



# Adnan A. AbdulRazak

عدنان عبد الجبار عبد الرزاق عثمان

Professor

## ACADEMIC TITLES

2019-11-18

Professor

## ADMINISTRATIVE POSITIONS

2019-01-18 - Present

Deputy head of chemical engineering department

## PUBLICATIONS ( 1 2 4 )

- Performance Optimization of PES/Bi<sub>2</sub>WO<sub>6</sub>-TiO<sub>2</sub> Mixed-Matrix Membranes for High-Efficiency Treatment of Contaminated Wastewater**  
*Chemical Engineering Journal Advances*, 2026 | 2026
- Synergistic Engineering of PES Nanocomposite Membranes via Bi<sub>2</sub>WO<sub>6</sub>/TiO<sub>2</sub> Nanowire Heterojunctions for Advanced Wastewater Treatment**  
*Case Studies in Chemical and Environmental Engineering*, 2026 | 2026 | Cited: 2
- Optimization of Operating and Preparation Parameters of TiO<sub>2</sub>-BiFeO<sub>3</sub> Nanoparticle-Integrated PES Membranes for Dye Removal**  
*Desalination and Water Treatment*, 101781, 2026 | 2026
- Plastic waste-based Cu-BDC and COOH-MWCNT@Cu-BDC MOF for enhancing PPSU membrane for efficient heavy metal removal from industrial wastewater**  
*Journal of Environmental Chemical Engineering* | 2026
- Influence of Functionalization Solvents and Ligands on Fe(III) Catalysis in Epoxide Ring-Opening Reactions Using Mesoporous Silica Supports**  
*ChemistrySelect* | 2026
- A novel Bi<sub>2</sub>WO<sub>6</sub>/MWCNTs-decorated PES photocatalytic membrane for efficient dye removal**  
*Journal of Membrane Science* | 2026 | Cited: 10
- Comparative performance of graphene and MXenes in flexible pressure sensors**  
*Sensors & Diagnostics*, 2026 | 2026 | Cited: 3
- Biogas and Biomethane Production via Anaerobic Digestion: Experimental Analysis and Modeling Using Hybrid ANN-GA Optimization**  
*Sustainable Chemistry for the Environment*, 2026 | 2026
- Advanced green functional groups for tailoring the membrane features and performance in contaminated wastewater treatment: a comprehensive review**  
*RSC Advances* 16, 22166–22185, 2026 | 2026
- Functional roles of magnetic iron oxide nanoparticles in mixed matrix membrane technology for wastewater treatment: a critical review**  
*RSC Advances* 16, 18287–18310, 2026 | 2026 | Cited: 4
- Tuning Fabrication and Operating Conditions of PES/Bi<sub>2</sub>WO<sub>6</sub>/MWCNTs Membranes for Improved Dye Separation Performance**  
*chemengineering* 10 (44), 2026 | 2026
- Modeling and Optimization of PPSU/Cu-BDC MMMs and PPSU/COOH-MWCNT@ Cu-BDC MMMs for Enhanced Water Treatment Performance**  
*Engineering and Technology Journal* 44 (3), 37-61, 2026 | 2026

## CONTACT

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## EDUCATION

Doctorate (2004-04-28)

