

Dr. Zubair Ahmed

(HEAD OF THE DEPARTMENT OF ENVIRONMENT ENGINEERING (MS AND PHD) PROGRAM & BACHOLARS OF ENVIRONMENT SCIENCE) PROGRAM

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BIBLIOGRAPHY

Prof. Dr. Zubair Ahmed has been involved in several national and international environmental projects including implementation of cleaner production technologies in textile industries, techno-economic studies of wastewater treatment plants, environmental impact assessments and environmental audits of industrial units, pilot plant studies for domestic/industrial wastewater treatment using innovative processes such as sulfur based autotrophic denitrification & up-flow anaerobic sludge blanket process. Dr. Ahmed has more than 26 years of teaching, research, and consulting experience. His primary research interest is in biological wastewater treatment, particularly, in the application of membrane bioreactors for nutrient removal, bio fouling, microbial community structure in sludges, anaerobic digestion of waste, and the fate of emerging pollutants in MBRs. He has also worked on development of different adsorbents for water treatment. Currently, he is focusing on resource recovery from waste. His research output has been published in leading peer-reviewed journals.

TEACHING & RESEARCH

- 1-Physical, Chemical and Biological Processes (MS)
- 2-Waste Water Treatment and Design (MS)
- 3-Advanced water and Waste water Treatment design (PHD)
- 4-Water Reuse (PHD)

[Research-Map-Dr-Zubair-Ahmed.pdf \(muett.edu.pk\)](#)

RESEARCH PROJECTS

	Project title	Funding agency	Funding Amount	Role
1.	Eco-innovation for sustainable industrial growth of major industrial sectors in Special Economic zones under CPEC (2022-2025)	HEC, Pakistan	25 million PKR	PI
2.	A3MBR for reclamation of denim mills' wastewater for reuse purpose (2022-2025)	HEC, Pakistan	8 million PKR	PI
3.	Production of high-quality potable water using riverbank filtration/canal bank filtration from the Indus River	KIST, Korea	0.5 million KRW	PI
4.	Treatment and reuse of wastewater of fish processing industry (2018-2019)	USPCASW, Jamshoro	3 million PKR	PI
5.	Eco-innovation in textile processing industry of KITE for sustainable product processing (2018-2019)	USPCASW, Jamshoro	3 million PKR	PI

6.	Production of Drinking Water from Indus River through Canal Bank Filtration for Mehran University Jamshoro (2018-2019)	USPCASW, Jamshoro	3 million PKR	PI
7.	Treatment of Sugar Distillery Effluent Using Anaerobic-Aerobic Membrane Bioreactor (AnAMBR) (2017-2018)	KIST, Korea	1 million KRW	PI
8.	Development of anaerobic / anoxic-aerobic membrane bioreactor for Biodegradation Persistent Organic Pollutants (POPs) (2013-2015)	KACST, KSA	2 million SAR	Co-PI
9.	Removal of Boron from Produced Water Using Electrocoagulation (2014)	KAU, KSA	50,000 SAR	PI
10.	Adsorption of ammonium ion on Alginate-Modified Polyurethane in water. (2014)	KAU, KSA	50,000 SAR	PI

PUBLICATIONS

Journal Papers:

