FACULTY VITAE

GENERAL INFORMATION		
Name	**Nationality**	
Dr. Mohammad Ahmad Aliedeh	Jordanian	

EDUCATION			
DEGREE	**DISCIPLINE**	**INSTITUTION**	**YEAR**
Bachelors	Chemical Engineering	Chemical Engineering Department, College of Engineering, Jordan University of Science and Technology (J.U.S.T), Jordan	1992
Masters	Chemical Engineering	Chemical Engineering Department, College of Engineering, Jordan University of Science and Technology (J.U.S.T), Jordan	1997
Ph.D.	Chemical Engineering	Chemical Engineering Department, College of Engineering, New Mexico State University, USA	2004

ACADEMIC EXPERIENCE			
INSTITUTION	**RANK/TITLE**	**PERIOD**	**FT/PT**
Chemical Engineering Department, College of Engineering, Mu'tah University, Jordan	**Associate Professor**	**2018 - Now**	**FT**
Chemical Engineering Department, College of Engineering, Mu'tah University, Jordan	**Assistant Professor**	**2005 - 2018**	**FT**
University of Texas at Elpaso, Elpaso, Texas, USA	**Adjunct Professor**	**2004-2005**	**FT**
Chemical Engineering Department, College of Engineering, New Mexico State University (NMSU), USA	**Research Assistant**	**2000 - 2005**	**FT**
Chemical Engineering, College of Engineering, Jordan University of Science and Technology (J.U.S.T), Jordan	**Teaching Assistant**	**1994-1997**	**FT**

NON-ACADEMIC EXPERIENCE			
COMPANY/ENTITY	**RANK/TITLE**	**PERIOD**	**FT/PT**

Prince Faisal Center for Dead Sea, Environment and Energy Research, Mutah University, Karak, Jordan	Director Deputy	2014-2015	FT
Jordan Sulphochemical Company, Zerqa, Jordan	Chemical Engineer	1992-1994	FT

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	
ORGANIZATION	**PERIOD**
Jordan Engineering Association	1992-now

HONORS & AWARDS	
Royal Award	1987-1992
JUST Teaching Assistantship	1994-1997
Award for Applied Sciences for the Year 2000/**The Scientific Foundation of Hashem Adeeb Hijjawi, Amman Jordan**	Dec. 17, 2000
NMSU Teaching Assistantship	1999-2004

SERVICE ACTIVITIES (Within and Outside the Institution)
Chairman of chemical engineering department, Faculty of engineering, Mutah university (2021-till now)
Chairman of chemical engineering department, Faculty of engineering, Mutah university (2010-2013)
Representative of chemical engineering department in the engineering faculty council, Mutah University (2015-2017)
Member of Industrial System Engineering Department Council, Mutah university (2021-till now)

IMPORTANT PUBLICATIONS AND PRESENTATIONS (The Past Five Years)
Aliedeh, M. A. , Salah H. Aljbour, Adnan M. Al-Harahsheh , Kamel Al-Zboon , Sura Al-Harahsheh, (2021) Implementing 2^{4-1} Fractional Factorial Design For Filing The Gaps In Ovat Sorption Studies Of Nitrate Ions Onto Jordanian Zeolitic Tuff , Journal of Chemical Technology and Metallurgy, 56, 2, 2021
Aliedeh, M. A. and Nabeel A. Jarrah (2012) "Application of Full Factorial Design to Optimize Phosphogypsum Beneficiation Process (P2O5 Reduction) By Using Sulfuric and Nitric Acid Solutions" Sixth Jordanian International Chemical Engineering Conference, Amman, Jordan, March 2012.
Aliedeh, M. A. (2018) "Factorial Design Study Of P2O5 Reduction For Jordanian Phosphogypsum Using Sulfuric And Nitric Acids Solutions" Journal of Chemical Technology and Metallurgy, 53, 3, 2018, 437-450.
Aliedeh, M. A. (2018) "Avoiding Being Trapped in False Analogical Modeling of Composite Wall Thermal Resistance" Jordanian Journal of Engineering and Chemical Industries (JJECI), Vol. 1, Issue 2, August 2018.

Aliedeh, M. A. (2019) "Optimizing the Performance of Pilot Vacuum Belt Filter (VBF) for P2O5 Reduction of Jordanian Phosphogypsum (PG)" " Jordanian Journal of Engineering and Chemical Industries (JJECI), Accepted February 24th, 2019.
Aljbour, S. H., Al-Harahsheh, A. M., Aliedeh, M. A., Al-Zboon, K., & Al-Harahsheh, S. (2016). Phosphate removal from aqueous solutions by using natural Jordanian zeolitic tuff. Adsorption Science & Technology, 35(3-4), 284-299
Mohawesh, O., Timothy Coolong, Mohammad Aliedeh, Samer Qaraleh "Greenhouse Evaluation of Biochar to Enhance Soil Properties and Plant Growth Performance Under Arid Environment" Bulgarian Journal of Agricultural Science, 24 (No 6) 2018, 1012–1019.
Aliedeh, M. A. (2018) "Building an Integrative Framework for Transparent Thinking Approach (TTA) Solution: Calling for Collaboration in Putting TTA Factory into Educational Production" Journal of Higher Education Theory and Practice (JHETP), 18(1), 103-140 (2018).
Aliedeh, M. A. (2017) "Tasting the Fruits" of Transparent Thinking Approach (TTA) by Developing and Validating a TTA-Based Solution Concentration Teaching-Learning Sequence (TLS): The "Kick-Off" of TTA Operationalization Phase" Journal of Higher Education Theory and Practice (JHETP), 17(3), 11-44 (2017).
Mousa K. Abu-Arabi, Asem M. Al-Jarrah, M. A., Aliedeh, and A. Tamimi "Physical Solubility and Diffusivity of CO2 in Aqueous Diethanolamine Solutions" Journal of Chemical and Engineering Data. Accepted Dec. 15, 2000.

MOST RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES
Aliedeh, M. A., developed over a long educational and academic experience a new innovative approach that is called Transparent Thinking Approach (TTA) **(Aliedeh, M. A., 2015a, b, c, 2016, 2017 and 2018).** TTA **is a new innovative educational reform approach that aims to affect a change in thinking styles of learners and teachers while seeking to enhance their learning and teaching skills.** TTA **conceptual framework is built out of a core that can be extended and expanded to accommodate wide spectrum of content knowledge and skills in almost all field and domains. In addition,** TTA **can be easily diffused locally, nationally and internationally.**
WISE 2021 "Discuss it" Session that is entitled "Transparent Thinking Approach (TTA) Solution Factory as an Incubator for Educational Reform", Qatar Foundation, WISE Platform, Dec. 2021
Transparent Learning Workshop, Creativity Club, Karak, Jordan (March 2016)
Transparent Thinking Approach (TTA) Seminar, Tafelah University, Jordan (March 2015)
Transparent Thinking Approach (TTA) Seminar, Tafelah University, Jordan (March 2015)
Transparent Thinking Approach (TTA) Seminar, Tafelah University, Jordan (November 2015)
Transparent Thinking Approach (TTA) Seminar, Mutah University, Jordan (April 2016)