




DR. IHSANULLAH OBAIDULLAH

(Top 2% of scientists in the world rankings of 2021 and 2022 (Chemical Engineering and Environmental Sciences), released by Stanford University researchers (both for the single year 2020 & 2021, and career))

-  Chemical and Water Desalination Engineering (CWDE) Program, College of Engineering, University of Sharjah, PO Box 27272, Sharjah, United Arab Emirates
https://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/mne/cwde/Pages/ppl_detail.aspx?mcid=8&clt=en
-  (+971) 567981866
-  ihsanullah@sharjah.ac.ae;
engr.ihsan.dir@gmail.com



FIELD OF SPECIALIZATION

Chemical Engineering, Desalination, Water Treatment, Membrane Science and Technology, Environmental Engineering, Fluid Mechanics, Mass, and Heat Transfer

RESEARCH INTERESTS

Desalination, Water treatment, Membrane Separation Processes, Adsorption, Environmental Impact Assessment

PROFESSIONAL EXPERIENCE

Total: >10 Years of Teaching and Research Experience

Post PhD: >04 Years of Teaching and Research Experience

ACADEMIC QUALIFICATIONS

PhD in Chemical Engineering

Sep 2012–Jan 2017

King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia

(QS World University Rankings =160)

(QS World University Rankings (Subject: Chemical Engineering =46)

Research Topic

Synthesis of novel carbon nanotube membranes for applications in water treatment

Core Subjects:

1. Transport Phenomena
2. Advanced Reaction Engineering
3. Advanced Reactor Analysis
4. Advanced Thermodynamics
5. Process Water Pollution Control
6. Numerical Methods in CHE
7. Special Topics in CHE
8. Materials Characterization
9. Mathematical Methods for Engineers

MSc in Chemical Engineering

Oct 2007–Apr 2011

University of Engineering & Technology, Peshawar, Pakistan

Research Topic

Optimization of saponification reaction in a continuous stirred tank reactor

Core Subjects:

1. Advanced CHE Thermodynamics
2. Advanced Chemical Reaction Engg.
3. Advanced Heat Transfer
4. Advanced Mass Transfer
5. Advanced Process Control
6. Membrane Separation Process
7. Corrosion Engineering
8. Technical Report Writing & Communication Skills

BSc in Chemical Engineering (Gold Medalist)

Dec 2002–May 2007

University of Engineering & Technology, Peshawar, Pakistan

Core Subjects:

1. Chemical Engg. Thermodynamics
2. Chemical Reactor Design
3. Process Heat Transfer
4. Industrial Management
5. Chemical Process Technology
6. Transport Phenomena
7. Engineering Mathematics
8. Mass Transfer
9. Fluid Flow
10. Industrial Stoichiometry
11. Process Engg. Economics
12. Engineering Mechanics
13. Maintenance Engineering

ACADEMIC HONORS AND AWARDS

Name of the award	Awarding Institution	Year
University Gold Medal	University of Engineering & Technology, Peshawar, Pakistan	2007
Nominated for the Presidential Award "Izaz-e-Fazilat"	Higher Education Commission (HEC) of Pakistan	2007

MEMBERSHIP OF PROFESSIONAL BODIES

- Member of the Pakistan Engineering Council (PEC) Pakistan since 2008 (REG. No: CHEM/6334).
- Member of the American Institute of Chemical Engineers, Saudi Arabian Section (SAS-AIChE) since 2012.
- Member of the Saudi Arabian International Chemical Sciences, Chapter of American Chemical Society (SAICSC-ACS) since 2012.
- Member of the International Desalination Association (IDA) since 2007 (Member Number: 164510).

LANGUAGE PROFICIENCY

Language	Speaking	Understanding	Writing	Reading
English	Excellent	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent	Excellent
Arabic	Basic	Intermediate	Excellent	Intermediate
Pashto	Excellent	Excellent	Excellent	Excellent

CAREER DETAILS

- **Assistant Professor**

Jan 2023–to date

Chemical and Water Desalination Engineering (CWDE) Program, College of Engineering, University of Sharjah, Sharjah, United Arab Emirates

- **Research Engineer-II/Associate Professor**
- **Research Engineer-III/Assistant Professor**

Dec 2021–to Dec 2022
Sep 2017–Dec 2021

Centre for Environment & Water, Research Institute, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia

Main Responsibilities:

I have conducted basic and applied research in the field of water treatment and environmental engineering. I coordinated various projects related to Environmental Impact Assessment. I have performed chemical analysis of different samples in the environmental chemistry labs of the center. I contributed to the proposals and reports writing for client-funded projects. I taught various graduate and undergraduate courses in the Chemical Engineering Department at KFUPM.

- **Lecturer**

Sep 2012–Mar 2016

Department of Chemical Engineering, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia

Main Responsibilities:

1. Lecturer
2. Research Associate/Teaching Assistant

- **Lecturer**

Jun 2007–May 2012

Department of Chemical Engineering, University of Engineering & Technology, Peshawar, Pakistan

Main Responsibilities:

1. Lecturer
2. Course Coordinator
3. Supervised more than 25 undergraduate students' projects
4. Administrative tasks

Responsibilities as a Course Coordinator:

1. Review of curriculum
2. Course assignment to faculty members in coordination with the department chairman
3. Student Counselling

TEACHING EXPERIENCE

I have taught the following courses at UOS (UAE), KFUPM (Saudi Arabia) and UET Peshawar (Pakistan).

No	Code	Title	University	Year/Semester
1.	0408277	Principles of Heat Transfer	University of Sharjah, UAE	Fall /2024-2025
2.	0408273	Membrane I	University of Sharjah, UAE	Fall /2024-2025
3.	0408273	Applied Fluid Mechanics	University of Sharjah, UAE	Fall & Spring/2023-2024
4.	0408275	Fund. Of Thermal Desalination Processes	University of Sharjah, UAE	Fall 2023-2024
5.	0408276	Material Processing Engineering	University of Sharjah, UAE	Summer/2022-2023 & Fall/2023-2024
6.	408170	Introduction to Chemical & Environmental Science & Engineering	University of Sharjah, UAE	Spring/2022-2023
7.	408271	Water Chemistry and Analysis	University of Sharjah, UAE	Spring/2022-2023, Fall 2023-2024, & Fall 2024-2025
8.	408279	Polymers Engineering	University of Sharjah, UAE	Spring/2022-2023 and 2023-2024
9.	CHE-525	Rate Controlled Separation Processes	KFUPM, Saudi Arabia	2022/Spring
10.	CHE-471	Process Water Pollution Control	KFUPM, Saudi Arabia	2018/Fall & 2020/Fall
11.	CHE-309	Chemical Engineering Laboratory (Fluid Mechanics, Process Heat Transfer, Process Mass Transfer)	KFUPM, Saudi Arabia	2013/Spring & 2013/Fall & 2014/Spring & 2014/Fall & 2015/Spring & 2015/Fall
12.	CHE-319	Chemical Reaction Engineering	UET Peshawar, Pakistan	2007/Fall & 2008/Fall & 2009/Fall & 2010/Fall & 2011/Fall
13.	CHE-311	Fluid Mechanics	UET Peshawar, Pakistan	2008/Fall & 2010/Fall & 2011/Fall
14.	CHE-143	Chemical Engineering Principles-I	UET Peshawar, Pakistan	2009/Spring & 2010/Spring & 2011/Spring
15.	CHE-244	Chemical Engineering Principles-II	UET Peshawar, Pakistan	2008/Spring & 2011/Spring & 2012/Spring
16.	CHE-351	Process Heat Transfer	UET Peshawar, Pakistan	2008/Summer
17.	CHE-205	Particle Technology	UET Peshawar, Pakistan	2009/Summer

