Ziad Abu El-Rub, Ph.D. | Curriculum Vitae

PERSONAL INFORMATION

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CAREER SUMMARY

Dr. Ziad Abu El-Rub is a seasoned Chemical Engineer with over 20 years of experience in academia, research, and industry, specializing in biomass energy, gasification systems, and sustainable technologies. He currently serves as the Director of the Center for e-Learning and Academic Performance Improvement, Vice Dean of the School of Applied Medical Sciences, and Associate Professor at the German Jordanian University. Dr. Abu El-Rub holds a Ph.D. in Chemical Engineering from the University of Twente and has made significant contributions to research, securing over USD 1 million in funding, developing new academic programs, and establishing industry partnerships. His academic leadership includes the successful launch of MSc programs, accreditation processes, and green energy initiatives. Additionally, he has extensive experience in technical sales, business development, and project management in the petrochemical industry, having led strategic projects and collaborations in the MENA region. As a certified Consultant and Professional Engineer, Dr. Abu El-Rub remains committed to advancing innovation, sustainability, and education through academic and industrial engagement.

EDUCATION

2002-2007 **Ph.D. in Chemical Engineering**
University of Twente, the Netherlands
Dissertation: Biomass char as an in-situ catalyst for tar removal in gasification systems
Supervisor: Prof. Gerrit Brem

2000-2002 **Master of Technological Design**
University of Twente, the Netherlands
Thesis: High-temperature catalytic tar removal from producer gas of biomass-fueled gasifiers

1993-1998 **B.Sc. in Chemical Engineering**
University of Jordan, Jordan
Thesis: Plant design for biogas production from Amman's municipal solid waste
GPA: 3.48 /4.00 (Rank: 3rd)

LICENSES AND CERTIFICATION

2018 **Consultant Engineer (JCE) in Chemical Engineering**
Jordan Engineers Association, Amman, Jordan
Awarded by the Jordan Higher Council for Professional Qualifications and Accreditation

2015 **Professional Engineer (JPE) in Bioenergy Engineering**
Jordan Engineers Association, Amman, Jordan
Awarded by the Jordan Higher Council for Professional Qualifications and Accreditation

PROFESSIONAL EXPERIENCE

2024-Present **Director**
Center for e-Learning and Academic Performance Improvement (CeLAPI), German Jordanian University, Jordan.

2024-Present **Vice Dean**
School of Applied Medical Sciences, German Jordanian University, Jordan.

2024-Present **Associate Professor**
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

2022-2024 **Associate Professor**
Chemical Engineering Department, American University of the Middle East (AMU), Kuwait.

- Lead scholarly research, teaching, and student advising at both undergraduate and graduate levels.
- Chair, Chemical Engineering Labs Committee: Spearheaded lab upgrades, modernized safety protocols, and enhanced the student learning experience.
- Founder and Advisor, Green Energy Club: Established and led a student organization focused on green energy initiatives, fostering student engagement and increasing awareness of sustainable practices.

2021-2023 **Associate Professor**

2012-2021 **Assistant Professor**
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

- Led scholarly research, teaching, and student advising at both undergraduate and graduate levels.
- Research Funding Success: Secured over USD 1 million in research grants, supporting innovative projects and contributing to the advancement of the field.
- Publications: Authored and co-authored numerous peer-reviewed publications in leading academic journals.

2020-2022 **Acting Department Head**
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

- Program Development: Successfully launched a new MSc program in Pharmaceutical and Chemical Engineering, significantly increasing enrollment and program visibility.
- Industry Partnership: Developed a Dual Study track for the BSc program, forging strong industry partnerships and boosting student job placement rates.
- Accreditation Success: Led the ASIIN accreditation process for the BSc program, ensuring quality standards and enhancing program reputation.

2020 **Train the Trainer**
Pharmaceutical and Chemical Engineering Department, Beuth Hochschule für Technik Berlin, Germany

- Teaching Chemical Engineering Reaction

2016-2020 **Dean Assistant for Industrial Relations**
Schools of Applied Medical Sciences, German Jordanian University, Jordan.

- Chair, GJU Industrial Relations Committee: Fostered collaboration with industry partners, developing cooperative agreements encompassing training, co-teaching, co-supervision, workshops, and funding opportunities.

