

## 1- Personal Details

**Name** : Hani Alanazi  
**Date of Birth** : 02/07/1985  
**Nationality** : Saudi  
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## 2- Area of specialization:

<b>Major</b>	Civil Engineering
<b>Minor</b>	Structural and Materials Engineering

## 3- Education & Qualifications

Date	Degree	University name	Country	Title of the Dissertation
2009	Bachelor	King Saud University	Saudi Arabia	Civil engineering
2015	Master	North Dakota State University	United States	Explore Accelerated PCC Pavement Repairs Using Metakaolin-Based Geopolymer Concrete
2019	Ph.D.	University of Nebraska-Lincoln	United States	Investigation of Sulfate-Driven Deterioration in Cementitious Binding Materials Using Microstructural, Nanomechanical, and Chemical Characterization

## 4- Professional Activities:

Job Title	Place	Country	From	To
Assistant Professor	Majmaah University	Saudi Arabia	2019	Till now
Ph.D. student and Research assistant	University of Nebraska-Lincoln	United States	2015	2019
Master student and Research assistant	North Dakota State University	United States	2013	2014
Teaching assistant	Majmaah University	Saudi Arabia	2010	2011
Structural and site engineer	Mohammed M. Al Rashid for Trading and Contracting Co. Ltd. - MARCO	Saudi Arabia	2009	2011

## 5- Teaching Experiences

#	Teaching Experiences	University	From	To
1	Properties of Materials and Building Construction	Majmaah University	2019	Till now
2	Instructed tutorial for Engineering Mechanics (Statics) and Statistics and Probability	Majmaah University	2010	2011

## 6- Areas of Specialization

#	Areas of Specialization
1	Multiscale analysis of construction materials
2	Physical and chemical processes involved in durability issues
3	Geopolymer concrete and High-performance concrete
4	Concrete with recycled materials

## **7- Current membership in professional organizations**

#	Membership	ID
1	Saudi Council of Engineers	634724
2	American Concrete Institute	1274346

## **8- Publications (most important publications in the last 5 Years)**

#	Publications / Presentations	Journal (Conference)	Publishing Year (Conference Date)
1	Chemo-mechanical properties of synthesized tricalcium silicate	Advances in Materials and Pavement Prediction	2020
2	Microstructural Characterization of Fly Ash-based Geopolymer Exposed to Sulfate Attack	ASCE-EMI Annual Conference	2020
3	Effect of slag, silica fume, and metakaolin on properties and performance of alkali-activated fly ash cured at ambient temperature	Construction and Building Materials	2019
4	Investigation of Sulfate-driven Deterioration in Hardened Cement Paste Using Integrated Microstructural-Nanomechanical-Chemical Characterization	ASCE-EMI Annual Conference	2019
5	Effects of Na <sub>2</sub> O/SiO <sub>2</sub> molar ratio on properties of aggregate-paste interphase in fly ash-based geopolymer mixtures through multiscale measurements	Construction and Building Materials	2018
6	Fresh, Early Age, Mechanical Properties and Permeability of Alkali-Activated Fly Ash Incorporating Cementitious Additives	TRB	2018
7	Two-way linked multiscale method integrated with nanomechanical tests and cohesive zone fracture to model highly heterogeneous binding materials	Journal of Engineering Mechanics	2018
8	An integrated microstructural-nanomechanical-chemical approach to examine material-specific characteristics of cementitious interphase regions	Materials Characterization	2018
9	Nanomechanical Properties of Interphase Zone in Fly Ash-based cementitious Concrete Mixture	Proceeding of the 2017 MAIREINFRA	2017
10	Early strength and durability of metakaolin-based geopolymer concrete	Magazine of Concrete Research	2017
11	Microstructure and Nanomechanical Properties of the Interfacial Transition Zone in Fly Ash-based Geopolymer Concrete	International Conference on Maintenance and Rehabilitation of Constructed Infrastructure Facilities	2017
12	Microstructure Characteristics, Nanomechanical Properties, and Chemical Mapping of Interphase Region in Cementitious Mixtures	ASCE-EMI Annual Conference	2017
13	Bond strength of PCC pavement repairs using metakaolin-based geopolymer mortar	Cement and Concrete Composites	2016
14	Microstructure and Nanomechanical Properties of the Interfacial Transition Zone in Geopolymer Concrete with Different Molar Ratios of SiO <sub>2</sub> /Na <sub>2</sub> O of Alkaline Activator	ASCE-EMI Annual Conference	2016

## **9- MAJOR RESEARCH PROJECTS**

#	Research Project	Status (Now/Finished)	Funded by
1	None	None	None