

Profile Page



Name : Dr M K Jha
Designation : Professor
Department : Chemical Engineering
Qualification : PhD Petroleum Engineering (IIT-ISM Dhanbad)
MTech Petroleum Engineering (IIT-ISM Dhanbad)
B.E Chemical Engineering (Panjab University, Chandigarh)
Address : Department of Chemical Engineering
JALANDHAR, PUNJAB - 144011
Email : jhamk@nitj.ac.in; jhamkin@yahoo.com
Phone : 9417290668, 8283937139

Research Interests :

- Oil and Gas Field Development
- Hydraulic Fracturing
- Re-Refining of used Lubricating Oil
- Oil Spill
- Antiwear Additives
- Development of Catalyst for Petroleum and Biofuel
- Kinetics of Bacterial Adherence on Textile Fabrics
- Biological Treatment of Tannery Wastewater

Other Profile Links :

Google Scholar Link :

M. K. Jha [Click Here](#)

Journal Publications :

Year	Journal	Publication
2020	Industrial Crops and Products	Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T. Hydrothermal Liquefaction of Castor Residue to Bio-oil: Effect of Alkali Catalyst and Optimization Study
2020	Journal of Cleaner Production.	Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha. Minimization of excess bio-sludge and pollution load in oxic-settling-anaerobic modified activated sludge treatment for tannery wastewater.
2020	Journal of Energy and Environmental Sustainability.	Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T. Catalytic Hydrothermal Liquefaction of Castor Residue: Effect on Product Yield and Distribution of Liquid Product.

2019	Science of the Total Environment	Products Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T. Optimization of process parameters for hydrothermal conversion of castor residue.
2019	Renewable Energy	Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T. Reaction parameters effect on hydrothermal liquefaction of castor (<i>Ricinus Communis</i>) residue for energy and valuable hydrocarbons recovery.
2019	Indian Chemical Engineer	Bajpai, S., Bajpai, V., Dey, A., Jha, M.K. Study of adherence kinetics of <i>Escherichia coli</i> on cotton knitted fabrics(Accepted for Publication)
2018	Bioresource Technology, 263, 613-624	Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha, "Excess sludge disruption and pollutant removal from tannery effluent by upgraded activated sludge system"
2018	Indian Chemical Engineer, 60, 1-13	S. Bajpai, Vidushi Bajpai, Apurba Dey, Subrata Gosh, M K Jha, "Study of adherence kinetics of <i>Escherichia coli</i> on cotton knitted fabrics"
2018	Research Journal of Chemistry and Environment, 1-13	Shailendra Bajpai, Apurba Dey, M. K. Jha, Vidushi Bajpai, R R Marlar, "Removal of Cr (VI) from aqueous streams using chemically modified bark of Blackboard Tree: Optimization through Response Surface Methodology"
2018	Bioresource Technology, 250, 422-428	Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T. , "Pyrolysis kinetics and thermodynamic parameters of castor (<i>Ricinus communis</i>) residue using thermogravimetric analysis"
2018	Journal of Biofuels, 1-11	K. Pal, M.K. Jha, P. Gera & S.K. Tyagi, "Energy and exergy analysis of a natural-draft improved biomass cookstove with varying quantities of different biomass feedstocks"
2018	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 40(19), pp.2317-2326	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya, "Transesterification of <i>Prunus armeniaca</i> oil using calcium methoxide as catalyst: Identification of methyl esters and proposed mechanistic pathways"
2018	Research on Chemical Intermediates	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya, "Statistical optimization of biodiesel production from <i>Prunus armeniaca</i> oil over strontium functionalized calcium oxide"
2016	Bulletin of Chemical Reaction Engineering & Catalysis, 11(2), 140	P Kumar, AK Sarma, A Bansal, MK Jha, "Formulation of SrO-MBCUS Agglomerates for Esterification and Transesterification of High FFA Vegetable Oil"
2016	Journal of Biofuels, 7, 313-335	K. Pal, M. K. Jha P. Gera, S. K. Tyagi, "Experimental Study on the performance evaluation and emission reduction potential of different cookstove models using standard design parameters and testing protocols"
2016	Journal of Biofuels and Bioenergy, 01 No.2, 135-147	Kaur, Ravneet, Poonam Gera, and Mithilesh Kumar Jha, "Study on Effects of Different Operating Parameters on the Pyrolysis of Biomass: A Review"
2015	Bulletin of Chemical Reaction Engineering & Catalysis, 10(3), 221-229	P Kumar, AK Sarma, MK Jha, A Bansal, B Srivastava, "Utilization of Renewable and Waste Materials for Biodiesel Production as Catalyst"
2015	Royal Society of Chemistry Advances, 5, 9946-9954	Prashant Kumar, Mohammad Aslam, Neetu Singh, Sunil Mittal, Ajay Bansal, Mithilesh Kumar Jha and Anil Kumar Sarma, "Characterization, activity and process optimization with a biomass-based thermal power plant's fly ash as a potential catalyst for biodiesel production"
2015	Journal of Chemical Engineering and its Innovation, 11, 1-26	N. K. Srivastava, M. K. Jha, T. R. Sreekrishnan, S. Bajpai, "Recombinant microbial bioremediation for the treatment of heavy metals"
2014	International Journal of Science Environment and Technology, 32, 395-402	N. K. Srivastava, M. K. Jha, T. R. Sreekrishnan, "Removal of Cr(VI) from wastewater using NiO nanoparticles"
2014	International Journal of Engineering Research, 33, 167-171	N. K. Srivastava, S. S. Parhi, M. K. Jha, T. R. Sreekrishnan, "Optimization of effect of pre-treatment on chromium removal by algal biomass using Response Surface Methodology"