2011 –2012 **Regional Manager for the Middle East and North Africa**
ASCOM Separation Company, the Netherlands.

- Sales Leadership: Successfully achieved sales targets through the development of process designs and technical sales strategies for ASCOM's separation technologies in the MENA region.
- Technical Expertise: Led the design and qualification of advanced separation equipment for crude oil, water, gas, and sand applications.

2007 – 2010 **Business Development Manager**
PetroLink Holding Company, Kuwait

- Project Management: Spearheaded a project to establish a US$120 million polyethylene terephthalate (PET) plant in Kuwait, overseeing technical studies and ensuring successful project initiation.
- Strategic Partnerships: Collaborated with investment companies and technology developers to assess the market, technical, and commercial viability of various energy and petrochemical projects.

1998 –1999 **Quality Control Manager**
National Paints Factories, Jordan

- Managed quality control labs and implemented advanced testing methods, ensuring product quality and compliance with industry standards.

TEACHING EXPERIENCE

2022-Present **American University of the Middle East (AMU)**, *Department of Chemical Engineering*

- Chemical Reaction Engineering
- Chemical Engineering Lab (Aspen Hysys Simulation)
- Design and Analysis of Processing Systems
- Transforming Ideas to Innovation I
- Chemical Engineering Sophomore Seminar

2012-2022 **German Jordanian University**, Department of Pharmaceutical and Chemical Engineering:

- Chemical Reaction Engineering
- Fluid, Heat and Reaction Engineering Lab
- Pharmaceutical Plant Design
- Industrial Processes Management
- Chemical Engineering Economics
- Fluid Mechanics for Chemical and Medical Engineers
- Introduction to Pharmaceutical and Chemical Engineering
- Principles of Chemical Engineering
- Graduation Project I
- Graduation Project II
- General Chemistry & Lab
- Separation Processes Lab

- Shale Oil Production Processes
- Introduction to Oil and Gas Production
- Technical Writing

HONORS AND RECOGNITION

2024	Third Place Award for Outstanding Graduation Projects in Chemical Engineering, AUM Innovation Fair 2024, Kuwait.
2019	Distinguished Industrial Professor Award of excellence, German Jordanian University.
2018	Best Presentation Award, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
2017	• Second Prize, Industrial Graduation Projects Competition (Chemical Engineering), Jordan Engineers Association and Amman Chamber of Industry. • Certificate of Excellence for Distinguished Academic Performance, German Jordanian University.
2016	• First Prize –Graduation projects competition 2016 – Chemical Engineering, organized by the Jordan Engineers Association and Amman Chamber of Industry, Jordan. • USD 100,000 fund for the Research project: Elimination of Tar produced from biomass gasification using Jordanian low-cost mineral catalysts, German Jordanian University. • Certificate of excellence for distinguished academic performance for the year 2015/2016, German Jordanian University.
2015	USD 783,000 Grant for Erasmus+ Project: "Vocational training Center for undergraduate university students and teachers in Jordan."
2013-2016	Industrial Experience Allowance Award, German Jordanian University.

RESEARCH

Research Interests

1. Catalysis: Catalytic tar removal in biomass conversion processes

2. Biomass energy conversion: Thermochemical (pyrolysis, gasification) and biochemical (anaerobic digestion)

3. Oil shale pyrolysis: Thermogravimetric Analysis, kinetics and modeling

4. Wastewater treatment: Membrane distillation

5.Renewable energies: Phase change materials, solar chimney power plants, insulation materials

6. Transforming higher education through AI and educational technology

Thesis Supervision & Examination

Examiner – MSc Theses

- Hamzeh Al-Omari: "Olive mill wastewater treatment using membrane technology" (Chemical Engineering, Jordan University of Science and Technology, 2019).
- Fadi Alrawash: "Treatment of olive mill wastewater using membrane distillation" (Chemical Engineering, Jordan University of Science and Technology, 2019).

Supervisor - MSc Theses

- Mathijs Snippert: "Characterization of biomass char as a catalyst for tar reduction in a fixed bed reactor" (Thermal Engineering Laboratory, University of Twente, 2004).
- Jorke Jellema: "Catalytic Tar Reduction from Biomass Gasification Gas using Wood Char as a Catalyst" (Thermal Engineering Laboratory, University of Twente, 2003).

