



Dr. Nuhu Dalhat Mu'azu's CV

Professor

Personal Data

Nationality | Nigerian
Department | Environmental Engineering
 Imam Abdulrahman bin Faisal University
 Damman, Saudi Arabia
Official IAU Email | nmdalhat@iau.edu.sa
Office Phone No | +966 13 333 1695
Mobile No | +966 507532689



Language Proficiency

Language	Read	Write	Speak
Arabic	ممتاز	جيد جدا	معرض
English	ممتاز	ممتاز	ممتاز
Others (Hausa)	ممتاز	ممتاز	ممتاز

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2010	PhD	King Fahd University of Petroleum and Minerals	Dhahran, Saudi Arabia
2005	MSc	King Fahd University of Petroleum and Minerals	Dhahran, Saudi Arabia
2000	BSc	Ahmadu Bello University	Zaria, Nigeria

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Electrochemical Oxidation of Phenol in Simulated Petrochemical Wastewater Using Boron Doped Diamond Electrode: Investigating Effects of CN ⁻ , NH ₄ ⁺ and S ₂ - Presence
Master	Effect of Water table Rise on LNAPL Entrapment in Uniform & Well-graded Sands



Professional Record:

Job Rank	Place and Address of Work	Date
Associate Professor	Imam Abdulrahman bib Faisal University, Dammam, Saudi Arabia	2018-till date
Assistant Professor	University of Dammam, Dammam, Saudi Arabia	2010-2017
Lecturer	Civil Engineering Department, King Fahd University of Petroleum and Mineral, Dhahran, Saudi Arabia	2005-2010
Research Assistant	Civil Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia	2002-2005
Assistant Lecturer	Civil Engineering Department, Ahmadu Bello University, Zaria, Nigeria	2002-2002
National Service Corps member	Osun State Environmental Protection Agency, Osogbo Osun State, Nigeria	2001-2002

Administrative Positions Held:

Administrative Position	Office	Date
Coordinator Dept research committee	Environmental Engineering Department UoD	2017- till date
Coordinator community service committee	College of Engineering and Environmental Engineering Department UoD	2015- till date
Coordinator Summer training program committee	College of Engineering and Environmental Engineering Department UoD	2012- Date
Coordinator senior design project committee	College of Engineering and Environmental Engineering Department UoD	2011- till date



Scientific Achievements

Published Refereed Scientific Researches

No	Research Title	Journal Title	Authors	Publication Date	Volume, Issue, number & Pages
1	Pomegranate peel adsorbents for water pollutants removal: preparation, characterization and applications. https://doi.org/10.1080/15226514.2025.2484292	International Journal of Phytoremediation	Mohammed Awwal Suleiman, Muhammad Abbas Ahmad Zaini, and Nuhu Dalhat Mu'azu	04 Apr 2025	
2	Synthesis and performance evaluation of a novel synthesized nitrogen-rich cross-linked polyamine for improved mercury uptake from water. https://doi.org/10.1080/03067319.2025.2474487	International Journal of Environmental analytical chemistry	Nuhu Dalhat Mu'azu, Taye Kazeem, Othman Charles S. Al Hamouz, Shamsuddeen Haladu, Tariq Mohammed, Ahmad Hussaini Jagaba Hissa Alqahtani	March 2025	
3	Synergistic Effects of Zn-Rich Layered Double Hydroxides on the Corrosion Resistance of PVDF-Based Coatings in Marine Environments https://doi.org/10.3390/polym17030331	Polymers	Hissah A. Alqahtani, Jwahr M. AlGhamdi, Nuhu Dalhat Mu'azu	14/01/2025	3410367
4	Annealing Temperature Effects of Seeded ZnO Thin Films on Efficiency of Photocatalytic and Photoelectrocatalytic Degradation of Tetracycline Hydrochloride in Water. https://doi.org/10.3390/catal15010071	Catalysts	Ghaida M Wazzan, Jwahr M AlGhamdi, Nuhu Dalhat Mu'azu, Tarek Said Kayed, Emre Cevik, Khaled A Elsayed	25/01/2025	15 (1)
5	A review of performance, mechanism, and challenges of layered double hydroxide-based biocomposites for the adsorptive removal of dye contaminants from water and wastewater. https://doi.org/10.1016/j.jwpe.2024.106837	Journal of Water Process Engineering	Salman Ahmad, Ghulam Mujtaba, Mukarram Zubair, Mansoor Ul Hassan Shah, Muhammad Daud, Nuhu Dalhat Mu'azu, Mamdouh A Al-Harhi	2025	70 (106837)



6	Synthesis of LDH-MgAl and LDH-MgFe composites for the efficient removal of the antibiotic from water https://doi.org/10.1007/s11356-024-34837-y	Environmental Science and Pollution Research	Mohammad Saood Manzar, Pugeseshwary Palaniandy, Jordana Georgin, Dison Stracke Pflingsten Franco, Mukarram Zubair, Nuhu Dalhat Muazu, Wamda Faisal, Nouredine El Messaoudi	2024-09	31 (43)
	Comparative adsorption of tetracycline by acid-modified silicomanganese fumes: kinetic and process modelling https://doi.org/10.1080/03067319.2024.2429788	International Journal of Environmental Analytical Chemistry	MS Manzar, T Ahmad, M Zubair, M Nasir, HA Alqahtani, I Chowhary, ND Mu'azu, L Meili, IU Ahmed, ML Firmansyah, N Ullah (2024)	2024	2024
7	Advancements and prospects in the utilization of metal ions and polymers for enhancing aerobic granulation during industrial effluent treatment and resource recovery https://doi.org/10.1016/j.jwpe.2024.105972	Journal of Water Process Engineering	Ahmad Hussaini Jagaba, Dahiru U Lawal, Ismail Abdulazeez, Ibrahim Mohammed Lawal, Nuhu Dalhat Mu'azu, Abdullahi Haruna Birniwa, Abdullahi Kilaco Usman, Haithm Salah Hagar	2024/9/1	66 Pages 105972
8	A review on the application of biochar as an innovative and sustainable biocarrier material in moving bed biofilm reactors for dye removal from environmental matrices	Environmental Geochemistry and Health	Ahmad Hussaini Jagaba, Ismail Abdulazeez, Dahiru U Lawal, Augustine Chioma Affam, Nuhu Dalhat Mu'azu, Usman Bala Soja, Abdullahi Kilaco Usman, Azmatullah Noor, Jun Wei Lim, Isam H Aljundi	2024/7	Volume 46 Issue 9 Pages 1-32
9	Nickel augmented biochar for sustaining produced water treatment to decarbonize oil and gas industrial waste using anaerobic-aerobic granular cylindrical periodic discontinuous ... https://doi.org/10.1016/j.envres.2024.119381	Environmental Research	Ahmad Hussaini Jagaba, Dahiru U Lawal, Mohamed A Yassin, Ismail Abdulazeez, Nuhu Dalhat Mu'azu, Abdullahi Kilaco Usman, Jun Wei Lim, Isam H Aljundi	2024/6/8	119381
10	Revolutionizing corrosion protection in seawater using innovative layered double hydroxide/polyvinylidene fluoride LDH@ PVDF composite coatings https://doi.org/10.1016/j.arabjc.2024.105775	Arabian Journal of Chemistry	Jwahr M AlGhamdi, Hissah A Alqahtani, Nuhu Dalhat Mu'azu, Mukarram Zubair, Shamsuddeen A Haladu, Mohammad Saood Manzar	2024	17 (6) 105775
11	Aerobic granular sludge sequencing batch reactor for high strength domestic wastewater treatment: Assessing kinetic models and microbial community dynamics	Desalination and Water Treatment	Ahmad Hussaini Jagaba, Dahiru U Lawal, Mohamed A Yassin, Ismail Abdulazeez, Nuhu Dalhat Mu'azu, Abdullahi Haruna Birniwa, Azmatullah Noor, Ibrahim Mohammed Lawal	2024/7/1	Volume 319
12	Polyethyleneglycol Bisphenol A Epichlorohydrin copolymer (PEG-BEC) as a highly efficient inhibitor for mild steel corrosion in 1 M HCl solutions https://doi.org/10.1016/j.arabjc.2024.105775	South African Journal of Chemical Engineering	Jwahr M AlGhamdi, Shamsuddeen A Haladu, Nuhu Dalhat Mu'azu, Hissah A Alqahtani, Mukarram Zubair, Mohammad Saood Manzar, Fatimah Abdulmhsin Alkhowildi, Rola Zafer Mohammed Kuban, Norah Faisal AlSubaie	2024/5/30	



