neetu Divya "An experimental study on performance and exhaust emission of a diesel engine fuelled with bitter apricot methyl ester blends"
2018	Indian Chemical Engineering Congress (CHEMCON-18), 71st Annual Session of Indian Institute of Chemical Engineers , International conference on Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities & Challenges, December 27-30, 2018	Kashish Mehta, Neetu Divya, M.K Jha, Performance and emission analysis of diesel engine fuelled with Prunus Armenica methyl ester and diesel blends
2018	Indian Chemical Engineering Congress (CHEMCON-18), 71st Annual Session of Indian Institute of Chemical Engineers , International conference on Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities & Challenges, December 27-30, 2018	Pankaj Kumar, Neetu Divya, J.K. Ratan, "Catalytic properties of hetrostructure graphen-based metrix materials for environment –A review"
2018	National Conference on Advances in Chemical Science & Technology (ACST-2018), April 27-28, 2018 at National Institute of Technology Jalandhar, Punjab	R S Yadav, R R Marlar, N Divya, S Bajpai, "A review on the Pesticides removal by using Pressure driven Nanofiltration membrane process"

2018	Indian Chemical Engineering Congress (CHEMCON-18), 71st Annual Session of Indian Institute of Chemical Engineers , International conference on Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities & Challenges, December 27-30, 2018	R S Yadav, R R Marlar, N Divya, S Bajpai, "Evaluation of membrane parameters by using Donnan Steric Pore Model for ternary ion system"
2018	National Conference on Advances in Chemical Science & Technology (ACST-2018), April 27-28, 2018 at National Institute of Technology Jalandhar, Punjab.	Kashish Mehta, Neetu Divya, M.K Jha "One pot synthesis of modified zinc oxide nanoparticles by sol gel method for dye removal",
2018	National conference on Luminescence and Its Application (NCLA 2018) 14-16 Apr 2018, at CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerla.	R. K. Rai, R. S. Kher, S. J. Dhoble, N. Divya, A. K. Upadhyay " Al ₂ O ₃ :Tb- Phosphor for Mechanoluminescence Dosimetry"
2018	International Conference on Environment Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWMSE 2018), March 29-31, at National Institute of Technology Jalandhar, Punjab.	Pankaj Kumar, Neetu Divya, J.K. Ratan "Synthesis and characterization of chemically derived graphene Oxide from graphite ",
2018	International Conference on Environment Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWMSE 2018), March 29-31, at National Institute of Technology Jalandhar, Punjab.	Kashish Mehta, Neetu Divya, M.K Jha "Application of RSM for optimizing the biodiesel production catalyzed by calcium methoxide"
2016	National Conference on Luminescence and its Applications (NCLA-2016) February 18-20, Nagpur, India.	R. K. Rai, N. Divya, R. S. Kher, S. J. Dhoble, A. K. Upadhyay, "Mechanoluminescence Studies of BaAl ₂ O ₄ : Eu Phosphor Excited by Shaking Technique"
2016	International Conference on Humanizing Work and Work Environment (HWWE 2016), NIT Jalandhar, December 08-12,2016.	Pankaj Kumar, Jatinder Kumar Ratan, Neetu Divya, "Hydrothermal synthesis of cerium oxide/graphene (CeO ₂ /G) nanocomposite as diesel additive for environmental pollution control."
2016	International Conference on Frontiers of Physics and Plasma Sciences (FPPS- 2016)" November 07-08, Ujjain Engineering College Ujjain (M.P.), India.	R. K. Rai, N. Divya, R. S. Kher, S. J. Dhoble, A. K. Upadhyay, V. K. Hinge "Mechanoluminescence Studies of BaAl ₂ O ₄ :Tb ³⁺ Phosphor Excited by Shaking Technique"
2016	National Conference on Advances in Chemical and Environmental Engineering (ACEE'16), April 22-23, NIT Jalandhar	Pankaj Kumar and Neetu Divya, "Synthesis of Chemically Derived Graphene Oxide from Graphite"
2016	National Conference on Advances in Chemical and Environmental Engineering (ACEE'16), April 22-23, NIT Jalandhar.	Saurabh Kumar, Neetu Divya, "Nanofluid stability properties and characterization in stationary conditions: A Review",
2016	National Conference on Advances in Chemical and Environmental Engineering, April 22-23, at NIT Jalandhar, Punjab.	Kashish Mehta, Dr Ajay Bansal, Dr M K Jha, Dr Neetu Divya, "Fly Ash Based zeolite: As a potential photocatalyst"
2016	Second International Conference on Recent Advances in Bio-Energy Research (ICRABR-2016), February 25-27, at SSS-NIBE, Kapurthala, Punjab.	Kashish Mehta, M.K Jha, Neetu Divya, "Transesterification of Jatropha Curcas Oil Using Calcium Methoxide as a Solid Base Catalyst"
2016	Advances in Chemical and Environmental Engineering (ACEE-2016), Sponsored by TEQIP-II, Apr 22-23, Dr B R Ambedkar National Institute of Technology, Jalandhar-144011, Punjab, India,	R. K. Rai, N. Divya, R. S. Kher, S. J. Dhoble, "Mechanoluminescence Studies of BaAl ₂ O ₄ : Eu Phosphor Prepared by Combustion Synthesis"

