

BIODATA

Shashi Bala Gautam

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EDUCATIONAL DETAILS

1. Ph.D. : Chemical Engineering (Awarded July, 2020)		
Topic	:	Removal of As (III) from Contaminated Water using Modified Coconut Husk
Institute	:	Motilal Nehru National Institute of Technology, Parayagraj.
Percentage	:	8.5 (CGPA)
2. M. Tech. : Chemical Engineering (Awarded, 2012)		
Topic	:	Studies on the Arsenic Removal from Contaminated Water
Institute	:	Harcourt Butler Technological Institute of Tech., Kanpur
Percentage	:	77.05%
3. B. Tech. : Chemical Engineering (Awarded, 2008)		
Topic	:	Study on Biodeisel a Plant Oil Waste Renewal Fuel
Institute	:	Bundelkhand Institute of Engineering & Technology, Jhansi
Percentage	:	73.36%

RESEARCH PUBLICATIONS

Total : 21

Referred SCI Journal	:	15
Conferences	:	06
Book Chapter	:	03

PROFESSIONAL EXPERIENCE

Sl. No.	Periods	Name of Institute/Organization
1.	From 08/10/2021 to till date	Lecturer , Chemical Engineering Department, Government Polytechnic, Kanpur
2.	From 03/08/09 to 06/06/2010	Research Associate , Motilal Nehru Technology, National Institute Allahabad (U.P.) 211 004.
3.	From July 2008 to June 2009	Guest faculty , Institute of Engineering & Technology, Sitapur Road, Lucknow-226021

SUBJECTS TAUGHT

- Fluid Mechanics, CRE, Heat Transfer, Chemical Engineering and thermodynamic and Energy Resource Utilization

LISTS OF PUBLICATIONS (21)

PAPERS PUBLISHED IN REFERRED JOURNALS (15)

Sl. No.	Detail of the paper	Impact factor	ISSN/ISBN No.
1.	Gautam Shashi Bala , Kamsonlian Suantak, Alam Md. Siraj (2019), Equilibrium and thermodynamic aspects of As(III) with temperature onto raw coconut husk and iron impregnated coconut husk, Research Journal of Chemistry and Environment , 23(4), 57-69.	0.163	0972 - 0626
2.	Shashi Bala Gautam , Siraj Alam and Suantak Kamsonlian (2017) Adsorptive Removal of As(III) from Aqueous Solution by Raw Coconut Husk and Iron Impregnated Coconut Husk: Kinetics and Equilibrium Analyses, International Journal of Chemical Reactor Engineering , (IJCRE), 15(2), 1-14.	1.152	1542-6580
3.	Shashi Bala Gautam , Siraj Alam and Suantak Kamsonlian (2015) Adsorption of As (III) on iron coated quartz sand: influence of temperature on the equilibrium isotherm, thermodynamics and isosteric heat of adsorption analysis, International Journal of Chemical Reactor Engineering (IJCRE), 14(1), 2015, 289-298,.	1.152	1542-6580
4.	Shashi Bala , R.C. Vaishya, G.L. Devnani, Anil K. Mathur, (2014) Adsorption of As (III) from aqueous solutions by iron impregnated quartz, lignite and silica sand: kinetic study and equilibrium isotherm analysis, Desalination and Water Treatment , 52(16-18) 3178-3190., TAYLOR AND FRANCIS	1.234	1944-3986
5.	Prabhat Thakur, Rahul, Anil Kumar Mathur, Shashi Bala Gautam , Chanrajit Balomajumder, (2013). Determination of mass transfer coefficients for mixture of compost, sugarcane bgassee and granulated activated carbon as packing media in biofilter. Bioremediation Journal 17(1), 61-70. TAYLOR AND FRANCIS	1.32	1088-9868
6.	Rahul, Anil Kumar Mathur, Shashi Bala , and Chandrajitbalo Majumder (2012). Modelling and computational fluid dynamic behaviour of a biofilter treating benzene, Bioresource Technology , 125, 200-207. ELSEVIER	7.539	0960-8524
7.	Anil K. Mathur, Shashi Bala , C. B. Majumder, Siddik Sarkar (2010). Biodegradation kinetics modelling of <i>p</i> -cresol by <i>Pseudomonas putida</i> in batch reactor and in continuous bioreactor packed with calcium alginate beads, Water Science and Technology , 62(12), 2920–2929.	0.79	0273-1223
8.	Anil K. Mathur, C. B. Majumder, Dhananjay Singh, Shashi Bala , (2010). Biodegradation of mono-chlorobenzene laden waste gas stream by using a trickle bed air biofilter, Journal of Environmental Biology , 31(4), 445-451.	0.781	0254-8704
9.	Anil K. Mathur, Rahul, C.B. Majumder, S.B. Gautam , I.J. Mcnaught (2012). Modelling and kinetic aspects of a BTEX contaminated air - treating biofilter, International Journal of Environmental Studies , 69(3), 475-489. TAYLOR AND FRANCIS	-	0020-7233
10.	Piyush Verma, Abhishek Yadav, Manish, Anurag Singh, Vimlesh Gupta, Shashi Bala Gautam (2019), A Study on Removal of Arsenic from Industrial Waste Water, International Journal for Research in Applied Science & Engineering Technology , 6(1), 1-4.	-	2321-9653
11.	Anmol Joshi, Amit Kumar, Saurabh Kumar Pandey, Shashi Bala Gautam (2019), Study on Zero Discharge Plant for Waste Water Treatment of a Yeast. International Journal for Scientific Research & Development , 7(2), 180-185.	-	2321-0613