Conference Publications :

Year	Conference	Publication
2018	71th Indian Chemical Engineering Congress (CHEMCON)	Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha, "Minimization of excess biosolids in oxic-settling-anoxic (OSA) treatment for tannery influent"
2018	Environmental geotechnology, recycled waste materials and sustainable engineering (EGRWSE)	Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha, "Minimization of biosludge from tannary effluent using anoxic modified conventional activated sludge process"
2018	Third International Conference on Sustainable Energy and Environmental Challenges (3rd SEEC), IIT Roorkee	Kaur, R., Gera, P., Jha, M. K., & Bhaskar, T., "Catalytic hydrothermal liquefaction of castor residue: effect on product yield and distribution of liquid product"
2018	71st Annual Session of Indian Institute of Chemical Engineers "CHEMCON-2018" on "Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities & Challenges", NIT, Jalandhar	Ravneet Kaur, Poonam Gera, Mithilesh Kumar Jha, Thallada Bhaskar, "A review on the effects of process parameters in the hydrothermal liquefaction of biomass"
2018	71st Annual Session of Indian Institute of Chemical Engineers "CHEMCON-2018" on "Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities & Challenges", NIT, Jalandhar	Jaspreet Kaur, M. K. Jha, Poonam Gera, Anil Kumar Sarma, "Conversion of Crude Glycerol into Value-added products via different pathways: A Review"
2018	National Conference on Advances in Chemical Science & Technology ACST-18, NIT, Jalandhar	Jaspreet Kaur, Poonam Gera, M K Jha, Anil Kumar Sarma, "Conversion of crude glycerol into value-added products"
2018	"Application of RSM for optimizing the biodiesel production catalyzed by calcium methoxide", NIT, Jalandhar	Kashish Mehta, Neetu Divya, M.K Jha, "International Conference on Environment Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWMSE 2018)"
2018	International Conference on Environment Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWMSE), NIT, Jalandhar	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), NIT, Jalandhar	Kashish Mehta, Neetu Divya, M.K Jha, "Application of RSM for optimizing the biodiesel production catalyzed by calcium methoxide"
2018	National Conference on Advances in Chemical Science & Technology (ACST), NIT, Jalandhar	Kashish Mehta, Neetu Divya, M.K Jha, "One pot synthesis of modified zinc oxide nanoparticles by sol gel method for dye removal"
2017	6th International Conference on "Advances in Energy Research", Indian Institute of Technology, Bombay	Jaspreet Kaur, Poonam Gera, M K Jha, Anil Kumar Sarma, "A study on the conversion of Glycerol into solketal using Rice husk derived catalyst"
2016	Advances in Chemical and Environmental Engineering	K Mehta, Ajay bansal, M K Jha, N Divya, "Fly ash based zeolite as a potential photocatalyst"
2016	Advances in Chemical and Environmental Engineering	Vijay Sodhi, Ajay bansal, M K jha, "Response of an Anoxic-Aerobic Activated Sludge operation for synthetic and real Industrial wastewater"