Chemical Engineering

University of Technology /Baghdad-Iraq

## RESEARCH METRICS

h-index (Scopus) 25

h-index (GS) 27

Citations (Scopus) 1539

Citations (GS) 2002

Documents (Scopus) 81

Documents (GS) 108



13. **Plastic waste-based Cu-BDC and COOHMWCNT@ Cu-BDC MOF for enhancing PPSU membrane for efficient heavy metal removal from industrial wastewater**  
*Journal of Environmental Chemical Engineering*, 2025 | 2025 | Cited: 4
14. **Fabrication, characterization, and modification of a novel polyethersulfone (PES) mix matrix membrane via BiFeO<sub>3</sub> as a hydrophilic additive to improve permeability and&nbsp;...**  
*Environmental Science and Pollution Research*, 2025 | 2025 | Cited: 6
15. **Thermogravimetric Analysis Integrated with Mathematical Methods and Artificial Neural Networks for Optimal Kinetic Modeling of Biomass Pyrolysis: A Review**  
*ACS Omega*, 2025 | 2025 | Cited: 11
16. **Recent progress in adsorptive removal of different contaminants by chitosan-based aerogel**  
*RCS Advances* 15, 29727, 2025 | 2025 | Cited: 9
17. **Optimal operating conditions of PES/BiFeO<sub>3</sub> mixed matrix membrane for treating dye-contaminated wastewater**  
*Results in Engineering*, 2025 | 2025 | Cited: 10
18. **Advancements in multifunctional nanomaterials for synergistic photocatalytic and adsorptive water treatment processes**  
*Results in Chemistry* 15, 102292, 2025 | 2025 | Cited: 3
19. **A Review of Recent Advances in Cold Plasma Technology in the Oil Industry: A Sustainable Alternative for Phenol Degradation to Conventional Treatment Methods**  
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20. **Investigation of toluene alkylation with hept-1-ene over fresh and modified h-beta catalysts according to apparent activation energy values**  
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21. **Modeling and optimizing Phenol degradation in aqueous solution using post discharge DBD plasma treatment**  
*Desalination and Water Treatment*, 2025 | 2025 | Cited: 13
22. **Treating wastewater contaminated with congo red (CR) dye using an optimized polyethersulfone/propolis (bee glue) PES/PRS ultrafiltration membrane**  
*RSC Advances* | 2025 | Cited: 19
23. **Fabrication, characterization, and modification of a novel polyethersulfone (PES) mix matrix membrane via BiFeO<sub>3</sub> as a hydrophilic additive to improve permeability and antifouling features**  
*Environmental Science and Pollution Research* | 2025
24. **A novel Poly(ether-Sulfone) mixed matrix membranes infused with TiO<sub>2</sub>-BiFeO<sub>3</sub> nanomaterials for the removal of toxic Congo red dye from textile wastewater**  
*Chemical Engineering Journal Advances*, 100867, 2025 | 2025 | Cited: 7
25. **Nanosilica-incorporated polyethersulfone-polytetrafluoroethylene dual-layer hollow fibers for direct contact membrane distillation**  
*Journal of Materials Science*, 1-25, 2025 | 2025 | Cited: 1
26. **Correction: Nanosilica-incorporated polyethersulfone-polytetrafluoroethylene dual-layer hollow fibers for direct contact membrane distillation**  
*Journal of Materials Science*, 1-1, 2025 | 2025 | Cited: 1
27. **Demulsification of Basra Crude Oil using Chemical Demulsifier and Ultrasonic**  
*Petroleum Chemistry*, 2025 | 2025 | Cited: 2
28. **Modeling and Optimization of MXene/PVC Membranes for Enhanced Water Treatment Performance**  
*materials* 18, 3494, 2025 | 2025 | Cited: 1
29. **Lab-scale sequencing batch reactor online monitoring and control for biological treatment of synthetic wastewater**  
*Desalination and Water Treatment*, 101326, 2025 | 2025 | Cited: 1
30. **Utilization of semiconductor-decorated tungsten trioxide nanowire membranes for the elimination of microorganisms from potable water**  
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31. **Biosynthesis and Characterization of Iron Oxide Nanoparticles from Agricultural Waste for Reduction of the Crude Oil Viscosity**  
*Petroleum Chemistry, 2025 | 2025*
32. **Enhancing membrane performance through photocatalyst-integrated core/shell nanocomposites a review**  
*CHEMICAL ENGINEERING COMMUNICATIONS, 2025 | 2025 | Cited: 1*
33. **Modification of Polylactide-poly (butylene adipate-co-terephthalate) (PLA/PBAT) Mixed-Matrix Membranes (MMMs) with Green Banana Peel Additives for Oil Wastewater Treatment**  
*Water | 2024 | Cited: 30*
34. **A Novel Polyethersulfone/Chamomile (PES/Chm) Mixed Matrix Membranes for Wastewater Treatment Applications**  
*Journal of Saudi Chemical Society, 101805, 2024 | 2024 | Cited: 31*
35. **Metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and hydrogen-bonded organic frameworks (HOFs) in mixed matrix membranes**  
*Materials Today Sustainability, 100672, 2024 | 2024 | Cited: 101*
36. **Desulfurization of Light Distillate by Catalytic Oxidation Integrated with Emulsification**  
*Chemistry Africa, 2024 | 2024 | Cited: 1*
37. **Oily wastewater treatment using low-cost and highly efficient natural and activated Iraqi bentonite**  
*Desalination and Water Treatment, 2024 | 2024 | Cited: 27*
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*Chemengineering 8, 92, 2024 | 2024 | Cited: 15*
41. **Synthesis, characterization, and performance of MXene-Modified PVC Membranes for organic and inorganic separation**  
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*Chemical Engineering Communications | 2024 | Cited: 3*
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*Asian Journal of Water, Environment and Pollution | 2024*
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*2023*
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71. **Research Article Reaction Kinetics of Cinnamaldehyde Hydrogenation over Pt/SiO<sub>2</sub>: Comparison between Bulk and Intraparticle Diffusion Models**  
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2018
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