	Trend and current practices of coagulation-based hybrid systems for pulp and paper mill effluent treatment: Mechanisms, optimization techniques and performance evaluation https://doi.org/10.1016/j.jclepro.2023.139543	Journal of Cleaner Production	Ahmad Hussaini Jagaba Abdullahi Haruna Birmiwa Abdullahi Kilaco Usman, Nuhu Dalhat Mu'azu, Nura Shehu Aliyu Yaro, Usman Bala Soja, Kunmi Joshua Abioye, Najib Mohammed Yahya Almabhashi Baker Nasser Saleh Al-dhaw Azmatullah Noor , Ibrahim Mohammed Lawal	Dec 2023	Volume 429, 1, 139543
14	Biochar-layered Double Hydroxide Composites for the Adsorption of Tetracycline from Water: Synthesis, Process Modeling, and Mechanism. http://dx.doi.org/10.21203/rs.3.rs-2876131/v1	Environmental Science and Pollution Research	Mukarram Zubair, Mohammad Saood Manzar, Amjad El-Qanni, Hajira Haroon, Hissah A Alqahtani, Dana Al-Hashim, Nuhu Dalhat Mu'azu, Jwahr M AlGhamdi, Shamsuddeen A Haladu, Syed Z Ahmed	Sept 2023	volume 30, pages10916 2–109180 (2023)
15	K-nearest neighbor based computational intelligence and RSM predictive models for extraction of Cadmium from contaminated soil https://doi.org/10.1016/j.asej.2022.101944	Ain Shams Engineering Journal	Nuhu Dalhat Mu'azu and S.O Sunday	August 2022	101944
16	Inhibition of low carbon steel corrosion by a cationic gemini surfactant in 10wt.% H ₂ SO ₄ and 15wt.% HCl under static condition and hydrodynamic flow. https://doi.org/10.1016/j.sajce.2022.10.006	South African Journal of Chemical Engineering	Nuhu Dalhat Mu'azu , Shamsuddeen A Haladu, Jwahr M AlGhamdi, Hissah A Alqahtani, Mohammad Saood Manzar, Mukarram Zubair, Nurudeen A Odewunmi, Nouf Essa Aldossary, Haya Saud alareefi, Zainab Hussain Alshaer, Shaikh A Ali Shaikh A. Ali, Hany M Abd El-Lateef	Jan 2023	Volume 43, Pages 232-244
17	Insight into ANN and RSM Models' Predictive Performance for Mechanistic Aspects of Cr(VI) Uptake by Layered Double Hydroxide Nanocomposites from Water c	Water	Nuhu Dalhat Mu'azu	May 2022	14, 1644 1-27
18	Household attitudes toward wastewater recycling in Saudi Arabia https://doi.org/10.1016/j.jup.2022.101372	Utilities Policy	Rimi Abubakar, Nuhu Dalhat Mu'azu	March 2022	76,101372
19	Inhibition of mild steel corrosion in 1 M H ₂ SO ₄ by a Gemini surfactant (1,6-hexyldiyl-bis-dimethyldodecylammonium bromide): ANN, RSM predictive modeling, quantum chemical and MD simulation studies https://doi.org/10.1016/j.molliq.2022.118533	Journal of Molecular Liquids	Shamsuddeen A. Haladu; Nuhu Dalhat Mu'azu , Shaikh A. Ali, Asma M. Elsh//arif, Nurudeen A. Odewunmi, Hany M. Abd El-Lateef	Jan 2022	350, 118533
20	Utilization of Oil Sludge as Rejuvenator in Hot-Mix-Asphalt Containing Reclaimed Asphalt Concrete https://doi.org/10.1016/j.conbuildmat.2022.127483	Construction and Building Materials	Muhammad Dalhat, Sami Alkhair, Nuhu Dalhat Mu'azu and Omer AlAgha	May 2022	338 127483
21	Production of magnetic biochar-steel dust composites for enhanced phosphate adsorption https://doi.org/10.1016/j.jwpe.2022.102793	Journal of Water Process Engineering	Mukarram Zubair, Mohammad Saood Manzar, Mohammed Awwal Suleiman, Daniel Pinto Fernandes, Lucas Meili, Waad Al Bin Essa, Hawra Adam, Jwahr M. AlGhamdi, Nuhu Dalhat Mu'azu , Shamsuddeen A. Haladu	April 2022	47, 102793



22	Comparative Adsorption of Eriochrome black T onto recyclable steel dust wastes: Isotherm, Kinetics and Thermodynamic Studies. https://doi.org/10.1016/j.colsurfa.2022.128828	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Mohammad Saood Manzar, Muntathir Alshabib, Umair Alam, Muhammad Nawaz, Mukarram Zubair, Anamália Ferreira Silva, Nuhu Dalhat Mu'azu , Lucas Meili, Emre Çevik, Hissah A Alqahtani	March 2022	645, 128828
23	Recent review on synthesis, evaluation, and SWOT analysis of nanostructured cellulose in construction applications https://doi.org/10.1016/j.job.2021.103747	Journal of Building Engineering	Muhammad Nasir, Muhammad Arif Aziz, Mukarram Zubair, Mohammad Saood Manzar, Noman Ashraf, Nuhu Dalhat Mu'azu , Mamdouh A. Al-Harhi	Nov 2021	46 103747
24	Generalized decay and artificial neural network models for fixed-Bed phenolic compounds adsorption onto activated date palm biochar. https://doi.org/10.1016/j.jece.2020.104711	Journal of Environmental Chemical Engineering	Muhammad A. Dalhat, Nuhu Dalhat Mu'azu , Mohammad H. Essa	Nov 2020	9(1) 104711
25	Synthesis and characterization of a series of cross-linked polyamines for removal of Eriochrome Black T from aqueous https://doi.org/10.1016/j.cjche.2020.09.052	Chinese Journal of Chemical Engineering	Mohammad Saood Manzar, Shamsuddeen A. Halad, Othman Sadeq othman Al Hamouz, Mukarram Zubair, Nuhu Dalhat Mu'azu , Aleem Qureshi, Nawaf Blaisi,	Nov 2020	32, 341-352
26	Microwave Foaming of Materials: An Emerging Field https://doi.org/10.3390/polym12112477	Polymers	Mukarram Zubair, Rebecca Ferrari, Omar Alagh, Nuhu Dalhat Mu'azu , Nawaf I. Blaisi, Manzar Mohammad Saood Ijlal Shahrakh Ateeq	Oct 2020	12(11) 2477
27	Functionalized MgAl-layered hydroxide intercalated date-palm biochar for Enhanced Uptake of Cationic dye: Kinetics, isotherm and thermodynamic studies. https://doi.org/10.1016/j.clay.2020.105587	Applied Clay Science	Mukarram Zubair, Mohammad Saood Manzar, Nuhu Dalhat Mu'azu , Ismail Anil, Nawaf I. Blaisi, Mamdouh A. Al-Harhi	April 2020	190 105587
28	Suitability of SBR for wastewater treatment and reuse: Pilot-scale reactor operated at different anoxic conditions https://doi.org/10.3390/ijerph17051617	International Journal of Environmental Research and Public Health	Omer Alagha, Ahmed Mohammed Khalafall Allazem, Alaadin A. Bukhari, Ismail Anil, Nuhu Dalhat Mu'azu	March 2020	17 (5) , 1617
29	Comparative Adsorptive Removal of Phosphate and Nitrate from Wastewater Using Biochar-MgAl LDH Nanocomposites: Coexisting Anions Effect and Mechanistic Studies https://doi.org/10.3390/nano10020336	Nanomaterials	Omar Alagha, Mohammad Saood Manzar, Mukarram Zubair, Ismail Anil; Nuhu Dalhat Mu'azu and Aleem Qureshi	Feb 2020	10, 336
30	Graphene/ternary layered double hydroxide composites: Efficient removal of anionic dye from aqueous phase https://doi.org/10.1007/s11814-019-0284-0	Korean Journal of Chemical Engineering	TS Kazeem, M Zubair, M Daud, Nuhu Dalhat Mu'azu , MA Al-Harhi	June 2019	36 (7), 1057-1068.