- 1) Shane Zehra, Syeda Sara Hassan, Zubair Ahmed,. (2021). Effective removal of arsenic in water by inductively coupled plasma mass spectrometry: Equilibrium and kinetic study. Research Square. (Preprint). <http://dx.doi.org/10.21203/rs.3.rs-245998/v1>.
- 2) Muhammad Bilal A. Zulfiqar Ali, Umama Soomro, Muhammad Muqet, **Zubair Ahmed**, Adsorption of Indigo Carmine dye onto the surface-modified adsorbent prepared from municipal waste and simulation using deep neural network, Journal of Hazardous Materials, **2020** (in press), DOI: 10.1016/j.jhazmat.2020.124433.
- 3) Jessica Lawrence, R.B. Mahar, Jeffrey L. Ullman, **Zubair Ahmed**, Digestion of linoleic acid using an anaerobic fluidized bed reactor, Desalination and water treatment, 206 (**2020**) 144–152.
- 4) Nabi Bux Mullah, R. B. Mahar, Zeeshan Khatri, **Zubair Ahmed**, Development and application of Electrospun Modified Polyvinylidene fluoride (PVDF) nanofibers membrane for biofouling control in membrane bioreactor, Desalination and water treatment, **2020** (in press).
- 5) Ivanov, V., Stabnikov, V., Stabnikova, O., **Ahmed, Z.**, Biocementation technology for construction of artificial oasis in sandy desert. J. King Saud Univ. - Eng. Sci. **2019**; DOI: 10.1016/j.jksues.2019.07.003
- 6) Ivanov V., Stabnikov V., Stabnikova O., Salyuk A., Shapovalov E., **Ahmed Z.**, Tay J.H. Iron-containing clay and hematite iron ore in slurry-phase anaerobic digestion of chicken manure. AIMS Materials Science, 6 (5): 807–817. **2019**; DOI: 10.3934/mat.2019.5.806
- 7) A. Ullah, S. S. Hassan, A. K. Ansari, N. B. Jalbani, R. B. Mahar, **Z. Ahmed**, R. Z. Brohi, M. Y. Talpur, Environmental assessment of toxic metals from Canal on Mehran University water treatment plant, Jamshoro, Pakistan, Int. J. Environ. Sci. Technol., **2018**. DOI:10.1007/s13762-018-2039-6
- 8) Jinwoo Cho, Daniel Cha, Seunghwan Kim, Sewoon Kim, **Zubair Ahmed**, Flux model for the membrane distillation process to treat wastewater: effect of solids concentration, Journal of Membrane Science; 566: 396-405, 15 Nov **2018**; DOI: 10.1016/j.memsci.2018.09.018
- 9) Ali Mohammad Yahya Radwan, Saleh Faraj Magram and **Zubair Ahmed**, Adsorption of Acenaphthene Using Date Seed Activated Carbon, Journal of Environmental Science and Technology; 11(1): 10-15, **2018**; DOI: 10.3923/jest.2018.10.15

