

Dr. Tawfiq A. Al Mughanam

Associate Professor



Personal Data:

Nationality | Saudi

Date of Hire | August 2014

Date Rank Obtained | Assistant Professor

Department | Mechanical Engineering

Email | talmughanam@kfu.edu.sa

Office No | 1078

Office Phone No | +966-13-589-5434

Education:

Academic Degree	Major	Specialty	Place of Issue	Address	Date
Doctorate (Ph.D.)	Mechanical Engineering	ThermalFluids Science	University of Leeds	Leeds, United Kingdom	2013
Masters (M.Sc.)	Mechanical Engineering	ThermalFluids Science	Old Dominion University	Norfolk, VA, USA	2005
Bachelor (B.Sc.)	Mechanical Engineering	Mechanical Engineering	King Fahd University of Petroleum and Minerals	Dhahran, Saudi Arabia	1999

Ph.D., Master or Fellowship Research Title: (Academic Honors or Distinctions):

Ph.D. Dissertation	Fundamental characterisation of the flame propagation of synthetic fuels
Master Thesis	Effect of Ramp Side angle in Supersonic Combustion and Mixing

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	Mechanical Engineering Department, College of Engineering, King Faisal University	Saudi Arabia	From	Aug 2014
			To	Present
Chair, Department of Mechanical Engineering	Mechanical Engineering Department, College of Engineering, King Faisal University	Saudi Arabia	From	Aug 2018
			To	Aug 2019
Dean, College of Engineering	College of Engineering, King Faisal University	Saudi Arabia	From	Feb 2016
			To	May 2018
Vice-Dean, College of Engineering	College of Engineering, King Faisal University	Saudi Arabia	From	Oct 2014
			To	Feb 2016

Research Interests:

1. Combustion
2. Thermofluids

Publications:

No.	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Silaipillayarputhur, K., Al-mughanam, T.	Performance of pure crossflow heat exchanger in sensible heat transfer application	Energies, 2021	Click Here
2	El-Sinawi, A., Silaipillayarputhur, K., Al-Mughanam, T., Hardacre, C.	Performance of ionic liquid-water mixtures in an acetone cooling application	Sustainability, 2021	Click Here
3	Al-Mughanam, T., Aldhyani, T.H.H., Alsubari, B., Al-Yaari, M.	Modeling of compressive strength of sustainable self-compacting concrete incorporating treated palm oil fuel ash using artificial neural network	Sustainability, 2020	Click Here
4	Silaipillayarputhur, K., Khurshid, H., Al Mughanam, T., Almudhafar, A., Al Fozan, A.	Design of a geothermal heating system	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	Click Here
5	Silaipillayarputhur, K., Khurshid, H., Al Mughanam, T., Boudy, A., Allubly, I.	Design of summer air-conditioning system	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	Click Here
6	Khurshid, H., Silaipillayarputhur, K., Al Mughanam, T.	Design of a Heat Sink for an Electronic Component in ABB Drive using Different Types of Fins	MATEC Web of Conferences, 2018, 249, 03009	Click Here
7	Al Mughanam, T.	Operational Flammability Limits of Commercial Fuels - A Review	MATEC Web of Conferences, 2018, 249, 03013	Click Here
8	Silaipillayarputhur, K., Al Mughanam, T.	Performance charts for multi-pass parallel cross-flow heat exchangers	International Journal of Mechanical Engineering and Robotics Research, 2018	Click Here
9	Silaipillayarputhur, K., Al Mughanam, T., Al Mojil, A., Al Dhmoush, M.	Analytical and Numerical Design Analysis of Concentric Tube Heat Exchangers - A Review	IOP Conference Series: Materials Science and Engineering, 2017, 272(1), 012006	Click Here

10	Silaipillayarputhur, K., Al-Mughanam, T., Al-Niniya, A.I.	Sensible performance analysis of multi-pass cross flow heat exchangers	MATEC Web of Conferences, 2017, 108, 11002	Click Here
11	Silaipillayarputhur, K., Al Mughanam, T., Al Abdul Qader, A.A.H., Al Saikhan, M.M.E., Al Abdulwahed, A.A.	Design of a hot oil heat exchanger system	International Journal of Applied Engineering Research, 2016	Click Here

Language Proficiency:

1. Arabic
2. English

Research IDs:

Orcid ID: <https://orcid.org/0000-0002-9768-7800>

Scopus Author ID: 57194083410

Google Scholar: <https://scholar.google.com/citations?user=flTyxi4AAAAJ&hl=en&oi=ao>