2015	International Symposium cum Workshop on Luminescence Materials [ISWLM-2015], 18-20th December, Baroda, India.	R. K. Rai, N. Divya, R. S. Kher, S. J. Dhoble, A. K. Upadhyay, "Mechanoluminescence Studies of Al ₂ O ₃ : Eu Phosphor"
2013	National conference on Advances Oxidation Process (AOP-2013), November 21-23, at Thapar University, Patiala, Punjab, India.	Neetu Divya, Ajay Bansal and A K Jana, "Photocatalytic Degradation of Direct Red 80 Azo Dye Using Transition metal Doped Nano-Sized Titania Based Catalyst"
2013	International conference on Advances in Chemical Engineering (ICACE-2013), April 5-6, National Institute of Technology, Raipur, India.	Neetu Divya, Bidyut Mazumdar, "Biosorption studies for Chromium (VI) removal using Sweetlime fruit skin & Bagasse"
2013	International conference on Advances in Chemical Engineering (ICACE-2013), April 5-6, National Institute of Technology, Raipur, India.	Neetu Divya, Ajay Bansal and A K Jana, "Photocatalytic degradation studies of Orange II using metal composite titania catalysts"
2012	65th Annual Session of Indian Institute of Chemical Engineers, (CHEMCON-2012) and International conference on "Sustainable Technologies for Energy and Environment in Process Industries", December 27-30, National Institute of Technology, Jalandhar, India	Neetu Divya, Ajay Bansal and A K Jana, "Photodegradation of azo dye with metal doped catalysts"
2012	International Congress of Environmental Research (ICER-2012), November 22-24, Terengganu, Malaysia.	Neetu Divya, Ajay Bansal and A K Jana, "Kinetic modeling for homogeneous photodegradation in the treatment of four azo dyes"
2012	International Conference on Chemical Constellation Cheminar – 2012 (CCC-2012), September 10-12, NIT Jalandhar, India.	Neetu Divya, Ajay Bansal and A K Jana, "Kinetic modeling and requirement of electrical energy for Orange G degradation"
2012	International Conference on Frontiers of NanoScience, Nanotechnology and Their Applications, (NanoSciTech-2012), February 15,16-18, Panjab University, Chandigarh, India.	Neetu Divya, Ajay Bansal and A K Jana, "Effect of Nano-Catalysts on Orange G degradation",
2010	GreenChem-2010, Department of Chemistry, Vikramajit Singh Sanatan Dharam college, October 22-23, Kanpur, India.	Neetu Divya, S. Suresh, Abhishek K. Pandey, Sumit Soni and Ravi Kant Tripathi "Preparation of green catalysts for application of various treatment processes"
2010	The 5th IASME/WSEAS International conference on Energy & Environment, pp.140-146, February 23-25, University of Cambridge, UK.	Ajay Bansal, Neetu Divya and A K Jana, "Performance of Titania based Nano-Photocatalysts on the Degradation of Orange G azo dye"
2010	National Symposium on Reaction Engineering (NSRE-2010), pp.10-24, January 22-23, NIT Raipur, India.	Neetu Divya, Ajay Bansal and A K Jana, "Orange G Degradation Kinetics using UV/H ₂ O ₂ and UV/H ₂ O ₂ /ZnO Based Advanced Oxidation Processes"
2009	International Conference on Emerging Technologies in Environmental Science and Engineering (ICETESE-2009), pp.763-770, October 26-29, Aligarh Muslim University, India.	Ajay Bansal, Neetu Divya, Nishkam Batta and Saurabh Kumar, "Photodegradation of Orange G under solar irradiations"
2007	International Conference on Futuristic Trends in Textiles (ICFT-2007), p.70, Dec 10-12, NIT Jalandhar, India.	Neetu Divya, Ajay Bansal and A K Jana, "Degradation of Textile effluents –A Review"

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
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Book Chapter	Synthesis and Characterization of Chemically Derived Graphene Oxide from Graphite	Sustainable Engineering, Springer, Vol. 30, PP.85-94	Pankaj Kumar, Neetu Divya, J.K. Ratan, ,	ISBN 978-981-13-6716-8, ISBN 978-981-13-6717-5	2019
Book Chapter	Application of RSM for optimizing the biodiesel production catalyzed by calcium methoxide	Sustainable Engineering, Springer, Vol. 30, PP. 75-84.	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya	ISBN 978-981-13-6716-8, ISBN 978-981-13-6717-5	2019
Book Chapter	Effect of Nano-Catalysts on Orange G Degradation	Dorling Kindersley (India) Pvt. Ltd., Licensees of Pearson Education in South Asia	Neetu Divya, Ajay Bansal and A K Jana	978-81-317-8991-9	2013
Book Chapter	Nano-photocatalysts in the treatment of colored wastewater-A Review	Trans Tech Publications Ltd., Kreuzstrasse 10, CH-8635 Durnten-Zurich Switzerland	Neetu Divya, Ajay Bansal and A K Jana	13:978-3-03785-547-8/0255-5476	2013
Book Chapter	Photocatalytic Activity of Transition Metal Ion Doped Titania for Amaranth Dye Degradation	Trans Tech Publications Ltd., Kreuzstrasse 10, CH-8635 Durnten-Zurich Switzerland	Neetu Divya, Ajay Bansal and A K Jana	13:978-3-03785-349-8/0255-5476	2012