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- 11) **Zubair Ahmed**, Ki-Pal Kim & Jaewon Shin, Kinetic, thermodynamic, and equilibrium studies for adsorption of ammonium ion on modified polyurethane, Desalination and Water Treatment, 57 (32) p14849-14857, **2016**; DOI: 10.1080/19443994.2015.1067834
- 12) V. Ivanov, V. Stabnikov, **Z. Ahmed**, S. Dobrenko, A. Saliuk, Production and applications of crude polyhydroxyalkanoate-containing bioplastic from the organic fraction of municipal solid waste. International Journal of Environmental Science and Technology; 12(2): 725–738, 02/**2015**; DOI:10.1007/s13762-014-0505-3
- 13) Mohamed Hasnain Isa, Ezerie Henry Ezechi, **Zubair Ahmed**, Saleh Faraj Magram, Shamsul Rahman Mohamed Kutty, Boron removal by electrocoagulation and recovery, Water Research; 51: 113-123, March **2015**, DOI:10.1016/j.watres.2013.12.024
- 14) Ivanov V., Stabnikov V., Guo CH, Stabnikova O., **Ahmed Z.**, Kim IS, Shuy EB., Wastewater engineering applications of BiolronTech process based on the biogeochemical cycle of iron bioreduction and (bio)oxidation, AIMS Environmental Journal 1(2):53-66; **2014**; DOI:10.3934/environsci.2014.2.53
- 15) Toor Umair Ali, **Zubair Ahmed**, Dong-Jin Kim, Estimation of N₂O emission during wastewater nitrification with activated sludge: Effect of ammonium and nitrite concentration by regression analysis. Journal of Industrial and Engineering Chemistry, 20(4): 2574-2579, July 25, **2014**; DOI:10.1016/j.jiec.2013.10.042
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- 17) **Zubair Ahmed**, Sung-Min Kim, In S Kim, Min-Soo Bum, Kyu-Jung Chae, Jin-Ho Joo, Yong Sik Ok, Sang-Eun Oh, Nitrification and denitrification using biofilters packed with sulfur and limestone at a pilot-scale municipal wastewater treatment plant, Environmental Technology 06/**2012**; 33(10-12):1271-8. DOI:10.1080/09593330.2011.619581
- 18) **Zubair Ahmed**, Jihyeon Song, Removal of gaseous toluene using immobilized *Candida tropicalis* in a fluidized bed bioreactor, 3 Biotech 09/**2011**; 1(2):111-116. DOI:10.1007/s13205-011-0015-7
- 19) Ki-Pal Kim, **Zubair Ahmed**, Kyung-Guen Song, Saleh F. Magram, Maged H. H. Daoud, Kyu-Hong Ahn, Ki-Jung Paeng, Adsorption of Aluminum Ion from Water on Alginate-Modified Polyurethane, Journal of chemical engineering of Japan 07/**2011**; 44:247-255. DOI:10.1252/jcej.10we154
- 20) **Zubair Ahmed**, Microbial communities in nutrient-removing membrane bioreactors - A review, Journal of Environmental Science and Technology 01/**2011**; 5(1):16-28. DOI:10.3923/jest.2012.16.28
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1. Muhammad Asif Jokhio, Junaid Ahmed Kori, **Zubair Ahmed**, Microbial evaluation of sludge samples from pilot-scale membrane bioreactor using 16S rRNA gene metagenomic, University of Haripur KPK, Pakistan, 14-17 January 2019
2. Shan Saleem, **Zubair Ahmed** Treatment of Spent Wash Using Anaerobic/Anoxic-Aerobic Membrane Bioreactor, 5th international conference on sustainable water and resource management University of Haripur KPK, Pakistan, 15-17 January 2019
3. **Zubair Ahmed**, Volodymyr Ivanov, Viktor Stabnikov, Evgen Shapovalov, Sergei Zhadan, Olena Stabnikova, Barkatullah, and Anatoliy Salyuk, Large-scale application of iron-containing mineral resources in environmental engineering, *1st International Conference on Sustainable Mineral Resource Development and Utilization (SMRDU'19)*, KLC-PCSIR Laboratories, Karachi, Pakistan, Feb, 12-13, 2019
4. Kiran Memon, Barkatullah, **Zubair Ahmed**, Treatment of a Shrimp processing effluent using a membrane bio-reactor, 5th international conference on sustainable water and resource management University of Haripur KPK, Pakistan, 15-17 January 2019
5. Umama Soomro, **Zubair Ahmed**, Adsorption of Indigo Carmine Dye on Chemically Modified Adsorbent Prepared from Municipal Solid Waste, 2nd Young Researchers' National Conference on Water and Environment, Jamshoro, Pakistan, 2018
6. Jessica Lawrence, **Zubair Ahmed**, R.B. Mahar, Treatment of Edible Oil Industrial Wastewater by using Anaerobic Fluidized Bed Reactor, 2nd Young Researchers' National Conference on Water and Environment, Jamshoro, Pakistan, 2018
7. Afaq Ahmad, Uzma Imran, **Zubair Ahmed**, Muhammad Sultan, Developing and Testing of Activated Carbon-Based Desiccant Material for Adsorption Desalination Applications, 2nd Young Researchers' National Conference on Water and Environment, Jamshoro, Pakistan, 2018