PUBLICATIONS

Peer-reviewed Journals (Selected, >1,830 Google Scholar Citations)

1. Emad Abdelsalam, **Ziad Abu El-Rub**, Malek Alkasrawi, Dana Ibrahim, Ahmad Azzam, Tareq Salameh, Abdul Ghani. (2023). A Novel Design of a Twin-Chimney Solar Power Plant for Power and Distilled Water Production. Thermal Science and Engineering Progress. 46, 102231. DOI.
2. **Ziad Abu El-Rub**, Dina Halawa, Iman Alqudah, Abdullah Nasr, Muhammad Naqvi. (2023). Natural zeolite catalyst for tar removal in biomass gasification Systems: Kinetics and effectiveness evaluation. Fuel. 346, 128393. DOI
3. **Ziad Abu El-Rub**, Rajwa Abu Hassan, Rami Alnajjar, Malek Alkasrawi. (2022). Kinetics of Natural Kaolinite as a Catalyst for Toluene Dry Reforming. Jordanian Journal of Engineering and Chemical Industries. 5(3), 71-77.
4. Samer Al-Gharabli, **Ziad Abu El-Rub**, Eyad M. Hamad, Wojciech Kujawski, Zuzanna Flancc, Katarzyna Pianka, Waldemar Jankowski, Joanna Kujawa. (2022). Toward anti-fouling properties and enhanced performance in separation process - carbon nanotubes - PVDF hybrids. Applied Surface Science. 602, 154341.DOI.
5. Mohammad F. Khanfar, Taleen S. Kopti, Natalie O. Gharaibeh, and **Ziad Abu El-Rub**. (2021). Differential pulse voltammetry as an alternative method for tracking Hydrochlorothiazide electrolytic degradation. Jordanian Journal of Engineering and Chemical Industries. 4(3), 70-77. DOI
6. Samer Al-Gharabli, **Ziad Abu El-Rub**, Eyad M.Hamad, Wojciech Kujawski, Zuzanna Flanc, Katarzyna Pianka and Joanna Kujawa. (2021). Surfaces with Adjustable Features—Effective and Durable Materials for Water Desalination. International Journal of Molecular Sciences. 22, 11743.DOI.
7. Eyad M. Hamad , Aseel Khaffaf, Omar Yasin, **Ziad Abu El-Rub**, Samer Al-Gharabli, Wael Al-Kouz, and Ali Chamkha. (2021). Review of nanofluids and their biomedical applications. Journal of Nanofluids. 10, 463–480. DOI.
8. Muhammad Tawalbeh, Amani Al-Othman, Tareq Salamaha, Malek Alkasrawi, Remston Martis, **Ziad Abu El-Rub**. (2021). A critical review on metal-based catalysts used in the pyrolysis of lignocellulosic biomass materials. Journal of Environmental Management. 299, 113597. DOI.
9. **Ziad Abu El-Rub**, Joanna Kujawa, Samer Al-Gharabli. (2020). Pyrolysis Kinetic Parameters of Omari Oil Shale using Thermogravimetric Analysis. Energies 13 (16), 1-13. DOI.
10. **Abu El-Rub, Z.** (2019). TGA and BET Characterization of Spent Oil Shale as a Catalyst in Biomass Tar Removal Applications. International Journal of Smart Grid and Clean Energy 2019, 8(6)680-687.DOI.
11. **Ziad Abu El-Rub**, Joanna Kujawa, Esra'a Albarahmiah, Nafisah Rifai, Fathieh Qaimari, Samer Al-Gharabli. (2019). High Throughput Screening and Characterization Methods of Jordanian Oil Shale as a Case Study. Energies 2019, 12(16), 3148. DOI.
12. **Ziad Abu El-Rub**, Eddy Bramer, Samer Al-Gharabli, and Gerrit Brem. (2019). Impact of char properties and reaction parameters on naphthalene conversion in a macro-TGA fixed char bed reactor. Catalysts 2019, 9, 307.DOI.

13. Samer Al-Gharabli, Eyad Hamad, Munib Saket, **Ziad Abu El-Rub**, Hassan Arafat, Wojciech Kujawski, and Joanna Kujawa. (2018). Advanced material - ordered nano-tubular ceramic membrane covalently capped with single wall carbon nanotubes. Materials 2018, 11(5), 739. DOI.