RESEARCH STUDENTS SUPERVISED

University	Period	Student Name	Thesis Title	My Role
Universiti Sains Malaysia	2019-2022	Mukarram Zubair	Biochar/Layered double hydroxides nano-hybrids for water purification	Field supervisor
Universiti Sains Malaysia	2020-2024	MOHAMMAD SAOOD MANZAR	Treatment of tetracycline antibiotic from the water phase by Cellulose nanocrystal-layered double hydroxide nanocomposite	Field supervisor

DOCTORAL THESIS JURY MEMBER

University	Year	Student Name	Thesis Title
Université de Montpellier, France	2020	Qazi SOHAIB	Post-combustion Carbon Dioxide Capture By Coupling Ionic Liquids With Membrane Contactors: Experimental, Modeling And Simulation

TRAINING

Training activity	Title	Arranged by	Date/Year
Workshop	Teaching methodologies	Higher Education Commission (HEC), Pakistan	July 2007
Workshop	Communication Skills and Micro-teaching	Higher Education Commission (HEC), Pakistan	Oct 2011
Workshop	Effective Student Engagement	Teaching and Learning Center, Deanship of Academic Development, KFUPM	June 28, 2020
Workshop	Online Teaching and Assessment	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Sep 20 2020
Workshop	Delivering Effective Online Assessment	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Sep 30, 2020
Workshop	Creating Assessments/Tests in Blackboard LMS	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Oct 05, 2020
Workshop	Teaching Backwards: Using Inductive Teaching to Promote Conceptual Understanding	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Nov 17, 2020,
Workshop	Ways to Enhancing Textbook Reading	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Sep 29, 2021
Workshop	Active and Inquiry Based Teaching for Engineering: Theory and Practical Applications	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Oct 03 - Oct 05, 2021
Workshop	Exam Item Analysis	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Feb 02, 2022
Workshop	How to Prepare Course File	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Aug 22, 2022
Workshop	Undergraduate Research	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Aug 22, 2022
Workshop	Inquiry-based learning (IBL)	Teaching and Learning Center, Deanship of Academic Development, KFUPM	Aug 23, 2022



RESEARCH INTERESTS

1. Desalination
2. Water Treatment
3. Membrane Separation Processes
4. Synthesis, and applications of novel nanomaterials in desalination and water treatment
5. Resource recovery from desalination brine
6. Environmental Impact Assessment

RESEARCH STATISTICS (As of August 29, 2024)

Publications	
Type of Publication	Number of Publications
Articles in Journals International Refereed	Published: 89 Submitted: 5
Conference Papers	15
Books/Book Chapters	01
US Patents	04

Citations		
Source	Number of Citations	h-index
Google Scholar	>7500	41
Scopus	>6500	38
Web of Science	>5500	35

Reviewer and Editorial Experience	
Source	Number
Number of publications reviewed (Verified reviews on Web of Science)	517
Manuscript handled as an editor	>30
Special issues edited	02
Project proposals reviewed	>20
Number of highly cited papers in Web of Science 	11
Number of hot papers in Web of Science 	01

PUBLICATIONS

Patents

1. Muataz Ali Atieh, **Ihsanullah**, Tahar Laoui, "Fabrication of carbon nanotube membranes", *Patent No: US9776140B2*, Filed: October 21 2015, Granted: October 03, 2017.
<https://patents.google.com/patent/US10369526B2/en>
2. Muataz Ali Atieh, **Ihsanullah**, Tahar Laoui, "Process for forming a sintered iron oxide impregnated carbon nanotube membrane", *Patent No: US10272391B2*, Filed: July 17, 2017, Granted: April 30, 2019
<https://patents.google.com/patent/US10272391B2/en>
3. Muataz Ali Atieh, **Ihsanullah**, Tahar Laoui, "Carbon nanotube membranes", *Patent No: US10, 369,526 B2*, Filed: July 17, 2017, Granted: August 06, 2019. <https://patents.google.com/patent/US10369526B2/en>
4. Muhammad Sajid, **Ihsanullah**, "Fiber-Knotted porous membrane bag for the removal of environmental pollutants from water", US 2020-0156010 A1, Filed: November 20, 2018, Granted: June 07, 2022.
<https://patents.google.com/patent/US20200156010A1/en>

Journal Papers

*Corresponding author

2024

1. I. Ihsanullah*, M. T. Khan, M.F. Hossain, M. Bilal, I.A. Shah, "Eco-Friendly Solutions to Emerging Contaminants: Unveiling the Potential of Bioremediation in Tackling Microplastic Pollution in Water". *Advanced Sustainable Systems*, 2024, 2400172.
<https://doi.org/10.1002/adsu.202400172>
Impact Factor (2023) = 6.5, JIF Quartile (Q1).
2. L. Jaber, I.W. Almanassra, A. AbuShawish, A. Chatla, I. Ihsanullah, M. Ali, Y. Manawi, A. Shanableh, M. A. Atieh, "Pioneering Biofouling Resistant PES UF Membrane with MnFe₂O₄/g-C₃N₄ Nanocomposite: Insight into Mechanisms and Fouling Dynamics". *Journal of Membrane Science*, 691 (2024)122259.
<https://doi.org/10.1016/j.memsci.2023.122259>
Impact Factor (2023) = 8.4, JIF Quartile (Q1).
3. I. Ihsanullah*, M. Bilal, M. Sajid, A. W. Mohammad, M. A. Atieh, N. Ghaffour, "Emerging MXenes: Revolutionizing Oily Wastewater Treatment - A Comprehensive and Critical Review". *Separation and Purification Technology*, 329 (2024) 125181.
<https://doi.org/10.1016/j.seppur.2023.125181>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
4. I.A. Shah, M. Bilal, I W. Almanassra, I. Ihsanullah*, "A Comprehensive Review of Graphene Oxide-Based Membranes for Efficient Dye Removal from Water Sources". *Separation and Purification Technology*, 330 (2024) 125277.
<https://doi.org/10.1016/j.seppur.2023.125277>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
5. U. Khan, M. Bilal, H. M. Adil, N. Darlington, A. Khan, N. Khan, I. Ihsanullah*, "Hydrogen from sewage sludge: Production methods, influencing factors, challenges, and prospects". *Science of the Total Environment*, 919 (2024) 170696.
<https://doi.org/10.1016/j.scitotenv.2024.170696>
Impact Factor (2023) = 8.2, JIF Quartile (Q1).
6. M. Zubair, R. S. Radkiany, M. Bilal, I. Ihsanullah*, "MXenes: Innovative solutions for the removal of radionuclides from water - A review". *Materials Science in Semiconductor Processing*, 178 (2024) 108450.
<https://doi.org/10.1016/j.mssp.2024.108450>
Impact Factor (2023) = 4.2, JIF Quartile (Q1).
7. N. U. Rehman, K. S. Ullah, M. Sajid, I. Ihsanullah, A. Waheed, "Preparation of Sustainable Composite Materials from Bio-Based Domestic and Industrial Waste: Progress, Problems, and Prospects- A Review". *Advanced Sustainable Systems*, 2024, 2300587.
<https://doi.org/10.1002/adsu.202300587>
Impact Factor (2023) = 6.5, JIF Quartile (Q1).