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
	sponsored	Study on lead removal and model development for spiral wound Nano filtration membrane	TEQIP-III	2018	2019	50000	complete d	Dr S Bajpai

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	National	Advances in Chemical & Environmental Engineering (ACEE 2016)	at Dr B. R. Ambedkar National Institute of Technology, Jalandhar.	22-04-16	23-04-16	Coordinator (Treasurer)

Conference	International	65th Annual Session of Indian Institute of Chemical Engineers, (CHEMCON-2012) and International conference on “Sustainable Technologies for Energy and Environment in Process Industries”	Dr B. R. Ambedkar National Institute of Technology, Jalandhar	27-12-12	30-12-12	Coordinator (Stage Committee)
STC	National	Energy and Environment Management	Dr B. R. Ambedkar National Institute of Technology, Jalandhar	19-10-13	23-10-13	Coordinator
Conference	National	2nd National Conference on “Advances in Chemical & Environmental Engineering (ACEE 2019)”	Dr B. R. Ambedkar National Institute of Technology, Jalandhar, India	23-03-19	24-03-19	Organizing secretary
Conference (Pending)	National	“Sustainable Research in Energy and Environment (SREE-2020)”	Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab	22/05/2020	23/05/2020	Convener

Professional Affiliations :

Designation	Organization
Life Member	Indian Institute of Chemical Engineering-IICChE
Associate Member	Institute of Engineers (India)-IEI
Member	International Association of Computer Sciences and Information Technology (IACSIT)
Editorial Board Member	International Journal of Chemical Engineering and Processing
Editorial Board Member	International Journal of Prevention and Control of Industrial Pollution
Editorial Board Member	International Journal of Applied Nanotechnology
National Advisory Committee Member	National Seminar IEI Waste to Energy Technology (WTET-19) Organized in November 23-24th 2019 at Samved Bhavan IE(I), Madhya Pradesh state centre, Habibganj, Bhopal

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Mr Pankaj Kumar	Synthesis and Characterization of Chemically Derived Cerium Oxide/Graphene (CeO ₂ /G) Nanocomposite to Enhance the Catalytic Activity of Diesel	Ongoing	2015	Dr Jatinder Kumar Ratan
Ms Nikita Rajpal	Bioremediation of Water using Microbial Consortium	Ongoing	2015	Dr. J. K. Ratan
Ms Kashis Mehta	A study on binary earth metal oxide catalyst for biodiesel production and its utilization	completed	2014-2020	Dr M K Jha

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
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Ms. Shefali Gupta	Studies on pollutants removal from aqueous solution using water hyacinth & lesser duckweed	Submitted	2018-2020	Dr N K Shrivastava
Mr. Ravi Shankar Yadav	Study on lead removal and model development for spiral wound Nano filtration membrane	completed	2017-2019	Dr S Bajpai
Ms. Monica	Preparation and Characterization of Activated Carbon from Terminalia Arjuna and Adsorption Studies	completed	2015-2017	Dr. J. K. Ratan
Mr. Sourab Kumar	Studies on CO2 absorption using Nano-fluid	completed	2014-2016	
Mr. Chandrabhan Gupta	Green Synthesis And Characterization Of Iron Oxide Nanoparticles Using Aqueous Extract Of Thuja Orientalis Leaves	completed	2014-2016	
Mr. Amit Kumar Chaurasia	Laccases Immobilization on nanoparticles: Removal of Alizarin Red S	completed	2013-2015	Dr Uma Shankar
Mr Kamble Pranil M	Studies for the removal of aqueous phenol by adsorption & Photocatalysis	completed	2012-2014	
Mr Pankaj Kumar	Synthesis of Chemically Derived Graphene Oxide from Graphite	completed	2012-2014	Dr Murari Prasad

Admin. Responsibilities :

Position Held	Organization	From	To
Warden Mega Hostel-Girls (MGH)	NITJ	1-11-12	15-5-14
Warden GH-I	NITJ	1-08-12	30-10-12
Coordinator IChE Student chapter Bhopal	MANIT Bhopal	15-07-10	15-03-12
Coordinator-Website Development (Department)	MANIT Bhopal		
Faculty advisor IChE student chapter Jalandhar	NITJ	29-08-17	2019
Member-Counseling Cell	NITJ	2015	Till date
Member-NSS	NITJ	1-08-12	1-11-13
Faculty Advisor-ChESS	NITJ	1-08-12	Till date
Proctor	NITJ	1-12-14	31-12-14
In-Charge Department Computer Center	NITJ	2012	Till Date
In-Charge Department Seminar Room	NITJ	2012	2018
In Charge Department Library	NITJ	2012	2019
In charge Academic affairs	NITJ	7/1/2019	Till Date
Faculty Representative (Institute Instrumentation Center)	NITJ	7/2/2020	Till Date