

Dr. Muhammad Iftikhar

Assistant Professor

Personal Data:

Nationality | Pakistani
Date of Hire | August 2020
Date Rank Obtained | August 2013
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical Engineering	Materials and Manufacturing	TU Delft, Netherlands	Delft	2004
Masters (M.Sc.)	Mechanical Engineering	Manufacturing	UET Lahore, Pakistan	Lahore	2006
Bachelor (B.Sc.)	Mechanical Engineering	-	UET Taxila, Pakistan	Taxila	2013

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

PhD	Structure property relationship of thermoset nanocomposites
Master	Developing, implementing and evaluating CIM system

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	King Faisal University	KSA	From	08/2020
			To	To date
Assistant Professor	Institute of Space Technology	Pakistan	From	07/2013
			To	08/2020
Research Associate	TU Delft	Netherlands	From	09/2009
			To	06/2013

Research Interests:

1. Polymer composites
2. Nanocomposites
3. Machining of advanced materials
4. Mechanics of Materials
5. Renewable energy applications

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Khan, M.A.; Jaffery, S.H.I.; Khan, M.A.; Faraz, M.I.; Mufti, S.	Multi-Objective Optimization of Micro-Milling Titanium Alloy Ti-3Al-2.5V (Grade 9) Using Taguchi-Grey Relation Integrated Approach	MDPI, July 2023	https://www.mdpi.com/2075-4701/13/8/1373
2	Faraz, M.I.; Amin, M.N.; Nafees, A.; Niaz, A.; Althoey, F.	A comprehensive GEP and MEP analysis of a cement-based concrete containing metakaolin	Elsevier, April 2023	https://doi.org/10.1016/j.istruc.2023.04.050
3	Al-Hashem, M.N.; Amin, M.N.; Ajwad, A.; Afzal, M.; Khan, K.; Faraz, M.I.; Qadir, M.G.; Khan, H.	Mechanical and Durability Evaluation of Metakaolin as Cement Replacement Material in Concrete	MDPI, November 2022	https://www.mdpi.com/1996-1944/15/22/7868
4	Alkadhim, H.A.; Amin, M.N.; Ahmad, W.; Khan, K.; Nazar, S.; Faraz, M.I.; Imran, M.	Evaluating the Strength and Impact of Raw Ingredients of Cement Mortar Incorporating Waste Glass Powder Using Machine Learning and SHapley Additive ExPlanations (SHAP) Methods	MDPI, October 2022	https://www.mdpi.com/1996-1944/15/20/7344
5	Niaz, A.; Al Fuhaid, A.F.; Faraz, M.I.	Understanding Corrosion Degradation Processes of a Multi-Component CoNiCrAlY-Coating System	MDPI, September 2022	https://www.mdpi.com/2079-6412/12/10/1396

6	Amin, M.N.; Iqbal, M.; Ashfaq, M.; Salami, B.A.; Khan, K.; Faraz, M.I.; Alabdullah, A.A.; Jalal, F.E.	Prediction of Strength and CBR Characteristics of Chemically Stabilized Coal Gangue: ANN and Random Forest Tree Approach	MDPI, June 2022	https://www.mdpi.com/1996-1944/15/12/4330
7	Amin, M.N.; Ahmad, A.; Khan, K.; Ahmad, W.; Nazar, S.; Faraz, M.I.; Alabdullah, A.A.	Split Tensile Strength Prediction of Recycled Aggregate- Based Sustainable Concrete Using Artificial Intelligence Methods	MDPI, June 2022	https://www.mdpi.com/1996-1944/15/12/4296
8	Amin, M.N.; Khan, K.; Javed, M.F.; Ewais, D.Y.Z.; Qadir, M.G.; Faraz, M.I.; Alam, M.W.; Alabdullah, A.A.; Imran, M.	Forecasting Compressive Strength of RHA Based Concrete Using Multi-Expression Programming	MDPI, May 2022	https://www.mdpi.com/1996-1944/15/11/3808
9	Amin, M.N.; Khan, K.; Javed, M.F.; Aslam, F.; Qadir, M.G.; Faraz, M.I.	Prediction of Mechanical Properties of Fly- Ash/Slag-Based Geopolymer Concrete Using Ensemble and Non-Ensemble Machine-Learning Techniques	MDPI, May 2022	https://www.mdpi.com/1996-1944/15/10/3478
10	Khan, K.; Ishfaq, M.; Amin, M.N.; Shahzada, K.; Wahab, N.; Faraz, M.I.	Evaluation of Mechanical and Microstructural Properties and Global Warming Potential of Green Concrete with Wheat Straw Ash and Silica Fume	MDPI, April 2022	https://www.mdpi.com/1996-1944/15/9/3177

11	Amin, M.N.; Khan, K.; Ahmad, W.; Javed, M.F.; Qureshi, H.J.; Saleem, M.U.; Qadir, M.G.; Faraz, M.I.	Compressive Strength Estimation of Geopolymer Composites through Novel Computational Approaches	MDPI, March 2022	https://www.mdpi.com/2073-4360/14/10/2128
12	Faraz, M.I.	Rheology of Organoclay Dispersions and Modeling of Gelation Behavior and Finding Overlap Concentration	Springer, June 2019	https://doi.org/10.1007/s13369-019-03960-1
13	Faraz, M.I.; Besseling, N.A.M.; Korobko, A.V; Picken, S.J.	Characterization and Modeling of Creep Behavior of a Thermoset Nanocomposite	Wiley, 2015	https://doi.org/10.1002/pc.22946

Language Proficiency:

1. English
2. Urdu
3. Punjabi