2023

8. A. K. A. Khalil, I. W. Almanassra, A. Chatla, I. Ihsanullah, T. Laoui, M. A. Atieh, "Insights into the Adsorption of Lead Ions by Mg-Al LDH Doped Activated Carbon Composites: Implications for Fixed Bed Column and Batch Applications". *Chemical Engineering Science*, 281 (2023) 119192
<https://doi.org/10.1016/j.ces.2023.119192>
Impact Factor (2023) = 4.1, JIF Quartile (Q1).

9. I. Ihsanullah*, M. Bilal, M. T. Khan, "Harnessing Nanomaterials for Enhanced Biohydrogen Generation from Wastewater." *Chem. Asian J.* (2023) e202300618.
<https://doi.org/10.1002/asia.202300618>
Impact Factor (2023) = 3.5, JIF Quartile (Q2).
10. M. Sajid, M. Kabeer, M. Younas, I. Ihsanullah, N. Baig, "Conocarpus lancifolius Leaves as Low-Cost, Green and Sustainable Sorbent Material for Simultaneous Removal of Cadmium, Chromium, and Lead Ions from Aqueous Samples". *Arabian Journal for Science and Engineering*, 49 (2023), 613–621.
<https://doi.org/10.1007/s13369-023-08323-5>
Impact Factor (2023) = 2.6, JIF Quartile (Q2).
11. A. Shah, M. Bilal, I. Ihsanullah*, S. Ali, M. Yaqub, "Revolutionizing Water Purification: Unleashing Graphene Oxide (GO) Membranes". *Journal of Environmental Chemical Engineering*, 11(6) (2023) 111450
<https://doi.org/10.1016/j.jece.2023.111450>
Impact Factor (2023) = 7.4, JIF Quartile (Q1).
12. A. Abushawish, A. Chatla, I. W. Almanassra, I. Ihsanullah, A. Shanableh, T. Laoui, M. A. Atieh, "Novel composites of activated carbon and layered double oxide for the removal of sulfate from synthetic and brackish groundwater". *Chemosphere*, 339 (2023) 139740
<https://doi.org/10.1016/j.chemosphere.2023.139740>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
13. M. Sajid, I. Ihsanullah, "Magnetic layered double hydroxide-based composites as sustainable adsorbent materials for water treatment applications: Progress, challenges, and outlook". *Science of the Total Environment*, 880 (2023) 163299.
<https://doi.org/10.1016/j.scitotenv.2023.163299>
Impact Factor (2023) = 8.2, JIF Quartile (Q1).
14. A. Matin, S. Jillani, U. Baig, I. Ihsanullah, K. Alhooshani, "Removal of Pharmaceutically Active Compounds from Water Sources using Nanofiltration and Reverse Osmosis Membranes: Comparison of Removal Efficiencies and In-depth Analysis of Rejection Mechanisms". *Journal of Environmental Management*, 338 (2023) 117682
<https://doi.org/10.1016/j.jenvman.2023.117682>
Impact Factor (2023) = 8.0, JIF Quartile (Q1).
15. M. Awwad, M. Bilal, M. Sajid, M. S. Nawaz, I. Ihsanullah*, "MOF-based membranes for oil/water separation: Status, Challenges, and Prospects". *Journal of Environmental Chemical Engineering*, 11 (2023) 109073.
<https://doi.org/10.1016/j.jece.2022.109073>
Impact Factor (2023) = 7.4, JIF Quartile (Q1).
16. M. Bilal, U. Khan, I. Ihsanullah*, "MXenes: The Emerging Adsorbents for the Removal of Dyes from Water". *Journal of Molecular Liquids*, 385 (2023) 122377
<https://doi.org/10.1016/j.molliq.2023.122377>
Impact Factor (2023) = 5.3, JIF Quartile (Q1).
17. M. S. Manzar, H. A. Aziz, L. Meili, I. Ihsanullah, P. Palaniandy, M. A. Al-Harhi, "Insights into the adsorption of Tetracycline onto cellulose nanocrystal structured MgAl/LDH composite". *Materials Chemistry and Physics*, 299 (2022) 127247
<https://doi.org/10.1016/j.matchemphys.2022.127247>
Impact Factor (2023) = 4.3, JIF Quartile (Q2).
18. F. A. Janjhi, I. Ihsanullah*, M. Bilal, R. Castro-Muñoz, G. Boczka, F. Gallucci, "MXene-based materials for removal of antibiotics and heavy metals from wastewater– a review". *Water Resources and*

Industry, 29 (2023) 100202
<https://doi.org/10.1016/j.wri.2023.100202>
Impact Factor (2023) = 4.5, JIF Quartile (Q1).

19. N. Akhtar, Z. Aslam, R. A. Shawabkeh, N. Baig, U. Aslam, I. Ihsanullah, S. Khan, "Decolorization of multicomponent dye-laden wastewater by modified waste fly ash: a parametric analysis for an anionic and cationic combination of dyes". *Environmental Science and Pollution Research*, 30 (2023) 77165–77180.
<https://doi.org/10.1007/s11356-023-27671-1>
Impact Factor (2022) = 5.8, JIF Quartile (Q1).

2022

20. I. Ihsanullah*, J. Mustafa, A. M. Zafar, M. Obaid, M. A. Atieh, N. Ghaffour, "Waste to Wealth: A Critical Analysis of Resource Recovery from Desalination Brine". *Desalination*, 543 (2022) 116093.
<https://doi.org/10.1016/j.desal.2022.116093>
Impact Factor (2023) = 8.3, JIF Quartile (Q1).
21. I. Ihsanullah*, "MXenes as next-generation materials for the photocatalytic degradation of pharmaceuticals in water". *Journal of Environmental Chemical Engineering*, 10 (2022) 107381.
<https://doi.org/10.1016/j.jece.2022.107381>
Impact Factor (2023) = 7.4, JIF Quartile (Q1).
22. I. Ihsanullah*, M. Sajid, S. Khan, M. Bilal, "Aerogel-based adsorbents as emerging materials for the removal of heavy metals from water: Progress, challenges, and prospects". *Separation and Purification Technology*, 291 (2022) 120923.
<https://doi.org/10.1016/j.seppur.2022.120923>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
23. I. Ihsanullah*, M. Bilal, A. Jamal, "Recent Developments in the Removal of Dyes from Water by Starch-Based Adsorbents". *The Chemical Record*, 22 (2022) e202100312.
<https://doi.org/10.1002/tcr.202100312>
Impact Factor (2023) = 7.0, JIF Quartile (Q1).
24. I. Ihsanullah*, M. Bilal, "Recent advances in the development of MXene-based membranes for oil/water separation: A critical review". *Applied Materials Today*, 29 (2022) 101674.
<https://doi.org/10.1016/j.apmt.2022.101674>
Impact Factor (2023) = 7.2, JIF Quartile (Q1).
25. I. Ihsanullah*, M. Bilal, "Potential of MXene-based membranes in water treatment and desalination: A critical review". *Chemosphere*, 303 (2022) 135234.
<https://doi.org/10.1016/j.chemosphere.2022.135234>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
26. I. Ihsanullah*, "Applications of MOFs as adsorbents in water purification: Progress, challenges and outlook". *Current Opinion in Environmental Science & Health*, 26 (2022) 100335.
<https://doi.org/10.1016/j.coesh.2022.100335>
Impact Factor (2023) = 6.7, JIF Quartile (Q1).
27. M. Bilal, I. Ihsanullah*, "What makes MXenes emergent materials for the adsorption of heavy metals from water? A critical review". *Journal of Water Process Engineering*, 49 (2022) 103010.
<https://doi.org/10.1016/j.jwpe.2022.103010>
Impact Factor (2023) = 6.3, JIF Quartile (Q1).