2016	Second International Conference on Recent Advances in Bio-energy Research (ICRABR), SSS NIRE, Kapurthala	Kaur, Ravneet., Gera, Poonam., Jha, MK, "Study on effects of different operating parameters on the pyrolysis of biomass: A review"
2016	Second International Conference on Recent Advances in Bio-energy Research (ICRABR), SSS NIRE, Kapurthala	Jaspreet Kaur, Lakhya Jyoti Konwar, Mithilesh Kumar Jha, Poonam Gera, Anil Kumar Sarma, "A review: Conversion of crude glycerol via different pathways and techno-economic feasibility"
2016	4th International Conference on "Sustainable Bioprocessing products for Food, Nutrition, Health and Environment (BPI), Knowledge City, Sector-81, Mohali	Kaur, R., Biswas, B., Kumar, J., Gera, P., Jha M.K., Bhaskar, T., Hydrothermal liquefaction of castor plant waste for bio-energy applications
2016	National Conference on Advances in Chemical and Environmental Engineering (ACEE), NIT, Jalandhar	Kaur, Ravneet., Gera, Poonam., Jha, MK, "Pyrolysis kinetics of waste wood using Thermogravimetric analysis"
2016	National Conference on Advances in Chemical and Environmental Engineering, NIT, Jalandhar	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), SSS-NIBE, Kapurthala, Punjab.	Kashish Mehta, M.K Jha, Neetu Divya, "Transesterification of Jatropha Curcas Oil Using Calcium Methoxide as a Solid Base Catalyst"
2015	68th Annual Session of Indian Institute of Chemical Engineers "CHEMCON-2015" on Chemical Engineering: From Laboratory to Industry	Kaur, Ravneet., Gera, Poonam., Jha, MK, "Biofuels Production from Biomass: A review on Conversion Technologies"
2007	World Congress on Engineering and Computer Science, University of California, San Francisco	Jatinder Kumar, Ajay Bansal, MK Jha, "Comparison of statistical and neural network techniques in predicting physical properties of various mixtures of diesel and biodiesel"

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Thermochemical Route for Biohydrogen Production	Elsevier	Ravneet Kaur, Poonam Gera, Mithilesh Kumar Jha, Thallada Bhaskar		2019
Book Chapter	Minimization of Biosolids from Tannery Effluent Using Modified Conventional Activated Sludge Process	Springer	Vijay Sodhi, Ajay Bansal, Mithilesh Kumar Jha		2019
	Application of RSM for optimizing the biodiesel production catalyzed by calcium methoxide	Springer	Kashish Mehta, Mithilesh Kumar Jha, Neetu Divya		2018
Book Chapter	Algal Bio-Hydrogen-Prospects and Challenges	Sardar Swaran Singh National Institute of Renewable Energy; Kapurthala, India	Singh S K, Jha MK, Bansal A & Dey A		2012

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Short Term Training Programme	National	Hydrocarbon Engineering	Department of Chemical Engineering, NIT Jalandhar	6/12/2002	10/12/2002	Organiser
Short Term Training Programme	National	Recent Advances in Hydrocarbon Engineering	Department of Chemical Engineering NIT Jalandhar	11/09/2014	15/09/2014	Organiser
Global Initiative for Academic Networks (GIAN)	International	Industrial Catalytic Technology	Department of Chemical Engineering NIT Jalandhar.	11/07/2016	15/07/2016	Organiser
hort term training programme	National	Hydrocarbon Engineering and Management	Department of Chemical Engineering, NIT Jalandhar	22/11/2007	26/11/2007	Organiser
Short term course	National	Environment Management in Process Industry	Department of Chemical Engineering, NIT Jalandhar	05/06/2011	09/06/2011	Organiser
Short Term Training Programme	National	Recent Advances in Energy Technology	on ""	02/06/2014	06/06/2014	Organiser
Seminar	National	Water Quality and Conservation	Department of Chemical Engineering NIT Jalandhar	03/09/2007	03/09/2007	Organiser
Workshop	National	Water Quality and Management in Leather Industry	Department of Chemical Engineering NIT Jalandhar	19/09/2007	19/09/2007	Organiser
Indian Chemical Engineering Congress (CHEMCON - 2012)	International	65th Annual Session of Indian Institute of Chemical Engineers and International Seminar on "Sustainable Technologies for Energy and Environment in Process Industries"	Department of Chemical Engineering, NIT Jalandhar	27/12/2012	30/12/2012	Organiser