	New generation neurocomputing learning coupled with a hybrid neuro-fuzzy model for quantifying water quality index variable: A case study from Saudi Arabia https://doi.org/10.1016/j.ecoinf.2022.101696	Ecological Informatics	Mohammad Saood Manzar, Mohammed Benaafi, Romulus Costache, Omar Alagha, Nuhu Dalhat Mu'azu , Mukarram Zubair, Jazuli Abdullahi, SI Abba	June 2022	70, 101696
31	Bentonite-layered double hydroxide composite for enhanced aqueous adsorption of Eriochrome Black T; https://doi.org/10.1016/j.clay.2018.04.009	Applied Clay Science	Nuhu Dalhat Mu'azu , Nabeel Jarrah, Taye Saheed Kazeem, Mukarram Zubair, Mamdouh Al-Harhi	Apr 2018	161; 23-34
32	Cellulose Nanocrystals from Office Paper Waste for Green Mortar: Process Optimization Modeling, Characterization, and Mechanical Properties https://doi.org/10.1007/s13369-022-06609-8	Arabian Journal for Science and Engineering	Muhammad Nasir, Muhammad Arif Aziz, Mukarram Zubair, Mohammad Saood Manzar, Noman Ashraf, Nuhu Dalhat Mu'azu , Mamdouh A. Al-Harhi	Feb 2022	47 5377-5393
33	Adsorption Behavior and Mechanism of Methylene Blue, Crystal Violet, Eriochrome Black T, and Methyl Orange Dyes onto Biochar-Derived Date Palm Fronds Waste Produced at Different Pyrolysis Conditions https://doi.org/10.1007/s11270-020-04595-x	Water, Air & Soil Pollution	Mukarram Zubair, Nuhu Dalhat Mu'azu , Nabeel Jarrah, Hamidi Abdul Aziz, Mamdouh A. Al-Harhi	May 2020	231 (240)
34	Synthesis, Characterization and Dye Adsorption Performance of Strontium Ferrite decorated Bentonite-CoNiAl Magnetic Composite https://doi.org/10.1007/s13369-020-04544-0	Arabian Journal for Science and Engineering	Khalid Elkhider, Ihsanullah Ihsanullah, Mukarram Zubair, Mohammad Saood Manzar, Nuhu Dalhat Mu'azu , Mamdouh A. Al-Harhi	May 2020	45 7397-7408
35	Comparative performance study of ZnCl ₂ and NaOH sludge-based activated carbon for simultaneous aqueous uptake of phenolic compounds. https://doi.org/10.1080/03067319.2019.1704746	International Journal of Environmental Analytical Chemistry	Musiliu A. Liadi, Nuhu Dalhat Mu'azu , Nabeel Jarrah, Mukarram Zubair, Omar Alagha, Mamdouh A. Al-Harhi, and Mohammed H. Essa	Nov 2019	101(14) 2428-2452
36	Detection of micro-toxic heavy metals in commercial ink powder brands via short-long orthogonal dual pulse LIPs and ICP-OES spectroscopic techniques for environmental protection. https://doi.org/10.1080/03067319.2021.1983553	International journal of Environmental Analytical Chemistry	Ahmed A. I. Khalil, Osama A. Labib Nuhu Dalhat Mu'azu , and Muhammad Sajid and Ahsan Mushir Shemsi	Oct 2021	
37	Investigation of biodegradable polyaspartate as an effective chelant for washing of lead from soil: Response surface methodology approach https://doi.org/10.1080/03067319.2019.1708908	International Journal of Environmental Analytical Chemistry	Shamsuddeen A. Haladu, Nuhu Dalhat Mu'azu , Nabeel Jarrah, Mukarram Zubair, and Shaikh A. Ali	Dec 2019	101(15) 2679-2696
38	Enhanced Adsorptive Performance of Cr(VI) onto Layered Double Hydroxide-Bentonite Composite: Isotherm, kinetic and thermodynamic	Separation Science and Technology	Nabeel Jarrah, Nuhu Dalhat Mu'azu , Z Mukarram, AH Mamdouh	May 2019	55(11) - 1897-1909
39					



	studies https://doi.org/10.1080/01496395.2019.1614955				
40	Removal of Lead and Copper from Contaminated Mixed Clay Soils Using Pulsed Electrokinetics https://doi.org/10.1080/15320383.2020.1743969	Soil and Sediment Contamination: An International Journal	Abdullahi Kilaco Usman, Nuhu Dalhat Mu'azu Salihu Lukman, M.H. Essa, Aladeen Bukhari and Muhammad H. Al-Malack	Apr 2020	29(5) 465-480
41	Synthesis and adsorptive performance of a novel triazine-core containing resin for the ultrahigh removal of malachite green from water http://dx.doi.org/10.1007/s13369-022-07015-w	Arabian Journal for Science and Engineering	Tauqir Ahmad, Mohammad Saood Manzar, Saif Ullah Khan, Izzat Wajih Kazi, Nuhu Dalhat Mu'azu , and Nisar Ullah	Jun 2022	(Accepted 6th June 2022)
42	Comparative performance evaluation of anodic materials for electro-kinetic removal of Lead (II) from contaminated clay soil. https://doi.org/10.1080/15320383.2019.1673698	Soil and Sediment Contamination: An International Journal	Nuhu Dalhat Mu'azu and Mohammad Hussain Essa	Oct 2019	29 (1) 9-95
43	Sewage Sludge ZnCl ₂ activated carbon intercalated MgFe-LDH nanocomposites: insight of sorption mechanism of improved removal of phenol from water https://doi.org/10.3390/ijms21051563	International Journal of Molecular Sciences	Nuhu Dalhat Mu'azu , Mukarram Zubair, Nabeel Jarrah; Omar Alagha, Mamdouh A. Al-Harhi and Mohammed H. Essa	Feb 2020	21: 1563.
44	Effect of montmorillonite content in natural Saudi Arabian clay on its adsorptive performance for single aqueous uptake of Cu (II) and Ni (II) https://doi.org/10.1016/j.jksus.2018.06.003	Journal of King Saud University- Science	Nuhu Dalhat Mu'azu , A Bukhari and K Munef	Jan 2020	32(1), 412-422
45	Public acceptability of treated wastewater reuse in Saudi Arabia: Implications for water management policy https://doi.org/10.1016/j.scitotenv.2020.137659	Science of the Total Environment	Nuhu Dalhat Mu'azu , Ismaila Rimi Abubakar, and Nawaf I. Blaisi	June 2020	721; 137659
46	Mechanistic aspects of magnetic MgAlNi barium-ferrite nanocomposites enhanced adsorptive removal of an anionic dye from aqueous phase. https://doi.org/10.1016/j.jscs.2020.08.001	Journal of Saudi Chemical Society	Nuhu Dalhat Mu'azu , Nabeel Jarrah, Mukarram Zubair, Mohammad Saood Manzar, Taye Saheed Kazeem, Aleem Qureshi, Shamsuddeen A Haladu, Nawaf Blaisi, Mohammad H Essa, Mamdouh Al-Harhi	Sept 2020	24(10) 715-732
47	Systematic Modeling of Municipal Wastewater Activated Sludge Process and Treatment Plant Capacity Analysis Using GPS-X https://doi.org/10.3390/su12198182	Sustainability	Nuhu Dalhat Mu'azu , Omar Alagha, Ismail Anil	Sept 2020	12; 8182 1-26
48	Process Optimization and Modeling of Phenol Adsorption onto Sludge-Based Activated Carbon Intercalated MgAlFe	Molecules	Nuhu Dalhat Mu'azu , M Zubair, I Ihasanullah	May 2021	26 ; 4266 1-19