28. M. Zubair, H. A. Aziz, **I. Ihsanullah***, M. A. Ahmad, M. A. Al-Harhi, "Enhanced removal of Eriochrome Black T from water using biochar/layered double hydroxide/chitosan hybrid composite: Performance evaluation and optimization using BBD-RSM approach". *Environmental Research*, 209C (2022) 112861.
<https://doi.org/10.1016/j.envres.2022.112861>
Impact Factor (2023) = 7.7, JIF Quartile (Q1).
29. I. W. Almanassra, T. Al-Ansari, **I. Ihsanullah**, V. Kochkodan, A. Chatlaa, M. A. Atieha, A. Shanableh, T. Laoui, "Carbide-derived carbon as an extraordinary material for the removal of chromium from an aqueous solution". *Chemosphere*, 307 (2022) 135953
<https://doi.org/10.1016/j.chemosphere.2022.135953>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
30. M. Bilal, **I. Ihsanullah***, M. U. H. Shah, A. V. B. Reddy, T. M. Aminabhavi, "Recent advances in the removal of dyes from wastewater using low-cost adsorbents". *Journal of Environmental Management*, 321 (2022) 115981
<https://doi.org/10.1016/j.jenvman.2022.115981>
Impact Factor (2023) = 8.0, JIF Quartile (Q1).
31. S. Ali, I. A. Shah **I. Ihsanullah**, X. Feng, "Nanocomposite membranes for organic solvent nanofiltration: Recent advances, challenges, and prospects". *Chemosphere*, 308 (2022) 136329
<https://doi.org/10.1016/j.chemosphere.2022.136329>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
32. L. Jaber, **I. Ihsanullah**, I. W. Almanassra, S. N. Backer, A. Abushawish, A. K. A. Khalil, H. Alawadhi, A. Shanableh, M. A. Atieh, "Adsorptive Removal of Lead and Chromate ions from water by using Iron-Doped Granular Activated Carbon Obtained from Coconut Shells". *Sustainability*, 14(17) (2022) 10877.
<https://doi.org/10.3390/su141710877>
Impact Factor (2023) = 3.3, JIF Quartile (Q2).
33. M. A. Qyyum, S. Ismail, S. Q. Ni, **I. Ihsanullah**, R. Ahmad, A. Khan, A. Tawfik, A. S. Nizami, M. Lee, "Harvesting biohydrogen from industrial wastewater: production potential, pilot-scale bioreactors, commercialization status, techno-economics, and policy analysis". *Journal of Cleaner Production*, 340C (2022) 130809.
<https://doi.org/10.1016/j.jclepro.2022.130809>
Impact Factor (2023) = 9.7, JIF Quartile (Q1).
34. M. Zubair, H. A. Aziz, **I. Ihsanullah**, M. A. Ahmad, M. A. Al-Harhi, "Engineered Biochar supported layered double hydroxide-cellulose nano crystals composites: Synthesis, characterization and azo dye removal performance". *Chemosphere*, 307 (2022)136054.
<https://doi.org/10.1016/j.chemosphere.2022.136054>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
35. M. A. Qyyum, **I. Ihsanullah***, R. Ahmad, S. Ismail, A. Khan, A. S. Nizami, A. Tawfik, "Biohydrogen Production from Real Industrial Wastewater: Potential bioreactors, Challenges in Commercialization and Future directions". *International Journal of Hydrogen Energy*, 47 (2022) 37154-37170.
<https://doi.org/10.1016/j.ijhydene.2022.01.195>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
36. M. Sajid, M. Asif, N. Baig, M. Kabeer, **I. Ihsanullah**, A. W. Mohammad, "Carbon nanotubes-based adsorbents: Properties, functionalization, interaction mechanisms, and applications in water purification". *Journal of Water Process Engineering*, 47 (2022) 102815.
<https://doi.org/10.1016/j.jwpe.2022.102815>
Impact Factor (2023) = 6.3, JIF Quartile (Q1).

37. I. A. Shah, S. Ali, Z. Yang, **I. Ihsanullah**, H. Huang, "Effects of water matrix on the rejection of neutral pharmaceutically active compound by thin-film composite nanofiltration and reverse osmosis membranes". *Chemosphere*, 303 (2022) 135211.
<https://doi.org/10.1016/j.chemosphere.2022.135211>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
38. Akhtar, K. Akram, Z. Aslam, **I. Ihsanullah**, N. Baig, M. M. Bello, "Photocatalytic degradation of p-nitrophenol in wastewater by heterogeneous cobalt supported ZnO nanoparticles: Modelling and optimization using Response Surface Methodology (RSM)". *Environmental Progress & Sustainable Energy*, 42 (2022) e13984
<https://doi.org/10.1002/ep.13984>
Impact Factor (2023) = 2.1, JIF Quartile (Q4).
39. M. Sajid, **I. Ihsanullah**, M. T. Khan, N. Baig, "Nanomaterials-based adsorbents for remediation of microplastics and nanoplastics in aqueous media: A review". *Separation and Purification Technology*, 305 (2022) 122453.
<https://doi.org/10.1016/j.seppur.2022.122453>
Impact Factor (2023) = 8.1, JIF Quartile (Q1).
40. **I. Ihsanullah***, G. Alam, A. Jamal, F. Shaik, "Applications of artificial intelligence in solid waste management: Recent advances, challenges, and prospects". *Chemosphere*, 309 (2022) 136631.
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Conference Presentations

1. **Ihsanullah**, Oral presentation (Invited Speaker). "Coronavirus 2 (SARS-CoV-2) in Water Environments: Challenges and Research Opportunities". *International Conference on Global Challenges in Energy & Environment Development, arranged by the Women University Multan, Pakistan, (May 24-26, 2021).*
2. **Ihsanullah**, Poster presentation. "Novel carbon nanotube membranes for the removal of hexavalent chromium from water". *The 50th General Assembly & 47th IUPAC World Chemistry Congress, Paris, France (5-12 July 2019).*
3. **Ihsanullah**, Oral presentation. "Carbon nanotube-based membranes: A potential breakthrough technology for water purification". *Ninth Symposium on Environmental Progress in Petroleum and Petrochemical*

Industry (Petro Environment), Saudi Arabia (Feb 2019).