2nd ISTE Regional Convention and National Seminar	National	Management of Technical Institutions	Department of Chemical Engineering	30/10/2013	31/10/2013	Organiser
Seminar	National	ISTE Engineering Education Congress and National Seminar on "Sustainability of Engineering Education"	Department of Chemical Engineering, NIT Jalandhar	26/03/2015	27/03/2015	Organiser
Chemcon 2018	National	Indian Chemical Engineering Congress (CHEMCON - 2018), 71th Annual Session of Indian Institute of Chemical Engineers and International Seminar on "Seamless Chemical Engineering in Service of Humanity: Innovations, Opportunities and Challenges"	Department of Chemical Engineering, NIT Jalandhar	27/12/2018	30/12/2018	Organiser
Short Term Course	National	Occupational Safety and Environmental Management in Process Industries	Department of Chemical Engineering NIT Jalandhar	03/06/2019	07/06/2019	
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PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Navneet Sood	Blending of EVA with other polymers	In-progress	2020	Dr. Shailendra Bajpai
Jaspreet Kaur	Value added chemical production from the by products of the biodiesel industry	In-progress	2020	Dr. Poonam Gera
Vijay Sodhi	Studies on Hybrid System for Minimizing Excess Sludge from Biological Treatment of Tannery Effluent	Submitted	2019	Dr. Ajay Bansal
Ravneet Kaur	Biomass Conversion and Utilisation	Submitted	2019	Dr. Poonam Gera
Kashish Mehta	Utilisation of heterogeneous catalyst for biodiesel production and its application in CI Engine	Submitted	2019	Dr. Neetu Divya
Kanwar Pal Singh	Thermo chemical Conversion of Biomass	Completed	2018	Dr. Poonam Gera
N K Srivastava	Biological Treatment of Chromium from Industrial Waste Water	Completed	2016	Dr. T R Sreekrishnan
Barjinder Bhalla	Study of Industrial By Products as Permeable Reactive Barriers for Landfill leachate Management	Completed	2016	Dr. M S Saini

Ekonkar Singh Johal	Study of Effluents, its treatment and design of Anaerobic Digester for Jalandhar Municipal Waste	Completed	2016	Dr. M S Saini
Neetu Singh	Biodiesel Production by Enzymatic Transesterification and its application in CI Engines	Completed	2016	Dr. A K Sarma
Manoj Kumar Jindal	Low temperature catalytic hydrothermal conversion of wood biomass to biocrude	Completed	2016	
Prashant Kumar	Process optimization of biodiesel production using hybrid heterogeneous catalyst	Completed	2015	Dr. Ajay Bansal
Shailendra Bajpai	Chromium (VI) removal from Aqueous streams using low cost adsorbent, weakly anionic resins and Nano filtration process-A comparative study	Completed	2014	Dr. S K Gupta
Jagdish Naik	Study on application of steam and horizontal well technology to improve heavy oil recovery	Completed	2014	Dr. Pushpa Jha
Shailendra Kumar Singh	Biosorption of Heavy metals using Chlorella Minutissima	Completed	2013	Dr. A Dey
Rajesh Sharma	Development of Mesoporous titania-silica catalysts for hydroprocessing of petroleum fractions and biomass	Completed	2013	Dr. A K Sinha
Tarun Kumar Roy	Numerical Predication of Oil Dispersion in the Coastal & Ocean Region	Completed	2012	Dr. J S Mani
Poonam Chadha	Development of Improved Process for Transesterification of vegetable oil	Completed	2012	V P Singh
Varsha	Studies on the Biological Sulfide Removal from Aqueous Samples	Completed	2011	Dr. Apurba Dey
Vidushi Shukla	Studies on the Kinetics of Bacterial Adherence on Textile Fabrics	Completed	2011	Dr. S Ghosh
Gopal Krishan Sharma	Study on Re-Refining of Used Lubricating Oils	Completed	2010	
Anil Kumar	Modelling and Simulation of Hydraulic Fracturing	Completed	2010	Dr. S K Puri
Ram Bilash Choudhary	Studies in Composite Tribochemical Films and Action Mechanism of Antiwear Additives	Completed	2006	Dr. M R Tyagi