	Ternary Layered Double Hydroxide Composite https://doi.org/10.3390/molecules26144266				
49	Volcanic ashes and its NaOH modified adsorbent for superb cationic dye uptake from water: statistical evaluation, optimization, and mechanistic studies Aspects https://doi.org/10.1016/j.colsurfa.2021.127879	Colloids and Surfaces A: Physicochemical and Engineering	Nuhu Dalhat Mu'azu Mohammad Saood Manzar, Mukarram Zubair, Eman Ghari, Alhajri, Mohammed H.Essa, Lucas Meili	Nov 2021	
50	Food waste management current practices and sustainable future approaches: a Saudi Arabian perspective https://doi.org/10.1007/s10163-018-0808-4	. Journal of Material Cycles and Waste Management	Nuhu Dalhat Mu'azu , Nawaf I. Blaisi, Ammar A. Naji, Isam Mohammed AbdelMagid, Ali AlQahtany	Nov 2018	21 (3), 678–690
51	Evaluation of novel MgAlNi-BaFe ternary layered hydroxide uptake of methyl orange dye from water http://dx.doi.org/10.1007/s11814-019-0384-x	Korean Journal of Chemical Engineering	Nuhu Dalhat Mu'azu , Nabeel Jarrah, Mukarram Zubair and Saud Manzar , Taye Saheed Kazeem and Mamdouh Al-Harhi	Dec 2019	36, pages 2008–2022
52	Life cycle assessment approach to sustainable sewage sludge management for water pollution control https://doi.org/10.1088/1742-6596/1349/1/012145	Journal of Physics: Conference Series,	Nuhu Dalhat Mu'azu , Mohammed H Essa, Omer Aga and Nabeel Jarrah(2019	1349 (1), 01214
53	Scale-up of Hybrid Electrokinetic-Adsorption Technique for Removal of Heavy Metals from Contaminated Saline-Sodic Clay Soil https://doi.org/10.1016/j.jksues.2016.12.002	Journal of King Saud University - Engineering Sciences	Nuhu Dalhat Mu'azu , M.H. Essa and Salihu Lukman	2019	Volume 31, Issue 2, , Pages 122-130
54	Removal zinc ions from contaminated soil using biodegradable polyaspartate via soil washing process. https://doi.org/10.1088/1742-6596/1349/1/012146	Journal of Physics: Conference Series	Nuhu Dalhat Mu'azu , M H Essa, S A Haladu, S A Ali, N Jarrah, M Zubair and I. A. Mohamed	2019	1349 (1), 012146
55	Evaluation of influence of montmorillonite content of natural clay mineral on aqueous uptake of Lead and Zinc. https://doi.org/10.2175/106143017X15131012153202	Water Environment Research	Nuhu Dalhat Mu'azu	2018.	90 (9), 771-782
56	Response surface modeling and optimization of sludge activated carbon production conditions for phenolic compounds removal from water.	Desalination and Water Treatment	Nabeel Jarrah, Nuhu Dalhat Mu'azu , Mohammed H. Essa and Mukarram Zubair	2018	100, 320–332



	https://doi.org/10.5004/dwt.2017.21777				
57	Influence of Bentonite Proportion in Natural Clay on Pb ²⁺ ions Sorption: Response Surface Methodology, Kinetics and Equilibrium Studies https://doi.org/10.1080/15320383.2017.1405909	Soil and Sediment Contamination: An International Journal	Nuhu Dalhat Mu'azu and Nabeel Jarrah	2017	.26 (7) 1–18.
58	Removal of phenolic compounds from Water Using Sewage Sludge Based Activated Carbon Adsorption: A Review.,; https://doi.org/10.3390/ijerph14101094	International Journal of Environmental Research and Public Health	Nuhu Dalhat Mu'azu , Nabeel Jarrah, Mukarram Zubair and Omer Aga	2017	14(10), 1094
59	Polyaspartate extraction of cadmium ions from contaminated soil: evaluation and optimization using central composite design, https://doi.org/10.1016/j.jhazmat.2017.08.013	Journal of hazardous materials	Nuhu Dalhat Mu'azu , Shamsudeen A. Haladu, Nabeel Jarrah, Mukarram Zubair, M.H Essa and Shaikh A. Ali	2018	342) Pages 58-68
60	Augmenting granular activated carbon with natural clay for multicomponent sorption of heavy metals from aqueous solution. https://doi.org/10.2166/wst.2017.395	Water Science and Technology,	Nuhu Dalhat Mu'azu , Mohammed Hussain Essa and Salihu Lukman	2017	76(8);
61	Highly efficient removal of Pb (II) ion from aqueous phase using surface modified graphene. Equilibrium and kinetic study https://doi.org/10.5004/dwt.2017.20842	Desalination and Water Treatment	Mukarram Zubair, Nabeel Jarrah, Mamdouh A Al-Harhi, Mohammad Saood Manzar and Nuhu Dalhat Mu'azu	2017	80 (2017) 174-183
62	Adsorption of Eriochrome Black T from Aqueous Phase on MgAl-, CoAl- and NiFe- Calcined Layered Double Hydroxides: Kinetic, Equilibrium and Thermodynamic Studies. https://doi.org/10.1016/j.molliq.2017.01.031	Journal of Molecular Liquids.	Mukarram Zubair, Nabeel Jarrah, Saood A Manzar, Mamdouh Al-Harhi, Muhammad Daud, Nuhu Dalhat Mu'azu , Shamsudeen A. Haladu	2017	Volume 230, Pages 344–352;
63	Binary Adsorption of Phenol and O-cresol from Aqueous Solution on Date Palm pits Based Activated Carbon: A Fixed-Bed Column Study; https://doi.org/10.5004/dwt.2017.0191	Desalination and Water Treatment	Nuhu Dalhat Mu'azu , Nabeel Jarrah and Mohammad H. Essa	2017	58) 192-201;
64	Response Surface Modeling of Rate of Replenishing Processing Fluids During Hybrid Electrokinetics-Adsorption Treatment of Saline-Sodic Soil. https://doi.org/10.1007/s13369-016-	Arabian Journal of Science and Engineering	Nuhu Dalhat Mu'azu , Mohammed H. Essa and Salihu Lukman	2016) 42: 1117 - 1127