4. **Ihsanullah**, A. Abbas, M.A. Atieh, Tahar Laoui, Poster presentation. "Carbon nanotubes membranes: A new frontier in water treatment Technology". *Third Middle East Process Engineering Conference & Exhibition (MEPEC 2015)*, Kingdom of Bahrain (Sep 2015).
5. **Ihsanullah**, A. Abbas, M.A. Atieh, T. Laoui, Poster presentation. "Synthesis and characterization of silver doped carbon nanotubes membrane using a novel technique". *Recent Development in Advanced Membranes and Porous Materials for Energy, Environment and Water Applications*, KAUST, Saudi Arabia (Feb 2015).
6. **Ihsanullah**, M.A. Atieh, Poster presentation. "Comparative study of the removal of cadmium (II) from water by using regular and modified carbon nanofibers". *NANO 2014 Conference, Lomonosov Moscow State University, Russia* (July 2014).
7. **Ihsanullah**, T. Laoui, A. Al-Amer, A. Al-Aqeeli, F. Patel, M. Atieh, "New generation of inorganic membrane: carbon nanotubes membrane", *Membranes Conf 2015, Aachen, Germany* (6-10 Sept. 2015)
8. T. Laoui, H. Shahzad, K. **Ihsanullah**, F. Patel, A. Al-Aqeeli, M. Atieh, "Processing and characterization of activated carbon/carbon nanotubes/alumina composite membranes for water filtration", *11th International Conf on Ceramic Materials and Components for Energy and Environmental Applications, Vancouver, Canada* (14-19 June 2015)
9. **Ihsanullah**, M.A. Atieh, Oral presentation. "Effect of MWCNTs on grafted polymer (HDPE-MA)/CNT composite properties". *The Second Middle East Process Engineering Conference & Exhibition (MEPEC 2013)*, Kingdom of Bahrain (Oct 2013).
10. **Ihsanullah**, Ahmad, M.I., "Optimization of saponification reaction in a continuous stirred tank reactor". *Proceeding of ICEAPE 2010, Faisalabad, Pakistan*, P.No. 10 (Dec 2010).
11. S. Shah, **Ihsanullah**, "Production of biodiesel from local algae species (*Spirogyra*)". *First International Conference on Energy and Environment, Allama Iqbal Open University, Islamabad, Pakistan* (Oct 2011).
12. **Ihsanullah**, Khan, A. A., Mustafa, J., Yasir, M., Mehmood. Z., "Optimizing operations of counterflow cooling tower using statistical experimental design". *International Conference on Engineering Sciences (ICES-2012)*, Lahore Pakistan (Feb 2012).
13. Younas, M., **Ihsanullah**, Raza, M., Sher, M., Elahi, H., "Improving the characteristics of biodiesel produced from mustard oil". *International Conference on Engineering Sciences (ICES-2012)*, Lahore Pakistan (Feb 2012).
14. **Ihsanullah**, Ullah, N., Khan, S., Rehman, I., Ullah. I., "Optimization of the process for slaughterhouse waste treatment by using design of experiments (DOE)". *International Conference on Engineering Sciences (ICES-2012)*, Lahore Pakistan (Feb 2012).
15. **Ihsanullah**, Rehman, I., Khan, S., Ullah, N., Ullah, I., Swati, I.K., Ijaz, U., "Production of biogas from algae". *International Multidisciplinary Conference (2012)*, Sarhad University of Science and Information Technology, Peshawar, Pakistan (2012).

Book Chapter

1. M.Sajid, **Ihsanullah**, Chapter 17: "Toxicity of nanoscale metal-organic frameworks in biological systems", **Book:** *Metal-Organic Frameworks for Biomedical Applications*, Pages 383-395 (2020), 1st Edition, Publisher: Elsevier, ISBN: 9780128169841.
<https://doi.org/10.1016/B978-0-12-816984-1.00019-6>

PROJECTS

Research Projects

1. Project No. 240204082313: “Evaluating the potential of novel 2D MXenes in the removal of heavy metals from water”, funded by the University of Sharjah ((Budget: AED 40,000), April 2024 to October 2025
2. **RISE-3070**: “Brine Recovery using MED Desalination driven by Solar Energy” funded by Al-Mardia Holding Group Qatar (Budget: USD 75,000), November 2023-to date
3. **DF191-COED-158**: “Wastewater Reclamation & Reuse by the cost-effective and highly efficient removal of emerging organic micropollutants using nanofiltration membranes”, funded by Deanship of Research Studies, KFUPM Saudi Arabia (Budget: Saudi Riyals: 276,106), April 2020-to Dec 2022.

Client-funded Projects

PC: Project Coordinator, **TL**: Task Leader, **M**: Member.

S.No	Project #	Funding Source	Project Title	Start Date	End Date	Total Value of Project (SR)	Role
1.	CEW2525	KBR	Environmental Impact Assessment for Vapor Handling Facilities at Ras Tanura Islands (BI-10-01051)	19/11/2018	31/12/2019	1189608.00	PC
2.	CEW2505	National Petr. Constr Company (NPCC)	Environmental Impact Assessment for the installation of four SSS slipover jackets, decks, associated pipelines and cables in the Safaniya Oil Field (BI-10-01263)	05-01-19	30/04/2021	2562328.00	TL
3.	CEW2508	KBR	Environmental Impact Assessment for the Zuluf Arab Heavy Crude Increment Program (BI-10-07868 & BI-10-12681)	23/04/2018	31/07/2020	3708075.00	TL
4.	CEW2524	Worley Parsons	EIA for the Replacement of Manifa Water Injection Onshore Flanks I & III	25/09/2018	31/12/2019	771750.00	TL
5.	CEW2526	McDermott Arabia Company Ltd	Environmental Impact Assessment for the Marjan TP-10 and Associated Facilities (BI-10-02016)	08-05-19	08-04-21	1084617.00	TL
6.	CEW2529	Saudi Arabian Oil Company (Saudi Aramco)	EIA for Maintenance Dr4dging of the Existing Ras Tanura Wests Pier Basin and Channel	10-10-18	12-09-19	982442.00	TL
7.	CEW2555	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Compliance Monitoring and Post-Construction Monitoring for the Safaniya Marine Channel Dredging Project (BI-10-01263)	18/04/2019	17/04/2021	3025156.00	TL
8.	CEW2556	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for the Replacement of Pipelines in BRRI Field (BI-10-02015 and BI-10-01263)	14/03/2019	31/12/2020	1590204.00	TL
9.	CEW2570	McDermott Arabia Company Ltd	Environmental Impact Assessment for the Marjan Platform Upgrade and Associated Facilities (BI-10-02016)	08-05-19	08-04-21	906840.00	TL
10.	CEW2578	Saudi Arabian Oil Company (Saudi Aramco)	National Greenhouse Gas Inventory	12-04-19	05-03-21	3009282.00	TL
11.	CEW2586	McDermott Arabia Company Ltd	Environmental Impact Assessment for the Installation of Platforms and Associated Facilities in Safaniya and Manifa Offshore Oil Fields (BI-12-18000)	25/03/2020	25/10/2020	1398281.00	TL
12.	CEW2498	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in The Shallow Waters of Red Sea (UMSJ-1)	01-01-18	31/12/2020	3800000.00	M
13.	CEW2499	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in The Shallow Waters of Red Sea (UMQS-1)	01-01-18	31/12/2020	3800000.00	M
14.	CEW2500	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in The Shallow Waters of Arabian Gulf (9 Locations)	01-11-18	31/12/2020	10500000.00	M
		Saudi Arabian	Environmental Impact Assessment for	01-11-18	31/12/2020	3800000.00	M