14. Samer Al-Gharabli, Wojciech Kujawski, **Ziad Abu El-Rub**, Eyad M. Hamad, Joanna Kujawa. (2018). Enhancing membrane performance in removal of hazardous VOCs from water by modified fluorinated PVDF porous material. Journal of Membrane Science, 556, 214-226.DOI.

15. **Abu El-Rub, Z.,** Brem, G., & Bramer, E. A. (2015). Single Char Particle Model for Naphthalene Reduction in a Biomass Gasification System. Biomass and Bioenergy, 72, 19-27.DOI.

16. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2008). Experimental comparison of biomass chars with other catalysts for tar reduction. Fuel, 87(10–11), 2243-2252.DOI.

17. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004). A Review of Catalysts for Tar Elimination in Biomass Gasification Processes. Ind. Eng. Chem. Res., 43, 6911-6919.DOI.

Book

18. Abu El-Rub, Z. and Al-halhouli, A. (2024). The Smart University: A Handbook for Higher Education in the Age of AI (Manuscript submitted for publication).

Conference papers

19. **Abu El-Rub, Z.** (2018). Characterization of a spent-oil shale as a catalyst for tar removal. In: 2018 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore

20. **Abu El-Rub, Z.**, Kähler, B., Al-Khatib, J. (2017). University-Industry Collaboration: A Case Study from the German Jordanian University. In: 3rd MENA Higher Education Leadership Forum, Dubai, UAE.

21. Taftanazi, Y., Neumann, H., Burger, D., Hagelstein, G., **Abu El-Rub, Z.**, Gschwander, S. (2017), Stability study of Phase Change Material between 100 °C and 200 °C. Paper presented at the 8th Jordan International Chemical Engineering Conference, Amman, Jordan.

22. **Abu El-Rub, Z.**, Brem, G., Bramer, E.A. (2016). Parameters affecting the removal of naphthalene over fixed biomass char bed. In: Venice 2016, Sixth International Symposium on Energy from Biomass and Waste, CISA, Venice, Italy. (ISBN 978-88-6265-009-0).

23. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2016). Naphthalene Removal Experiments over a Fixed Bed of Biomass Char. Paper presented at the 5th Global Conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER 2016), Amman, Jordan. Link

24. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2015). Real Tar Removal over Fixed Bed of Biomass Char. Paper presented at the 23rd European Biomass Conference and Exhibition, Vienna, Austria.

25. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2014). Formulation of a Single Char Particle Model for naphthalene Removal in Biomass Gasification. Paper presented at the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.

26. Al-Gharabli, S. I., **Abu El-Rub, Z.**, & Khanfar, M. F. (2014). High Throughput Screening of Oil Content in Jordanian Oil Shale Using ATR-FTIR and Refractive Index Techniques. Paper presented at the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.

27. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004, 30 Aug to 2 Sep). Modeling of Tar Reduction in Biomass Gasification Using Biomass Char as a Catalyst. Paper presented at the Science in Thermal and Chemical Biomass Conversion, Victoria, Vancouver Island, BC, Canada.

28. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004, 10-14 May). Tar Reduction in Biomass Gasification Using Biomass Char as a Catalyst. Paper presented at the Proceeding of Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, Rome.

29. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2003, 2 September - 5 September). Tar Removal in Fixed Bed with Application to Biomass Gasification. Paper presented at the International Nordic Bioenergy 2003 Conference, Proceeding of an Expert Meeting, Jyvaskyla, Finland.

30. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2002, 17-21 June). Removal of Naphthalene as the Model Tar Compound on Calcined Dolomites, Olivine and Commercial Nickel Catalyst in a Fixed Bed Tubular Reactor. Paper presented at the 21st European Conference for Energy, Industry and Climate Protection, Amsterdam, The Netherlands.

31. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2002, 30 September - 1 October 2002). Tar Removal in an Entrained Flow Cracker (EFC) with Application to Biomass Gasification. Paper presented at the Pyrolysis and Gasification of Biomass and Waste, Strasbourg, France.