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65	Pulsed Electrokinetic Removal of Chromium, Mercury and Cadmium from Contaminated Mixed Clay Soils. https://doi.org/10.1080/15320383.2016.1213700	Soil and Sediment Contamination: An International Journal	Nuhu Dalhat Mu'azu , Abdullahi Usman, Nabeel Jarrah and Omer Aga	2016	Vol 25 (7) 757-775;
66	Specific Energy Consumption Reduction During Pulsed Electrochemical Oxidation of Phenol using Graphite Electrode. https://doi.org/10.1016/j.jece.2016.04.026	Journal of Environmental Chemical Engineering	Nuhu Dalhat Mu'azu , Muhammad Al-Yahya, Ahmad M. Al-Haj-Ali and Isam Mohammed Abdel-Magid	2016	Volume 4 (2)2477–2486;
67	Simultaneous Removal of Phenol, CN-, S2- and NH4+ Species Using Electrochemical Oxidation on Boron-Doped Diamond Electrode. https://doi.org/10.1016/j.jece.2016.04.011	Journal of Environmental Chemical Engineering	Nabil Jarrah and Nuhu Dalhat Mu'azu	2016.	Volume 4 (3) 2656–2664;
68	Determination of N-Nitrosamines by Automated Dispersive Liquid-Liquid Microextraction Integrated with Gas Chromatography and Mass Spectrometry https://doi.org/10.1002/jssc.201401043	Journal of Separation Science	Mousa Amayreh, Basheer Chabasha, Khalid Alhooshani, Nuhu Dalhat Mu'azu and Hian Kee Lee	2015	Volume 38, Issue 10, pages 1741-1748;
69	Optimal Removal of Cadmium from Heavily Contaminated Saline–Sodic Soil Using Integrated Electrokinetic-Adsorption Technique.; https://doi.org/10.1007/s13369-015-1605-1	Arabian Journal for Science and Engineering,	Lukman, S., Nuhu Dalhat Mu'azu Essa, M. and Usman, A	. 2015.	40 (5) pp 1289–1297
70	Application of Box-Behnken Design to Hybrid Electrokinetic-Adsorption Removal of Mercury from Contaminated Saline-sodic Clay Soil.; https://doi.org/10.1080/15320383.2014.911720	Soil and Sediment Contamination: An International Journal	M.H. Essa, Nuhu Dalhat Mu'azu , Salihu Lukman and Aladdin Bukhari	2015	24:1, 30-48
71	Kinetic Modeling of Electrochemical Oxidation of Phenol on Boron-Doped Diamond Anode in Presence of Inorganic Species., https://doi.org/10.1080/19443994.2014.964329	Desalination and Water Treatment	Nuhu Dalhat Mu'azu , Nabeel Jarrah and Aladdin Bukhari	2015	56 3005–3012;
72	Geochemical modeling of trivalent chromium migration in saline-sodic soil during integrated electrokinetic-adsorption remediation: Impact on soil physico-chemical properties, http://dx.doi.org/10.1155/2014/272794	Scientific World Journal	Salihu Lukman, A. Bukhari, M.H. Al-Malack, Nuhu Dalhat Mu'azu and M.H. Essa	2014	Research Article 272794
73	Corrosion inhibition of commercial aluminum in hydrochloric acid solution by date palm leaf extract;. https://www.bioline.org.br/pdf?ja14072	J. Appl. Sci. Environ. Manage	Ahmad Al-Haj-Ali, Nabeel A Jarrah, Nuhu Dalhat Mu'azu and O. Riham	2014.	Vol 3, 543-551
74	Application of Response Surface Methodology to Direct Electrochemical Oxidation of Low Phenol Concentration on Boron Doped Diamond Anodes., https://doi.org/10.1080/19443994.2013.831792	Desalination and Water Treatment	Nuhu Dalhat Mu'azu , Muhammad, Al-Malack Nabil Jarrah	2013.	52, (37) 7293-7305;



75	Adsorption and Desorption of Heavy Metals onto Natural Clay Material: Effect of pH. http://dx.doi.org/10.3923/jest.2013.1.15	Journal of Environmental Science and Technology	Salihu Lukman, M.H. Essa, Nuhu Dalhat Mu'azu , A. Bukhari, C. Basheer	2013.	6 (1): 1 – 15;
76	Integrated Electrokinetics-Adsorption Remediation of Saline-Sodic Soils: Effects of Voltage Gradient and Polarity Reversal on Soil Electrical Conductivity. 2013, 1- 6.) http://dx.doi.org/10.1155/2013/618495	Scientific World Journal	M.H. Essa, Nuhu Dalhat Mu'azu , S. Lukman and A. Bukhari	2013	
	Coupled electrokinetics-adsorption technique for simultaneous removal of heavy metals and organics from saline-sodic soil. Scientific World Journal,; http://dx.doi.org/10.1155/2013/346910	Scientific World Journal	S. Lukman, M.H. Essa, Nuhu Dalhat Mu'azu and A. Bukhari (2013).	2013	Article ID 346910
	Influence of Some Operating Parameters on Electrochemical Oxidation of Phenol Using Boron Doped Diamond Anode and Graphite Cathode; http://dx.doi.org/10.3923/jest.2012.460.474	Journal of Environmental Science and Technology	Nuhu Dalhat Muazu; MH Malck	2012	5: 460-474

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Yousef Salah Al-Hassan, Saeed Samir Bamousa and Nuhu Dalhat Mu'azu	Microbial Fuel Cell for Sustainable Wastewater Treatment with Generation of Electricity under KSA Local Settings. Poster Presentation	WATER ARABIA Symposium 11-13th February 2020 Le Méridien, Al-Khobar Saudi Arabia
2	F. Al-Huwail, S. Al-Mutlaq and Nuhu Dalhat Mu'azu	Changing Public Perception of Treated Sewage Effluent Reuse for Strategic Sustainable Water Management in KSA Poster Presentation	WATER ARABIA Symposium 11-13th February 2020 Le Méridien, Al-Khobar Saudi Arabia
3	Nuhu Dalhat Mu'azu and Mohammad Hussain Essa	“Advanced Solar Tertiary Sewage Effluent Treatment and Reuse for Sustainable Water Management in KSA”	7th International Conference On Energy Research and Development (ICERD) November 19-21, 2019 State of Kuwait
4	Nuhu Dalhat Mu'azu	“A Strategic Hierarchical Food Loss and Waste Management Approach for Transforming	SNR_SSWM2019 Conference to be held on 5-6 November 2019, Buraydah, Qassim, KSA