8. **Zubair Ahmed**, Saleh F. Magram, Effects of SRT On Biodegradation of POPs In Sequencing Anoxic/anaerobic-aerobic Membrane Bioreactor, IWA Regional Conference on Water Reuse and Energy, South Korea, **2014**.
9. **Zubair Ahmed**, Saleh F. Magram, Removal of Persistent Organic Pollutants in Sequencing Anoxic/Anaerobic-Aerobic Membrane Bioreactor at High SRT, 4th International Conference on Environment and BioScience (ICEBS 2014), South Korea, **2014**.
10. Erisa Viony Putri, Mohd Fadhil Md Din, **Zubair Ahmed**, Haryati Jamaluddin, Shreeshivadasan Chelliapan, Investigation of microalgae for high lipid content using palm oil mill effluent (Pome) as carbon source, International conference on environment and industrial innovation. IPCBEE, 12: 85-89, **2011**.
11. Erisa Viony Putri, Mohd Fadhil Md Din, **Zubair Ahmed**, Haryati Jamaluddin, Microalgae Cultivation using Palm Oil Mill Effluent (POME) for High Lipid Production, ITS-UTM international conference 2010 on sustainable urban environment, Surabaya, Indonesia, 8-10 December **2010**.
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13. **Zubair Ahmed** and Kyu-Hong Ahn, Biological nutrient removal and changes in microbial community structure in an MBR at different organic loading rates, 7th international conference on membrane science and technology MST 2009, Kuala Lumpur, Malaysia, 13-15 May **2009**
14. **Zubair Ahmed**, Jinwoo Cho, Ki-Pal Kim, Kyu-Hong Ahn, Biological nutrients & micro-pollutants removal and microbial community structure in a membrane bioreactor, WEFTEC07, USA, October **2007**
15. **Zubair Ahmed**, Jinwoo Cho, Kyung-Guen Song, and Kyu-Hong Ahn, Optimisation of operational parameters of sequential anoxic/anaerobic membrane bioreactor (SAM) for nutrient removal from wastewater, Poster session, Efficient 2007, 4th IWA specialist conference on Efficient use and management of urban supply, Jeju Island, p 1273-1275, May **2007**
16. **Zubair Ahmed**, Jinwoo Cho, Byung-Ran Lim, Kyu-Hong Ahn, Influence of internal recycling on nitrogen and phosphorus removal and microbial community structure in a membrane bioreactor, Korea Society of Water & Wastewater, Daegu, E73-83, 15-16 November **2006**
17. **Zubair Ahmed**, Jinwoo Cho, Kyung-Guen song and Kyu-Hong Ahn, Influence of sludge retention time (SRT) on membrane fouling in a membrane bioreactor (SAM), Korean Society of Environmental Engineers, Kwangryang University, p 157-164, 2-3 November **2006**.
18. Ahn Kyu-Hong, An Suk, Jang Min-Su, Kim Jun Song, Maeng Seonkyu, Kim Ki-Pal, Hong JunSuk, **Zubair Ahmed**, a feasibility study of medium pressure lamp in UV/H₂O₂ system for secondary effluent reclamation, Proceeding Korea Society of Water and Wastewater, KAIST, p 904-9007, May 1-3, **2003**
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23. Volodymyr N. Ivanov, In S. Kim, **Zubair Ahmed**, Elena V. Stabnikova, Victoria O. Krashinko, Function of iron in anaerobic digestion of landfill organic matter, Poster session, IInd international Symposium on anaerobic digestion of solid wastes, Barcelona, p 228-231, 15-17 June **1999**
24. **Zubair Ahmed**, Vladimir Ivanov, In S. Kim, Methanogenic fermentation of fatty acids mediated by iron (II)., Spring symposium, Korean Solid Wastes Engineering society, p 29-33, **1999**.

RESEARCH SUPERVISION

S.No.	Title	Student Name	Program	Status
1.	Cultivation Of Microalgae Using Palm Oil Mill Effluent For Lipid Production	Erisa Viony Putri	MS (Environmental Engineering)	Completed
2.	Removal Of Selected Micro-Pollutants From Water In A Reactor Using Date Seeds	Ali Mohammad Yahya Radwan	MS (Civil Engineering)	Completed
3.	Removal Of Anthracene From Water Using Granular Activated Carbon Prepared From The Seeds Of Mucuna Mutisiana (Kharpat	Doulat Ram	MS (Environmental Engineering)	Completed
4.	Treatment Of Sugar Distillery Effluent Using Anaerobic-Aerobic Membrane Bioreactor (Anambr)	Shan Saleem	MS (Environmental Engineering)	Completed
5.	Adsorption Of Indigo Carmine Dye On Chemically Modified Adsorbent Prepared From Municipal Solid Waste	Umama Soomro	MS (Environmental Engineering)	Completed
6.	Digestion Of Linoleic Acid From Wastewater By Using An Anaerobic Fluidized Bed Reactor	Jessica Lawrence	MS (Environmental Engineering)	Completed
7.	Characterization Of Biofilm Formed In An Intermittent Drinking Water Distribution System At Muet, Jamshoro	Huma Tariq	MS (Environmental Engineering)	Completed
8.	Microbial Community Dynamics In Membrane Bioreactor Treating High Strength Waste-Water For Reuse Purpose	Kashaf Somroo	MS (Wash)	Completed
9.	Optimization Of Operational Parameter For A Sequencing Anaerobic-Aerobic Membrane Bio-Reactor Treating Fish Processing Industry Effluent	Kiran Memon	MS (Environmental Engineering)	Completed

