

Dr. Mohammed Al-Shakhs

Assistant Professor



Personal Data:

Nationality | Saudi
Date of Hire | 15 May, 2022
Date Rank Obtained | Jan 2021
Department | Electrical Engineering
Email | malshakhs@kfu.edu.sa
Office No | 2125
Office Phone No | 0135897297

Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Electromagnetics	The University of British Columbia	Canada	Sep 2017
Masters (M.Sc.)	Electrical Engineering	Power System Planning	Dalhousie University	Canada	Apr 2011
Bachelor (B.Sc.)	Electrical Engineering	Power	King Fahd University of Petroleum and Minerals	Saudi Arabia	Jun 2004

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Engineering Optical Properties Using Layered Metamaterials
Master	Power System Planning Using Innovations-based Neural Network

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	Alasala Colleges	Saudi Arabia	From	Jan 2021
			To	Aug 2021
Lecturer	The University of British Columbia	Canada	From	Jan 2020
			To	Jun 2020

Research Interests:

1. Optical Sensors
2. Thin film applications
3. Electromagnetic Wave Modeling
4. Photonic Integrated Circuits
5. Numerical and Neural Network Methods

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Al Shakhs M., Augusto L., Markley L., & Chau K. J.	Boosting the Transparency of Thin Layers by Coatings of Opposing Susceptibility: How Metals Help See Through Dielectrics.	Scientific Reports 2016	https://www.nature.com/articles/srep20659
2	Al Shakhs M., Ott P., & Chau K. J.	Band diagrams of layered plasmonic metamaterials.	Journal of Applied Physics 2014	https://aip.scitation.org/doi/10.1063/1.4900532
3	Ott P., Al Shakhs M., Lezec H. J., & Chau K. J.	Flat lens criterion by small-angle phase.	Optics Express 2014	https://opg.optica.org/oe/abstract.cfm?uri=oe-22-24-29340
4	Chau K. J., Al Shakhs M., & Ott P.	Fourier-Domain Electromagnetic Wave Theory for Layered Metamaterials of Finite Extent.	Progress In Electromagnetics Research 2014	https://www.researchgate.net/publication/260557892_Fourier-Domain_Electromagnetic_Wave_Theory_for_Layered_Metamaterials_of_Finite_Extent
5	Al-Shakhs M., El-Hawary M.	Innovations-based Neural Network Seasonal Day-ahead Marginal Price Forecasting.	Electric Power Components and Systems 2015	https://www.tandfonline.com/doi/abs/10.1080/15325008.2014.995279

Language Proficiency:

1. Arabic
2. English