15.	CEW2501	Oil Company (Saudi Aramco)	Exploratory Drilling in The Shallow Waters of Red Sea (AYNN-1)				
16.	CEW2507	Saipem Saudi Arabia Ltd	Environmental Monitoring (Compliance and Post Construction) for the Manifa Water Injection System Upgrade (BI-10-02459)	08-01-18	31/01/2021	2107875.00	M
17.	CEW2509	Foster Wheeler Arabia Ltd.	Environmental services for Jazan city, primary and downstream industries: environment	29/10/2018	14/10/2020	2637499.00	M
18.	CEW2517	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea (UMUS-1)	27/05/2018	31/12/2020	3800000.00	M
19.	CEW2518	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea (TYIB-1)	27/05/2018	31/12/2020	3800000.00	M
20.	CEW2519	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea (SRSW-1)	27/05/2018	31/12/2020	3800000.00	M
21.	CEW2521	Rabigh Refining & Petrochemicals Co. L.L.C	Annual Marine Environmental Compliance Survey an Bio-Accumulation Study 2018	24/06/2018	31/12/2018	1690400.00	M
22.	CEW2531	Saudi Arabian Oil Company (Saudi Aramco)	EIA for the Construction of two Drilling Islands in the Berri Oil Field	11-11-18	30/04/2021	2185545.00	M
23.	CEW2536	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. ST-164	01-11-18	31/12/2021	3800000.00	M
24.	CEW2537	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. BRQN-7	01-11-18	31/12/2020	3800000.00	M
25.	CEW2538	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. SURW-1	10-11-18	31/12/2021	3,420,000.00	M
26.	CEW2539	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. MRYS-1	10-11-18	31/12/2021	3,700,000.00	M
27.	CEW2540	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Monitoring for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. BRQN-4	15/10/2018	15/05/2020	4500000.00	M
28.	CEW2541	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Monitoring for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. FRSH-1	15/10/2018	15/05/2020	4500000.00	M
29.	CEW2542	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Monitoring for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. UMSR-1	15/10/2018	15/05/2020	4500000.00	M
30.	CEW2543	Saudi Arabian Oil Company (Saudi Aramco)	Environmental monitoring for shallow water exploratory drilling in Red Sea, SYQH-1	15/10/2018	15/05/2020	4500000.00	M
31.	CEW2544	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Monitoring for Exploratory Drilling in the Shallow Waters of Red Sea – Well No. SMJB-1	15/10/2018	15/05/2020	4500000.00	M
32.	CEW2549	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for the Exploratory Drilling in the Shallow Waters of Red Sea (HYRD-2 well)	12-03-18	30/12/2021	3800000.00	M
	CEW2550	Saudi Arabian Oil Company	Environmental Impact Assessment for the Exploratory Drilling in the Shallow Waters	12-03-18	30/12/2021	3800000.00	

33.		(Saudi Aramco)	of Red Sea (BRQN-6 well)				M
34.	CEW2551	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for the Exploratory Drilling in the Shallow Waters of Red Sea (BRQN-7 well)	12-03-18	30/12/2021	3800000.00	M
35.	CEW2552	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for the Exploratory Drilling in the Shallow Waters of Red Sea (BRQN-8 well)	12-03-18	30/12/2021	3800000.00	M
36.	CEW2573	Saipem Saudi Arabia Ltd	Environmental Monitoring (Compliance and Post Construction) of Water Injection Facilities and Shallow Water Pipelines for Marjan Increment (BI-10- 12201 & BI-10-12222)	20/08/2019	19/08/2022	4664552.00	M
37.	CEW2585	Rabigh Refining & Petrochemicals Co. L.L.C	Annual Marine Environmental Compliance Survey and Bio accumulation Study for Petro Rabigh-2019	10-10-19	31/03/2020	1604000.00	M
38.	CEW2595	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (UMSR-1) - DRSS#1001416951	29/10/2015	31/03/2020	3800000.00	M
39.	CEW2596	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (FRSH-1 BACKUP) - DRSS#1001440889	29/11/2015	31/03/2020	3800000.00	M
40.	CEW2597	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (FRSH-1 BACKUP) - DRSS#1001440889	20/11/2018	31/03/2020	3420000.00	M
41.	CEW2598	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (YNBS-3) - DRSS#1002497405	20/03/2019	31/12/2021	3420000.00	M
42.	CEW2599	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (YNBS-4) - DRSS#1002497415	21/03/2019	31/12/2021	3420000.00	M
43.	CEW2600	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (YNBS-5) - DRSS#1002497416	21/03/2019	31/12/2021	3420000.00	M
44.	CEW2601	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (YNBS-6) - DRSS#1002497418	21/03/2019	31/12/2021	3420000.00	M
45.	CEW2602	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (YNBS-7) - DRSS#1002497419	21/03/2019	31/12/2021	3420000.00	M
46.	CEW2603	Saudi Arabian Oil Company (Saudi Aramco)	Environmental Impact Assessment for Exploratory Drilling in the Shallow Water of Red Sea (SHUR-5) - DRSS#1002461823	02-11-19	31/12/2021	3420000.00	M
47.	CEW2604	Worley Parsons	Environmental Impact Assessment for ZULUF AM platforms Upgrade (BI-10-12741)	26/02/2020	31/12/2020	1456875.00	M
48.	CEW2606	KBR	Environmental Impact Assessment for the Construction of Offshore Facilities in Juaymah (BI-10-14164 & BI-10-14244)	14/04/2020	31/12/2020	1687500.00	M
49.	CEW02608	National Petroleum Construction Co. (Saudi) Ltd.	EIA Zuluf Offshore Upgrade	07-Oct-20	31-Dec-21	1,096,875.00	TL
50.	CEW02609	National Petroleum Construction Co. (Saudi) Ltd.	EIA Abu Safah & Berri Fields	07-Oct-20	31-Dec-21	1,485,000.00	TL
51.	CEW02610	National Petroleum Construction Co. (Saudi) Ltd.	EIA Safaniya Install & Upgrade	07-Oct-20	31-Dec-21	1,383,750.00	TL