		KSA into Circular Economy”	
5	Nuhu Dalhat Mu’azu, Mohammad. H. Essa , Omer Aga and Nabeel Jarrah	“Life Cycle Assessment Approach to Sustainable Sewage Sludge Management for Water Pollution Control”	International Conference on Nanomaterials: Science, Engineering & Technology (IConSET 2019) 5-6 th August 2019 Penang Malaysia
6	Nuhu Dalhat Mu’azu and Mohammad Hussein Essa	“Advances in Diamond Electrochemistry and its Role in Decontamination of Industrial Wastewater effluents”	WEF-EESS Conference on Advancement in Water and Wastewater Treatment and Reuse, (AWWTR 2019) Singapore, 31st July – 1st August 2019
7	Nuhu Dalhat Mu’azu, Mohammad H Essa, Shamsudeen A Haladu, Shaikh A Ali, N Jarrah, M Zubair and Iehab A Mohamed	“Removal zinc ions from contaminated soil using biodegradable polyaspartate via soil washing process”	International Conference on Nanomaterials: Science, Engineering & Technology (IConSET 2019) 5-6 th August 2019 Penang Malaysia
8	Nuhu Dalhat Mu’azu, Nabeel Jarrah, Mukarram Zubair and Mohammed Hussein Essa	“Bentonite intercalated doubled layer hydroxides for superb simultaneous uptake of dyes and heavy metals from water	WEF-EESS Conference on Advancement in Water and Wastewater Treatment and Reuse, (AWWTR 2019) Singapore, 31st July – 1st August 2019
9	Nuhu Dalhat Mu’azu	A strategic sustainable water management approach in KSA and GCC countries	6th International Conference on Water, Energy and Environment (ICWEE2019), Sharjah UAE, March 26–28, 2019
10	Nuhu Dalhat Mu’azu , Nabeel Jarrah ² and Mukarram Zubair ³	Evaluation of anionic dye removal from water using bentonite-clay intercalated cobalt-aluminum LDH nanocomposites	6th International Conference on Water, Energy and Environment (ICWEE2019), Sharjah UAE, March 26–28, 2019
11	Nuhu Dalhat Mu’azu and Mohammed H.Essa	Oxidation Pathways during Electrochemical Treatment of Phenolic Wastewater using Boron-Doped Diamond Electrodes	International Conference on Water, Energy and Environment (ICWEE 2017) February 28-March 2, 2017, at the American University of Sharjah, Sharjah, UAE
12	Nuhu Dalhat Mu’azu, Nabeel Jarrah, Mohammed H.Essa and Mukarram Zubair	Treatment of Wastewater using Sludge Based Activated Carbon: A Sustainable Sludge Management Strategy in KSA	International Conference on Water, Energy and Environment (ICWEE 2017) February 28 – March 2, 2017, at the American University of Sharjah, Sharjah, UAE
13	Nuhu Dalhat Mu’azu Isam Mohammed Abdel- Magid, Nabeel Al-Jarrah and Nawaf Blaise	Reusing of Treated Mosque Ablution Grey Water: A Sustainable Water Management Strategy Integrated into Mosques Design	1st Saudi The First International Conference on Mosques Architecture, the University of Dammam (UoD) Dammam, 6- 8 December 2016.
14	Nuhu Dalhat Mu’azu, Nabeel Jarrah and Omer Aga, Mohammed	Optimization of Production of Sludge Based Activated Carbon for Sustainable Water Pollution Control	3rd Zaytoonah Engineering Conference, Amman Jordan (ZEC2016), 16-18 May 2016



	Hussain Essa		
15	Nuhu Dalhat Mu'azu and M.H. Essa	Solar Based Technologies for Sustainable Tertiary Effluent Treatment and Reuse	First German-UAE Workshop on Energy and Water in the Gulf Cooperation Council Countries (EWGCC) held in American University of Ras Al Khaimah UAE, on April 12-14, 2016. UAE
16	Nuhu Dalhat Mu'azu M.H. Essa Salihu Lukman	Pilot Scale Removal of Heavy Metals from Sodic-Saline Clay Soil Using Hybrid Electrokinetic-Adsorption Technique	14th International Conference on Environmental Science and Technology (CEST2015) 3-5 September 2015, Rhodes, Greece
17	Nuhu Dalhat Mu'azu, Abdullahi Usman, A. Bukhari and Muhammad Hussain Essa and Salihu Lukman	Electrokinetic Removal of Mixed Heavy Metals from Contaminated Clay Soils Using pulsed electrokinetic process.	14th International Conference on Environmental Science and Technology (CEST2015) 3-5 September 2015, Rhodes, Greece
18	Nuhu Dalhat Mu'azu and Nabil Jarrah	Advances in Diamond Electrochemistry: Applications in Industrial Wastewater Treatment"	Water Arabia, Le Meridian Khobar Saudi Arabia. 17-19 February 2015
19	S. Lukman, M.H. Essa, Nuhu Dalhat Mu'azu, A. Bukhari	Integrated Electrokinetics-Adsorption Remediation for Simultaneous Removal of Heavy Metals and Organics from Saline-Sodic Soil: Effects of Voltage Gradient on the Processing Fluids,"	Proceedings of the 2nd International Conference on Environment, Chemistry and Biology (ICECB 2013), December 13-14, 2013 Stockholm, Sweden
20	Nuhu Dalhat Mu'azu, Muhammad H. Al- Malack and Omer Aga	Electrochemical Oxidation of Phenol on Boron-Doped Diamond Anodes in Wastewaters Containing Toxic Inorganic Species"	Proceedings of the 16th International Water Technology Conference (IWTC-2012), Istanbul-Turkey 7-10 May 2012
21	Nabil Jarrah, Omer Aga and Nuhu Dalhat Mu'azu	Production of activated carbon using tire waste: Optimization using Response Surface methodology Jubail	Jubail International Environmental Conference 6th June 2012. Jubail Industrial city, Jubail, Saudi Arabia
22	Nuhu Dalhat Mu'azu, S. Lukman, M.H. Essa and M.S. Al-Suwaiyan	Challenges in the Electrokinetic Remediation of Natural Saudi Arabian Soil for Agriculture: Effect of Salinity and Sodicity	World Environment Day (WED13) Symposium hosted by the Royal Commission for Jubail, Jubail, Saudi Arabia, 5th June.
23	M.H. Essa, Nuhu Dalhat Mu'azu, S. Lukman and A. Bukhari	Integrated Electrokinetics-Adsorption Remediation of Saline-Sodic Soils and Groundwater: Effects of Voltage Gradient and Initial Concentration on Electrical Conductivity	17th International Water Technology Conference (IWTC-2013), Fatih University Istanbul-Turkey 5 - 7 Nov 2013.
24	S. Lukman, M.H. Essa, Nuhu Dalhat Mu'azu, A. Bukhari	Coupled electrokinetics-adsorption technique for simultaneous removal of heavy metals and organics from saline-sodic soil	International Conference on Environmental Science and Technology (ICEST2013), September 5 - 7, 2013, Athens, Greece
25	Nuhu Dalhat Mu'azu,	Electrochemical Decontamination of	Jubail International Environmental



M. H. Al-Malack;
Alaadin A. Bukhari

Wastewaters Containing Toxic
Substances Using Boron-Doped
Diamond Electrode

Conference 6th June 2011, Jubail,
Jubail, Saudi Arabia, 5th June.