Conference Presentations

- **Abu El-Rub, Z.,** Abu Hassan, R., Alnajjar, R. (2021). Characterization of Spent Oil Shale as a Catalyst for Tar Removal. In: 2021 Ninth Jordan International Chemical Engineering Conference (JIChEC9, 2021), Amman, Jordan.
- **Abu El-Rub, Z.** (2018). *Characterization of Spent Oil Shale as a Catalyst for Tar Removal.* In: 2018 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
- **Abu El-Rub, Z.,** Kähler, B., Al-Khatib, J. (2017). *University-Industry Collaboration: A Case Study from the German Jordanian University*. In: 3rd MENA Higher Education Leadership Forum, Dubai, UAE.
- **Abu El-Rub, Z.** "Dissemination and Implementation Lecture for VTC Project", 6th global conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER-2018), 3-5 Apr 2018, Amman, Jordan.
- Taftanazi, Y., Neumann, H., Burger, D., Hagelstein, G., **Abu El-Rub, Z.,** Gschwander, S. (2017), *Stability study of Phase Change Material between 100 °C and 200 °C.* Paper presented at the 8th Jordan International Chemical Engineering Conference, Amman, Jordan.
- **Abu El-Rub, Z.** "Removing Model Tar Component over a Fixed Bed of Biomass Char", International Conference of Young Scientists on Innovative Applied Renewable Energy Researches, 18-20 May 2014, German Jordanian University, Amman, Jordan
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., "Formulation of a Single Char Particle Model for naphthalene Removal in Biomass Gasification" published in the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan, 4-6 Nov. 2014
- **Abu El-Rub, Z.,** "Oil Shale Retorting Technologies –Jordanian Perspective", Chemical Engineering Scientific Day, 8 May 2014, Al-Huson College – Al-Balqa University, Irbid, Jordan.
- Vilas S. Koleshwar, Khaled A. Al-Yousef, R. Schook, Z. Abu El-Rub, "De-bottlenecking of Produced Water Treatment in Mature Heavy Oil Fields" Oil and Gas Water Management: From Reservoir to Reuse/Disposal, 20 – 21 March 2012, Intercontinental Hotel, Al-Khobar, Saudi Arabia
- **Abu El-Rub, Z.,** "Inline Desander Qualification", 2nd Annual 2012 Global Sand Management and Control Workshop, 27 Feb-01 Mar 2012, Dubai, UAE.
- Vilas S. Koleshwar, Khaled A. Al-Yousef, R. Schook, **Z. Abu El-Rub**, "De-bottlenecking of Produced Water Treatment in Mature Heavy Oil Fields", 4th Annual 2011 Global Produced Water Management, 24-28 Oct. 2011, Istanbul, Turkey.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., Tar removal using biomass char as a catalyst, Biomass AIO day, held at Wageningen UR, Thursday 29th September 2005.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., Tar reduction using char as a catalyst, Biomass Conversion Symposium, TU Eindhoven/TDO, 11 March 2005.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., High-Temperature Catalytic Tar Removal from Producer Gas of Biomass Fueled Gasifiers, Netherlands Process Technology Symposium (NPS4), 26-27 Oct. 2004, Veldhoven, The Netherlands.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., High-Temperature Catalytic Tar Removal from Producer Gas of Biomass Fueled Gasifiers, Netherlands Process Technology Symposium (NPS3), 28-29 Oct. 2003, Veldhoven, The Netherlands.

FUNDING

Current & Pending Grants

- Development of a Prototype System for the Conversion of Waste Cooking Oil into High-Quality Biodiesel Fuel
  - Funding Source: American University of the Middle East, Kuwait
  - Role: Principal Investigator
  - Amount: USD 10,000
  - Duration: 24 months
- Setting up a Resilient, circular Mediterranean agro-ecosystem for Improved Sustainability (ReMedIS)
  - Funding Source: Scientific Research Support Fund - PRIMA (Partnership for Research and Innovation in the Mediterranean Area)
  - Role: Co-Investigator
  - Amount: USD 43,000
  - Duration: 24 months (Pending)
- Olive Mills Wastewater Valorization and Treatment
  - Funding Source: Scientific Research Support Fund
  - Role: Principal Investigator
  - Amount: USD 140,000
  - Duration: 30 months (Pending)
- Updating the curriculum of chemical engineering to reflect the new trends in the chemical PROCESS industry (CPI)
  - Funding Source: ERASMUS+
  - Role: Coordinator (German Jordanian University)
  - Amount: USD 1,000,000 (Total Grant)
  - Duration: 24 months (Pending)