10.	Pollution Load Reduction Through Wastewater Treatment And Water Reuse In The Fish/Seafood Processing Industry	Suresh Kumar	MS (Environmental Engineering)	Completed
11.	Assessment Of Microbial Contamination In Drinking Water Of Railo Miyan, Jamshoro.	Uroosa Javed	MS (Wash)	Completed
12.	Biodegradation Of Benzene Gas By Candida Tropicalis	Nik Nurhidayu Nik Mut	MS (Environmental Engineering)	Completed
13.	Removal Of Anthracene Using Soil-Activated Carbon Composite Adsorbent In Column	Asma Laghari	MS (Environmental Engineering)	Completed
14.	Removal Of Organic Carbon And Microbial Contamination Through Soil Column Simulating Canal Bank Filtration	Bakhtawar Jokhio	MS (Environmental Engineering)	Completed
15.	Synthesis And Application Of Nanofiber Membrane For Biofouling Control In Membrane Bioreactors	Nabi Baksh Mallah	PhD Environmental Engineering	Currently Supervising
16.	Treatment Of Indigo Dye Effluent Using Anaerobic/Anoxic-Aerobic Membrane Bioreactor	Aqsa Channa	MS Environmental Engineering	Currently Supervising
17.	Treatment Of Wastewater Generated From The USPCAS-W Center By Using Membrane Bioreactor	Faiza Bhutto	MS Environmental Engineering	Currently Supervising
18.	Removal of arsenic using brown seaweed (sargassum polycystum) derived biochar and magnetic biochar – column and batch studies	Satesh Kumar	MS Environmental Engineering	Currently Supervising
19.	Pretreatment of melanoidins using advanced techniques to enhance decolorization and anaerobic digestion	Javid Ali	MS Environmental Engineering	Currently Supervising

20.	Pre-treatment of brown algae for enhanced biogas production in anaerobic digestion	Aamir Hussain Dar	MS Environmental Engineering	Currently Supervising
21.	Removal Of Indigo Carmine Dye using natural bio sorbent prepared from press mud	Maarij Memon	MS Environmental Engineering	Currently Supervising
22.	Biodegradation of Paracetamol through Microalgal-Bacterial Consortium	Poja Devi	MS Environmental Engineering	Currently Supervising

SERVICES

- Development of Water Safety Plan (WSP) for water supply system of Jacobabad city, Sindh, 2021
- Rehabilitation of sewage treatment plant of United Energy Pakistan (UEP), 2018
- Situation analysis of solid waste generation from oil & gas fields of United Energy Pakistan, 2018
- Environmental Audits of Denim mills in Karachi, Pakistan, 2018- 2019
- Tech-Economic study for the construction of combined effluent treatment plant in Korangi, Karachi, 1995-1998
- Environmental Impact Assessments of fertilizer companies, oil refineries, and other industries
- Environmental Audits of 60 textile processing industry in Pakistan, 2001-2002
- Training of municipal staff of Jacobabad city for water treatment processes, 2020
- HEAD OF THE DEPARTMENT OF ENVIRONMENT ENGINEERING (MS AND PHD) PROGRAM
- HEAD OF THE DEPARTMENT OF BACHOLARS of ENVIRONMENT SCIENCE PROGRAM
- Resource person of USPCASW, Gender committee
- Members of technical instrument committee of USPCASW, MUET Jamshoro
- Internal and expert member of MS and PHD thesis reviewed.