52.	CEW02619	Amec Foster Wheeler Energy and Associates Engineering	NEOM Project (RFP-100775)	01-Jan-21	31-Dec-22	4,316,000.00	TL
53.	CEW2620	KBR	Environmental Impact Assessment for the replacement of 48" CLS-14 pipeline in Ras Tanura (BI-10-15517)	20/07/2020	31/03/2021	1631250.00	M
54.	CEW2621	KBR	Environmental Impact Assessment for The Replacement of Water Injection Pipeline Facilities in Berri Offshore Field (Bi-12-19000)	15/07/2020	31/03/2021	1574062.00	M
55.	CEM02613	Snamprogti Saudi Arabia Co. Ltd.	Environmental Compliance Monitoring	15-Apr-21	31-Dec-24	5,590,000.00	M
56.	CEW02625	Rabigh Refining and Petrochemical Company	AMECS & BS - 2020	29-Jun-20	31-Mar-21	1,626,450.00	TL
57.	CEW02642	China Harbor Engineering Arabia Ltd	Sheybarah-Ummahat Monitoring	17-Jan-21	31-Jul-22	3,230,950.00	TL
58.	CEM02645	China Harbor Engineering Arabia Ltd	Environmental Monitoring (during construction-phase) for the Piling and Foundation Works of Sheybarah and Ummahat Alshaykh Islands (Package2)	01-Jun-21	02-Dec-22	4,699,650.00	TL
59.	CEW02647	WorleyParsons Engineering Consultants	EIA Safaniya (BI-12-19000)	31-Jan-21	30-Sep-21	1,856,250.00	TL
60.	CEM02662	Public Investment Fund	Environmental assessment for the selection of prime site to build project	29-Apr-21	31-Dec-21	817,000.00	TL
61.	CEM02670	National Committee for the Clean Development Mechanism	Greenhouse Gas Emission Study	15-Aug-21	15-Feb-23	860,000.00	M
62.	CEM02630	Snamprogti Saudi Arabia Co. Ltd.	Environmental Compliance Monitoring and Post-Construction Monitoring for the Replacement of Water Injection Pipeline Facilities in Berri Offshore Field (BI-12-19000)	20-Jul-22	31-Jan-25	2,860,102.00	M
63.	CEM02650	National Center for Wildlife	Baseline Status of Pollutants, Dust and Noise in The Uruq Bani Mu'arid Protected Area	28-Nov-21	27-Nov-22	1,224,556.00	M
64.	CEM02669	NEOM	Consultancy Services to NEOM in the Execution of Fast Track Environmental Technical Services	23-Sep-21	28-Dec-23	15,000,000.00	M
65.	CEM02685	Snamprogti Saudi Arabia Co. Ltd.	Environmental Impact Assessment for the Installation of Auxilliary Platforms and Replacement of Pipelines and Associated Facilities in the Zuluf Oil Field (BI-12-19000 / BI-12-20000)	04-Jan-22	03-Oct-22	1,476,600.00	M
66.	CEM02691	Snamprogti Saudi Arabia Co. Ltd.	Environmental Impact Assessment for One Oil Producer & Two Water Injection Production Deck ?Modules and Associated Facilities in Marjan Field	04-Jan-22	03-Oct-22	1,278,800.00	TL
67.	CEM02692	Snamprogti Saudi Arabia Co. Ltd.	Environmental Impact Assessment for the One Oil Production Deck Module at ABSF 221/231 and its Associated Facilities	04-Jan-22	03-Oct-22	1,200,600.00	TL
68.	CEM02700	Snamprogti Saudi Arabia Co. Ltd.	Marine Environmental Sustaining Research Project - VII	30-Dec-21	30-Dec-26	11,325,266.00	M
69.	CEM02717	Kellogg Brown Androt Ltd. - Azmy Abdel Latif Abdel Hadi and Abdullah Muhanna Al Moaibed	EIA for Water Injection Facilities and Oil Pipeline for Manifa	17-May-22	30-Apr-23	2,714,625.00	

		Engineering Consultants					TL
70.	CEM02719	WorleyParsons Engineering Consultants	Environmental Impact Assessment for the Development of Marjan Gas Lift Facilities (BI-10-14848)	12-Jun-22	11-Jun-23	2,063,043.75	TL
71.	CEM02720	WorleyParsons Engineering Consultants	Environmental Impact Assessment for the Safaniyah Development of Offshore oil and Water Injection Facilities (BI-10-14854)	12-Jun-22	11-Jun-23	3,218,186.80	TL
72.	CEM02727	Saudi Arabian Oil Company (Aramco)	EIA for Safaniyah and Manifa Offshore Terminals	21-Jul-22	05-Jul-23	2,700,000.00	M

EDITORIAL AND REVIEWER BOARD MEMBER

1. Associate Editor of the Springer Nature Journal "Water, Air, & Soil Pollution" (Impact Factor: 3.8) (Joining Date: Jan 2024)
(<https://link.springer.com/journal/11270/editors>)
2. Associate Editor of the Springer Nature Journal "Environment, Development and Sustainability" (Impact Factor: 4.7) (Joining Date: Mar 2024)
(<https://link.springer.com/journal/10668/editors>)
3. Early Career Editorial Board Member of "Resources, Environment and Sustainability (RES)" (Impact Factor: 12.1), (ISSN: 2666-9161, Publisher: Elsevier, Joining Date: Feb 2022)
(<https://www.journals.elsevier.com/resources-environment-and-sustainability>)
4. Member of Editorial board *Sustainability* Journal
(https://www.mdpi.com/journal/sustainability/sectioneditors/resources_sus_utilization)
(ISSN: 2071-1050, Publisher: MDPI, Joining Date: Dec 2020)
5. Guest Editor of Special issue "Frontiers in Nanomaterials Utilization in Water Treatment" in *Sustainability* journal.
(https://www.mdpi.com/journal/sustainability/special_issues/nano_utilization_in_water_treatment)
(ISSN: 2071-1050, Publisher: MDPI, Online Date: Mar 2021)
6. Guest Editor of Special issue "Nanomaterials-Based Catalysts for Degradation of Pollutants" in *Catalysts* journal.
(https://www.mdpi.com/journal/catalysts/special_issues/ON03V417R4)
(ISSN: 2073-4344, Publisher: MDPI, Online Date: Jul 2022)

COMMITTEE WORK

Chair

1. Chair of the College of Engineering Website Committee at the University of Sharjah (From Aug 2023 to date)
2. Chair of the Department of Mechanical & Nuclear Engineering Website Committee at the University of Sharjah (From Aug 2023 to date)

Member

3. Member of the Department of Mechanical & Nuclear Engineering **Outreach Committee** at the University of Sharjah (From Aug 2023 to date)
4. Member of the Department of Mechanical & Nuclear Engineering **Department Examination Committee** at the University of Sharjah (From Sep 2023 to date)