12.	Utkarsh Shukla, Anmol Joshi, Navneet Tripathi, Shashi Bala Gautam (2019), Removal and Recovery of Ammonia from Urea Fertilizer Plant Waste. International Journal for Scientific Research & Development , 7(2), 797-800.	-	2321-0613
13	Modeling of As(III) adsorption using Fe impregnated polythene terneplate char matrix: A statistical approach, Gazi Mohd Sawood, Shashi Bala Gautam , Asutosh Mishra , Shobhit Dixit. <i>Water Science & Technology</i>	1.123	Vol 00 No 0, 1 doi: 10.2166/wst.2022.300
14	Modified paddy husk carbon with linked fibrils of FeHO 2 using aluminium as the surface regulator for enhanced As (III) removal in fixed bed system. Gazi Mohd Sawood, Shashi Bala Gautam , Asutosh Mishra International Journal of Chemical Reactor Engineering , (IJCRE), 15(2), 1-14.	0.980	DOI:10.1515/ijcre-2023-0122
15	Optimization of process inputs for the synthesis of waste Rice bran oil isolated <i>Pseudomonas aeruginosa</i> MTCC 424 Biosurfactant using response surface methodology for oil recovery applications. Gazi Mohd Sawood, Shashi Bala Gautam , Asutosh Mishra, Rakesh Trividi. <i>Bioresource Technology Reports</i> .	2.73	14(9):1006 53

PAPERS PUBLISHED IN CONFERENCES (04)

1. **Shashi Bala Gautam**, Siraj Alam and Suantak Kamsonlian (2020). Adsorption of arsenic (III) on surface modified coconut in fixed bed column 'CHEM-CONFLUX20', an International Conference on Energy and Environmental Technologies For Sustainable Development, at MNNIT Allahabd, Febraury 14-16, 2020, *Paryagraj*.
2. **Shashi Bala** 5th all India student conference on Science and spiritual quest (AISSQ 2010), at MNNIT, *Allahabad*, India, January, 15-17, *Allahabad*.
3. Anil Kumar Mathur, **Shashi Bala**, Abhishek, Yogendra Pratap Singh, (2010). Production of Biodiesel by CO₂ Sequestration by Microalgae, First International conference on New Frontiers in BIOFUELS, at Delhi Technical University, January 18-19, 2010. *New Delhi*.
4. Anil Kumar Mathur, **Shashi Bala**, Ankur Misra, (2009). Bio-fixation of atmospheric carbon dioxide using algal strains and further harvesting hydrocarbon derivatives, International conference on issue and challenges in Energy conversion and Management, at I.I.T. BHU, December 18-20, 2009, *Varanasi*.

BOOK CHAPTER

1. Shashi Bala Gautam, Shobhit Dixit, Vijay Laxmi Yadav, Gaurav Mishra, Ghazi Mohd Sawood, Neeta Singh. Utilization of Agro-waste as a Reinforcement Material in Polymer Matrix for Biodegradable Packaging Application. pp183-206 **Clean Energy Production Technologies**
2. Neeta Singh, Shashi Bala Gautam, Shobhit Dixit, Vijay Laxmi Yadav, Gaurav Mishra, Ghazi Mohd Sawood,. Bioenergy from Agro-waste: A Sustainable Solution for Energy Needs. pp 207- 249. **Clean Energy Production Technologies**
3. Gazi Mohd Sawood, Shashi Bala Gautam, Asutosh Mishra, Futuristic Trends in Chemical. Futuristic Trends in Chemical, pp.157-172, **Material Sciences & Nano Technology**.

CONFERENCES/SEMINAR/WORKSHOP ATTENDED

Title	Duration	Organized at
Workshop on Next Generation of Chemical Manufacturing & Waste Management	29 th July-2 nd August, 2020	Department of Chemical Engineering, IET, Lucknow
Short term course on Innovation and Research area in Science and technology.	27 to 31 May, 2019	Department of Chemical Engineering, Dr. AITH, Kanpur
Short term course on Entrepreneurial opportunity identification and project formulation in service sector.	13 to 17 May, 2019	Department of Chemical Engineering, Dr. AITH, Kanpur
Short term course on Sustainable development and natural resources management.	29/04/2019 to 03/05/2019	Department of Chemical Engineering, Dr. AITH, Kanpur
Workshop on Human Value	28 to 31 July 2018	Department of Chemical Engineering, HBTU, Kanpur
Workshop on Advance in Chemical Engineering and Technology.	23 to 24 March, 2018	Department of Chemical Engineering, IET, Lucknow
Workshop on Renewal Energy and environment	27 February, 2018	Department of Chemical Engineering, IET, Lucknow
Workshop on Experimental Approach in Analytical Electrochemistry (EAAE-2017)	28 January, 2017	Department of Chemical Engineering, MNNIT, Prayagraj
Workshop on Energy Efficiency Management (EEM-2017)	24-25 March, 2017	Department of Chemical Engineering, MNNIT, Prayagraj
Workshop on ENERGY Efficiency Management (EEM-2017)	23 to 24 March 2017	Department of Chemical Engineering, MNNIT, Prayagraj
Short term course on Modelling and Optimization of Chemical & Biochemical Process (MOCBP-2017)	16-21 January, 2017	Department of Chemical Engineering, MNNIT, Prayagraj
Chemi-Con 2022- session chair	Feb 2020	Department of Chemical Engineering, HBTU , Kanpur