Research Projects

Project Status	Project Title	Funding organization	Role in the
Accepted	Sustainable Management of SWA Desalination Plants End-of-Life SWRO Membrane Modules for Achieving Circular Economy	Saudi Water Authority	PI
Accepted	Tertiary effluent solar disinfection for sustainable water management and agricultural reuse in KSA	DSR-IAU IF-2020-025	PI
Ongoing	Synthesis and Manufacturing of sustainable polymeric nanocomposite membranes for production of ultra-pure water for haemodialysis	DSR-IAU IF-2022-45	PI
Finished	Development and testing of scale and corrosion green inhibitors from natural extracts of sumac, pumpkin and clove oil for potential industrial applications	DSR-IAU 2020-112-ENG	PI
Finished	Process optimization of cellulose nanocrystals from office paper waste and its utilization as renewable additive for strong green concrete	2020-107-Eng	Co-I
Finished	Corrosion inhibition in oil and gas industries using new fine-tunable pH-responsive polymers	UoD	Co-I
Finished	Beach Well Filtration as Pre-Treatment for RO Desalination in Eastern province-Saudi Arabia	UoD project#2012190	Co-I
Finished	Electro-decontamination of Toxic Phenolic Wastewaters Under Different Direct Current Supply Modes”	UoD project#2012160	PI
Finished	Pulsed-Current Electrokinetic Remediation of Groundwater Contaminated with Heavy Metals”	UoD project #2012158	PI
Finished	Production and characterization of activated carbon from waste tires using factorial design of experiments.	UoD project #2012156	Co-I
Finished	Thermodynamics and kinetics of corrosion and corrosion inhibition for aluminum alloys exposed to acidic, chloride-containing environment using green chemical inhibitors	UoD research project# 2012162	Co-I
Finished	Effect of Electrode Materials on Electrokinetic Remediation (EKR) of Mixed-Heavy Metals Contaminated Soil”	KFUPM Project#SB12 1011	Co-I
Finished	Production of Activated Carbon from WWTP Sludge and its Utilization in Industrial Wastewater Treatment: a Life Cycle Assessment Approach	KACST-NSTIP	PI
Finished	Remediation of Oil-contaminated Soils Using Hybrid Electrokinetic- Adsorption technique with Locally- Produced Activated Carbon	KACST-NSTIP	Co-I



Finished	Electrochemical Destruction of Phenol in Multi-Pollutant Wastewaters Using Boron-Doped Diamond Electrode	KACST	PI
Finished	Remediation of MTBE Contaminated Wastewater Using UV Advanced Photochemical Oxidation Processes	KFUPM-SAUDI ARAMCO	Graduate Assistant
Finished	Treatment of Pretreated Petroleum Refinery Wastewater Using TiO ₂ Assisted Advanced REDOX Technology	SABIC	Graduate Assistant

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	In-depth utilization capabilities of various environmental modeling and statistical softwares such; GPS-X, SimaPro, Design Experts; Minitab; SPSS; Origin Lab; SigmaPlot etc
2	Statistical data analysis and interpretation, environmental modeling processes and optimization and applications of design of experiments
3	Research/projects planning, writing proposals for securing funds, execution, reporting as well as publications
4	Analytical capabilities for qualitative/quantitative measurements of organic and inorganic compounds measurements in water and soil

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	WEF-EESS Conference on Advancement in Water and Wastewater Treatment and Reuse, (AWWTR 2019)	Singapore, 31st July – 1st August 2019	Session Co-Chair for Soil. Advanced water and wastewater oral presentation
2	14th International Conference on Environmental Science and Technology (CEST2015)	3-5 September 2015, Rhodes Island, Greece	Session Co-Chair for Soil contamination and Remediation oral presentation

Membership of Scientific and Professional Societies and Organizations

- Registered Engineer, Council of Regulation of Engineering in Nigeria (COREN)
- Member Nigerian Council of Engineers (NSE)
- Member Saudi Council of Engineers, Saudi Arabia
- Saudi Arabian Water and Environmental Association (SAWEA)



- Water Environmental

Federation (WEF), USA

- Global Network on Environmental Science and Technology
- World Academy of Environmental Science and technology

Teaching Activities

Undergraduate/Post-graduate

#	Course/Rotation Title	No./Code	Course level	Contribution
1	Advanced Water Reuse Technologies	ENVEN 601	Graduate	Instructor/ Coordinator
2	Environmental Laws and Regulations	ENVEN 606		“
3	Water Resources Planning	ENVEN 605		“
4	Industrial Waste Engineering & Management	ENVEN 609		“
5	M. Eng Thesis	ENVEN 600		“
6	PhD Thesis	CHEM 699		“
7	Seminar	CHEM 697		“
8	Environmental Analysis	CHEM 660		“
9	Engineering Hydrology	ENVEN 431	Undergraduate	“
10	Desalination Technologies’	ENVEN 562		“
11	Industrial Waste Management	ENVEN 564		“
12	Unit operations and Processes I	ENVEN 411		“
13	Wastewater Engineering II	ENVEN 531		“
14	Environmental Laws & Regulations	HUMN 512		“
15	Water Supply Engineering	ENVEN 342		“
16	Water Quality	ENVEN 352		“
17	Design of Environmental Projects	ENVEN 501		“
18	Fluid Mechanics	ENG 312		“
19	Hazardous Waste Management Engineering	ENVEN 574		“
20	Waste Containment Structures	ENVEN 533		“
21	Senior Design Project I	ENVEN 521		“
22	Wastewater Engineering I	ENVEN 422		“
23	Intro to Geotech and Geoenvironmental Eng	ENVEN 452		“
24	Senior Design Project II	ENVEN 522		“
25	Groundwater Engineering and Contamination	ENVEN 573		“
26	Environmental Chemistry	CHEM 311		“
27	Library Skills	HUMN 201		“
29	Mechanics of materials	ENG 332		“
29	Industrial Wastes	MSSH 316	“	
	Statics	ENG 232	“	

Student Academic Supervision and Mentoring



#	Level	Number of Students	From	to
1	3-5	20	2011	2012
2	3-5	15	2012	2013
3	3-5	16	2013	2013
4	3-5	3-15	2014	2015
5	3-5	3-15	2015	2016
6	3-5	15	2016	2017
7	5	15	2017	2018
8	3-5	20	2018	2019
9	5	6	2019	2020
10	3 and 5	15	2020	2021

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	M. Eng Abdulaziz Jawhar Salmeen Aldosari	Techno-economic assessment of biogas anaerobic digester from sewage sludge: A comparative study with Landfill production	Environmental Engineering Department, Dammam, Imam Bin Abdulrahman Faisal University	Ongoing
2	PhD Dissertation Ishraq Husain Mohamed Alhamedd"	Synthesis and Application of Novel Nanocomposite Mixed Matrix Membranes for Removal of Organic Contaminants from Water.	Department of Chemistry, College of Science, Dammam, Imam Bin Abdulrahman Faisal University	Ongoing
3	PhD dissertation Mohammed Awwal Suleiman. title	Layered double hydroxide coated pomegranate peel biochar composites for removal of tetracycline from wastewater.	Universiti Teknologi Malaysia	Ongoing



4	M. Eng Project Ismaila Zahrani	Evaluation of the efficiency of home water treatment units	Environmental Engineering Department, Dammam, Imam Bin Abdulrahman Faisal University	IAU, 2023
5	MSc thesis Ghiada Wazan. t	Combined Photocatalytic Advanced electrochemical degradation of dyes from contaminated water	Department of Chemistry, College of Science, Dammam, Imam Bin Abdulrahman Faisal University	2024
6	MSc thesis Hessa Al-Ghatani	Synthesis of Polymeric Anticorrosion Coating and The Study of its Performance in 3.5% NaCl Solution.	Department of Chemistry, College of Science, Dammam, Imam Bin Abdulrahman Faisal University	IAU, 2023
7	MSc Khalied Munif	Adsorption of Copper and Nickel on Natural Saudi Arabia Bentonite and Clay	King Fahd University of Petroleum and Minerals, Dhahran Saudi Arabia	2015
	MSc Abdullahi Usman	Pulsed Electrokinetic Removal of Heavy Metals from Contaminated Clay Soil	King Fahd University of Petroleum and Minerals, Dhahran Saudi Arabia	2015