Past Grants (Selected)

- Elimination of Tar produced from biomass gasification using Jordanian low-cost mineral catalysts
  - Funding Source: German Jordanian University
  - Role: Principal Investigator
  - Amount: USD 100,000
  - Duration: 2016-2019
- Vocational training Center for undergraduate university students and teachers in Jordan
  - Funding Source: ERASMUS+
  - Role: Coordinator (German Jordanian University)
  - Amount: USD 783,000 (Total Grant)
  - Duration: 2015-2018

- Experimental & Economic Evaluation of a Designed Machine for Converting WCO into Biodiesel
  - Funding Source: KADDB and KAFD
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 7,000
  - Duration: 2015-2016
- Investigation of the effect of heating rates on the BET surface area of Jordanian minerals
  - Funding Source: German Jordanian University
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 700
  - Duration: 2017-2019
- Kinetics of toluene dry reforming reaction using Jordanian zeolite as a catalyst
  - Funding Source: German Jordanian University
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 850
  - Duration: 2021-2022

UNIVERSITY SERVICE

American University of the Middle East (AUM), Kuwait

2023 - Present: Head of Labs Committee, Chemical Engineering Department.
2023: Head of Green Energy Club.

German Jordanian University (GJU), Jordan

2021-2022: Member, Study Plan Committee (BSc Pharmaceutical and Chemical Engineering Program)
2020-2022: Member, Committee for Establishing MSc Program in Pharmaceutical and Chemical Engineering
2018-2021: Head, General Safety Committee (School of Applied Medical Sciences)
2015-2018: GJU Coordinator, VTC Erasmus+ Project
2016-2021: Head, GJU Industrial Relations Committee
2014-2022: Liaison Officer, GJU Training Center
2014-2015: Member, Faculty of Applied Medical Sciences Council
2014-2020: Graduation Projects Coordinator
2013-2014: Member, German Jordanian University Council

PROFESSIONAL ACTIVITIES

Conference & Workshop Leadership

2023: Member, International Advisory Board, 3rd BAU International Oil Shale Conference (BAU-OSC-3), Amman, Jordan.
2021:
- Member, Technical Program Committee, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
- Member, Organizing Committee, Second International Oil Shale Conference, Amman, Jordan.

2018:
- Member, Technical Program Committee, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
- Member, Organizing Committee, Second International Oil Shale Conference, Amman, Jordan.

2013-2014: Vice President, Preparatory Committee, 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.
2013: Chair, Workshop "Oil Shale in Jordan: Reality, Potential, and Limitations," Jordan Engineers Association, Amman, Jordan.
2012: Steering Committee Member, 2nd Annual Global Sand Management and Control Workshop, Dubai, UAE.
2011: Steering Committee Member, 4th Annual Global Produced Water Management Workshop, Istanbul, Turkey.

Professional Society Engagement

2018-Present: Board Member, Chemical Engineering Division, Jordan Engineers Association (JEA), Amman, Jordan.
2016-2017: Head, JEA Branches Committee for Workshops, Jordan Engineers Association, Amman, Jordan.
2016-2022: Advisory Board Member, Engineering Training Center, Jordan Engineers Association, Amman, Jordan.
2015-2018: Board Member, Chemical Engineering Division, Jordan Engineers Association, Amman, Jordan.
2014-2015: Member, Chemical Engineering Graduation Projects Evaluation Committee, Jordan Engineers Association, Jordan.
2013-2015: Head, Chemical Engineering Scientific Committee, Jordan Engineers Association, Amman, Jordan.

Academic Advisory Roles

2014-Present	Advisory Board Member, Chemical Engineering Department, Jordan University of Science and Technology, Irbid, Jordan.

Professional Memberships

2006-Present	Jordan Engineers Association
2009	Society of Petroleum Engineers

Journal Reviewer

- Industrial & Engineering Chemistry Research
- Energy & Fuels
- Fuel Processing Technology
- Biofuels
- Thermal Science and Engineering Progress

LANGUAGES

Arabic:	Native
English:	Fluent
Dutch:	Basic
German:	Basic

SKILLS

MS Office Applications:	Word, Excel, PowerPoint, Outlook, MS Visio, MS Project
Chemical Engineering Softwares:	ASPEN PLUS, ASPEN HYSYS

REFERENCES

Available upon request.