5. Member of the Department of Mechanical & Nuclear Engineering **Graduate Studies Committee** at the University of Sharjah (From Feb 2023 to date)
6. Member of the Department of Mechanical & Nuclear Engineering **Student Disciplinary Committee** at the University of Sharjah (From Feb 2023 to date)
7. Member of the Department of Mechanical & Nuclear Engineering **Research Committee** at the University of Sharjah (From Feb 2023 to date)
8. Member of the Department of Mechanical & Nuclear Engineering **Ad-hoc Strategic Plan Committee** at the University of Sharjah (From Mar 2023 to Aug 2023)
9. Member of the **Faculty Search Committee** for the Chemical & Water Desalination Engineering Program at the University of Sharjah (Jan 2024-Aug 2024)
10. Member of the Jury of the Senior Design Project Exhibition (2022-2023) of the College of Engineering at the University of Sharjah (May 2023)
Led the Committee to prepare the course for the Diploma in Chemical and Petroleum Engineering to be offered by the Continuing Education Center at the UOS (Feb 2023)
11. Member of the Proposal Evaluation Standing Committee of the Research Institute, KFUPM (From Sep 2018 to October 2019)
12. Member of the Lab Renovation and Design Committee, Center for Environment and Water, KFUPM, Saudi Arabia (Sep 2017-to date)
13. Member of the Incentivizing Personnel Committee, Research Institute, Saudi Arabia (Jan 2019-Dec 2019)
14. Member of the recruitment committee, Center for Environment and Water, KFUPM, Saudi Arabia (Jan 2018-to date)
15. Member of the Proposal Evaluation Standing Committee of the Research Institute, KFUPM (From Sep 2018 to October 2019)
16. Member of the Lab Renovation and Design Committee, Center for Environment and Water, KFUPM, Saudi Arabia (Sep 2017-to date)
17. Member of the Incentivizing Personnel Committee, Research Institute, Saudi Arabia (Jan 2019-Dec 2019)
18. Member of the recruitment committee, Center for Environment and Water, KFUPM, Saudi Arabia (Jan 2018-to date)

HONORS AND AWARDS

- **Feb 2023:** Outstanding Reviewer Award from Particuology Journal for the year 2022
- **May 2022:** Recipient of the KFUPM-Early Career Research Award from KFUPM for the period 2017-2022.
- **Oct-2021:** Enlisted in the top 2% of scientists in the world rankings of 2021 (Chemical Engineering and Environmental Sciences), released by Stanford University researchers (both for the year 2020 and career).
- **Nov-2020:** KFUPM highly cited paper award for the year 2019-2020
- **March 2021:** IOP Publishing 'Outstanding Reviewer' Award Winner for 2020.
- **May 2007:** Gold Medal for First Position in B.Sc Chemical Engineering from UET Peshawar, Pakistan.
- **Sep 2012-Mar 2016:** Open Merit Scholarship for PhD Study from KFUPM.
- **Sep-2015:** Winner of the MEPEC 2015 ChemME debate competition in the Kingdom of Bahrain.
- **Sep-2007:** Nominated for the Presidential Award "Izaz-e-Fazilat" by Higher Education Commission (HEC) of Pakistan.
- **April 2019-Jan 2020:** Granted the award for "High Quality/Impact Research Publication Initiative"- Ministry of Education, Saudi Arabia.

SEMINARS, PRESENTATIONS, AND SHORT COURSES DELIVERED

1. Presented a seminar to graduate students entitled “[Potential of Carbon Nanotubes in Water Treatment and Desalination](#)” organized by the Department of Mechanical and Nuclear Engineering, College of Engineering, University of Sharjah on September 14, 2023.
2. Presented a seminar in the annual Master’s Seminar series in Environmental Science and Engineering (2023) at the University of Sharjah, UAE on February 28, 2023.
3. Presented a seminar “[Unlocking the Potential of MXenes: The Next Frontier in Sustainable Water Treatment and Desalination](#)” in the third Seminar series of Spring 2022-2023 arranged by the Department of Mechanical and Nuclear Engineering at the University of Sharjah, UAE on May 08, 2023.
4. Presented an online seminar “[UN Sustainable Development Goal 6-Clean Water and Sanitation](#)” on the IWISTER Pakistan platform on June 19, 2023.
5. [Carbon nanotube-based membranes: A potential breakthrough technology for water purification](#). November 07, 2019, KFUPM Saudi Arabia
6. [Guidelines for conducting an effective literature review](#). June 18, 2020, KFUPM Saudi Arabia
7. [Waste management and minimization techniques](#), July 8, 2019, KFUPM Saudi Arabia
8. [Conducted a short course on technical writing as a mentor for newly joined engineers and techniques](#), May-August 2020, KFUPM Saudi Arabia
9. [Delivered webinars and invited talks online on various platforms](#).

REVIEW OF TECHNICAL REPORTS, PAPERS, AND PROPOSALS

Reviewed manuscripts for the following Journals:

Reviewed 510 papers for > 100 journals. Some of the representative journals are listed below:

10. Chemical Society Reviews
11. Renewable & Sustainable Energy Reviews
12. Applied Catalysis B: Environmental
13. Chemical Engineering Journal
14. Desalination
15. Water Research
16. Journal of Hazardous Materials
17. Journal of Cleaner Production
18. Separation and Purification Technology
19. Science of the Total Environment
20. Chemical Engineering Research and Design
21. Scientific Reports
22. Nature Communications
23. Journal of Water Process Engineering
24. Journal of Environmental Chemical Engineering
25. Environmental Pollution
26. ACS Applied Nano Materials
27. Nano Research
28. Chemosphere
29. Materials Today Chemistry

CONFERENCES, WORKSHOPS AND SEMINARS ATTENDED

1. Attended the Sharjah International Conference on Physics of Advanced Materials (SICPAM) at the University of Sharjah (Apr 2023)
2. Attended 1st International Conference on Sustainable Energy and Power Systems (SEPS23) held at the University of Sharjah (Mar 2023)
3. IDA - SWCC DTRI Specialty Conference on Ocean Brine Mining for Desalination, March 21-23, 2022, in Al Khobar, Saudi Arabia.
4. 24th Annual Saudi-Japan Symposium on Technology in Petroleum Refining & Petrochemicals (2014), KFUPM, Saudi Arabia.
5. 13th KFUPM-MIT workshop on Clean Water and Clean Energy (2015), KFUPM, Saudi Arabia.
6. 4th Saudi International Nanotechnology Conference (SINC-2016), KFUPM, Saudi Arabia.
7. 15th KFUPM-MIT workshop on Clean Water and Clean Energy (2015), KFUPM, Saudi Arabia.
8. 26th Annual Saudi-Japan Symposium on Technology in Petroleum Refining & Petrochemicals (2016), KFUPM, Saudi Arabia.
9. First Exploration and Production (E & P) Technical Exchange Symposium (EPTECH 2017) KFUPM, Saudi Arabia.
10. 27th Annual Saudi-Japan Symposium on Technology in Petroleum Refining & Petrochemicals (2017), KFUPM, Saudi Arabia
11. 5th Water Arabia Conference & Exhibition (2017), Al-Khobar, Saudi Arabia
12. Saudi Aramco-KFUPM Biodiversity Stewardship Workshop (2017), KFUPM, Saudi Arabia.

INDUSTRIAL EXPERIENCE

- Four weeks of training as an intern in Pakistan Refinery Limited, Karachi (Pakistan) in 2005.
- Forty-five days of training as an intern in Dawood Hercules Chemicals Limited, Lahore, Pakistan in 2006.