BSc Project Supervision

#	Title	Institution	Session
1	Design of Rehabilitation of Discarded Membrane Reuse System for Industrial Wastewater Remediation	Department of Environmental Engineering IAU	2024-2025
2	Design of a sustainable greywater recycling system	Department of Environmental Engineering IAU	2024-2025
3	Design a sustainable material to address the problem of sinkholes in railway infrastructure	Department of Environmental Engineering IAU	2024-2025
4	Design of Desalination System for Production of Ultrapure Water for Clinical Application	Department of Environmental Engineering IAU	2023-2024
5	Design of Adsorption Column for Regeneration of spent dialysate	Department of Environmental Engineering IAU	2023-2024
6	Design of Wastewater Treatment System using novel Nanocomposites embedded Membranes	Department of Environmental Engineering IAU	2023-2024
7	Design of smart constructed wetland (CW) for treatment of domestic wastewater	Department of Environmental Engineering IAU	2023-2024
8	Design of a Novel Solar Photocatalysis System Incorporated with a Photosensor for Degradation of Organic pollutants from Wastewater	Department of Environmental Engineering IAU	2023-2024
9	Design, Build and Test Membrane Photocatalytic System for Disinfection of Drinking Water	Department of Environmental Engineering IAU	2023-2024
10	Design of Photocatalytic Process for the Degradation of Methylene Blue Dye in Wate	Department of Environmental Engineering IAU	2022-2023
11	Design and model Biochar-Adsorber (Bio-sorb) for direct carbon capture (DCC	Department of Environmental Engineering IAU	2022-2023



12	Design and synthesis of novel membrane for wastewater decontamination	Department of Environmental Engineering IAU	2022-2023
13	Environmentally benign applications of petrochemical industry oily-sludge wastes	Department of Environmental Engineering IAU	2022-2023
14	Design and optimization of membrane system to purify seawater and testing of Nano based membranes for improved treatment performance under high salinity water	Department of Environmental Engineering IAU	2021-2022
15	Co-digestion of sewage sludge with organic materials for biogas production	Department of Environmental Engineering IAU	2021-2022
16	Designing of a bioremediation system for cleaning up petroleum contamination	Department of Environmental Engineering IAU	2021-2022
17	Design of brackish water distribution network and testing of synthetic corrosion inhibitors for the pipes' protection under aggressive KSA environments	Department of Environmental Engineering IAU	2020-2021
18	Design Mix and Environmental Analysis of Reclaimed Asphalt and Tank-Bottom Oil-Sludge Waste Hot Asphalt Concrete Composite	Department of Environmental Engineering IAU	2020-2021
19	Multi-criteria Design of Centralized Medical Waste Incinerator Facility for Dammam Metropolitan Hospitals	Department of Environmental Engineering IAU	2019-2020
20	Multi-criteria Design of Centralized Medical Waste Incinerator Facility for Dammam Metropolitan Hospitals	Department of Environmental Engineering IAU	2019-2020
21	Design of Biological Wastewater Treatment Plant for Population of 200,000 Persons	Department of Environmental Engineering IAU	2018-2019
22	Designing dry fermentation process to generate electricity by using organic waste	Department of Environmental Engineering IAU	2018-2019
23	Multi-criteria locating and designing of sanitary landfill in Dammam Metropolis	Department of Environmental Engineering IAU	2017-2018
24	Design of a waste composting system for sustainable management and Reuse of Food Waste in the Eastern Province of Saudi Arabia	Department of Environmental Engineering IAU	2016-2017
25	Application of Natural Clay Soil as an Adsorbent for Removal of Heavy metals from Contaminated Water	Department of Environmental Engineering UoD	2014/2015
26	Public acceptance of application of domestic wastewater for recycling and reuse in a Muslim society	Department of Environmental Engineering UoD	2014/2015
27	Municipal wastewater treatment plant design & evaluation	Department of Environmental Engineering UoD	2013/2014
28	Dissolved air flotation process for wastewater treatment	Department of Environmental Engineering UoD	2013/2014
29	Treatment of Industrial Wastewater contaminated with Organics Using Electrochemical Technique	Department of Environmental Engineering UoD	2012/2013



Administrative Responsibilities, Committee and Community Service

Administrative Responsibilities

Committee Membership

#	DATE	PARTICIPATION/ROLE
1	2020-till date	Member College of Engineering students' examination quality committee
2	(2012-2015) (2018- till date)	Coordinator of College of Engineering Summer training program committee
3	(2012-till date)	Coordinator of Department of Environmental Engineering Summer training program committee
4	(2012-2022)	Coordinator Senior design project committee, College of Engineering
5	(2013-2023)	Coordinator senior design project committee, Department of Environmental Engineering
6	(2017-2020)	Coordinator research committee, Department of Environmental Engineering
7	2018-2022	Coordinator of Department of Environmental Engineering student's advising committee
8	2015-till date	Member of Department of Environmental Engineering student's advising committee
9	2016-till date	Member Department of Environmental Engineering higher education committee
10	2013-2015	Served Department of Environmental Engineering Day at College of Engineering University of Dammam,
11	2017 – 2020	Community committee in College of Engineering sustainable community mosques project
14	2012-till date	Active contributor in achieving NCAAA report for the Department of Environmental Engineering.
15	2012-till date	Active contributor in achieving ABET report for the Department of Environmental Engineering.
16	2010-till date	Preparing Course Portfolios for all courses taught, evaluating them and updating them to latest NCAAA standard
17	2016-till date	Preparing Course Portfolios for all courses taught, evaluating them and updating them to latest ABET standard
18	2012-till date	Preparation NCAA Annual Report and Program File for the department of Environmental Engineering.

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1	Ongoing		Saudi Water Authority	Part-time
2	Ongoing		Dammam Treatment plant	Part-time
3	2014	2016	King Fahd University of Petroleum & minerals	Part-time
	October 2017	-	Dammam Municipality, Dammam	Part-time

Community Service Work



#	From	External/student Participant	Type of Volunteer	Organization
	30th June - 25th July 2024	Salem Bandar Salem Al-Shabani Al-Maliki	MAWBIHA	Province Eastern Province Education Department - Boys Al-Manarat National Secondary School in Khobar -
	30th June - 25th July 2024	Mohsen Barakat Mohsen Al-Ghofaili Al-Shammari	MAWHIBA	Eastern Province Royal Commission Education Department in Jubail - Boys AIUla High School - Jubail
	30th June - 25th July 2024	Ahmed Hani Bin Habib Al Hussein	MAWHIBA	Second grade of secondary school Sharqia Education Administration - Boys Majidiya High School - Masarat
1	October 2020- January 2021	Reem Al Zahrani	MAWHIBA/National Olympiad for Scientific Creativity (Ibdaa) project	Mawhiba High School, Dhahran, KSA
2	October 2017	Damma - Municipality staff	Professional consultation on solutions for urban development problems	Municipality of Dammam, Dammam
3	November 2016		Mosque ablution grey water treatment and reuse project	College of Engineering IAU

Research/Social Media links

1	LinkedIn,	https://sa.linkedin.com/in/dr-nuhu-muazu-dalhat-a273a45b
2	Scopus	Author ID: 55654869500; https://www.scopus.com/authid/detail.uri?authorId=55654869500
3	Publon:	ResearcherID: I-2800-2019
4	Publon:	https://publons.com/researcher/1280826/nuhu-dalhat-muazu/
5	Web of Science	https://app.webofknowledge.com/author/#/record/29955507?SID=C5fWCsZATPsakWH EryA
6	ORCID:	0000-0002-1402-544X
7	Research Gate	https://www.researchgate.net/profile/Nuhu_Muazu