

Brief Curriculum Vitae

Of

M. Iqbal Khan, Ph.D.

Personal Information

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Brief Profile

Dr. Mohammad Iqbal Khan is a Professor in Structural Engineering, Department of Civil Engineering and Managing Director of Center of Excellence for Concrete Research and Testing, at King Saud University, Saudi Arabia. He is formerly Assistant Professor of Structural Engineering, School of Civil Engineering, University of Nottingham, UK. He received his PhD degree from the University of Sheffield, UK in 1998. He has vast teaching and research experience at highly reputed universities. During his career he taught more than dozen different undergraduate and graduate courses on subjects related to structural engineering. He is actively engaged in a broad spectrum of structural/materials engineering research areas. His primary research interests are in fiber reinforced concrete, strain hardened composites, repair and strengthening, nanostructure and microstructure of cement and concrete and prediction modeling.

Dr. Khan has served as principal investigator or co-investigator on numerous research projects in Saudi Arabia and in the UK. Dr. Khan has edited/co-edited 2 volumes, authored/co-authored 2 books, published over 150 technical papers, holds 15 international patents and had supervised over 25 MS and PhD theses. Dr. Khan got 4 gold and 2 silver medals for his inventions at International level. Over the years, he is recipient of 8 Excellence and Distinguished awards by King Saud University. Dr. Khan serves as editor/associate editor of 4 international journals. He has delivered over 30 invited lectures/seminars, over 25 conference lectures in various countries including USA, UK, Canada, Japan, Germany, France, Singapore, Malaysia, Netherlands, Hong Kong, China, UAE, Oman, Kuwait, Sweden, South Africa. Dr. Khan is visiting faculty of 4 universities (USA, Canada, Germany and China). Dr. Khan has carried out numerous concrete materials and structure research and consultancy jobs, in the UK and in Saudi Arabia, independently and as well as a team member. He has served over 20 international conferences as technical committee member and is a regular reviewer for over 15 highly reputed international journals. He reviewed over 10 major research proposals nationally and internationally. He is member of numerous international professional bodies including American Concrete Institute, American Society of Civil Engineering, American Concrete Institute, America Society of Testing and Materials and *RILEM* (France).

Dr. Khan is involved in Accreditation and Quality Assurance in engineering education and has been actively Accredited Board for Engineering and Technology (ABET) and NCAAA. He has delivered over 30 workshops/lectures on accreditation related topics. He served as a member for numerous national level committees including the committee for the development of highly competitive engineering colleges, member of engineering research team to develop academic framework for engineering education, committee for

qualifying exit exams, and fundamental engineering exams for engineers in Saudi Arabia. Dr. Khan has authored/co-authored numerous academic instruction manuals for engineering graduate exit and qualifying exams for engineers in Saudi Arabia. He published 3 accreditation related research papers. He is approved examiner for American Concrete Institute (ACI) Certification program, and conducted numerous certifications programs for practicing engineers working in major projects in Saudi Arabia including at Haram Extension Projects at Holy cities of Makkah and Medinah.

Educational Qualifications

PhD: University of Sheffield, Sheffield, UK

Current position

Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia

Formerly, Assistant Professor, School of Civil Engineering, University of Nottingham, UK

Current Administrative Positions

- **Managing Director**, Center of Excellence for Concrete Research and Testing (CoE-CRT), College of Engineering, KSU. Since February 2008.
- **Founding and Establishing Member**, CoE-CRT, College of Engineering, KSU. Since Sept. 2007
- **Manager**, Laboratories of Structural Engineering Division, Department of Civil Engineering, College of Engineering, KSU. Since January 2007.

Research Interests

- Fiber Reinforced Concrete
- Strain Hardened Cementitious Matrix
- Nanostructure and Microstructure of Cement and Concrete
- Environmental issues: Use of Supplementary Cementitious Materials
- High performance and high Strength Concrete
- Repair of Concrete Structures, Composite Materials
- Durability and Sustainability
- Self-Compacting Concrete
- Application of Artificial Neural Networks
- Prediction Modeling

Editorial Board/Editors of Journals

- Associate Editor of *Journal of King Saud University- Engineering Sciences*. Elsevier
<http://www.journals.elsevier.com/journal-of-king-saud-university-engineering-sciences/editorial-board/>
- Editor of *MoJ Civil Engineering*, MedCrave Group, USA
<http://medcraveonline.com/MOJCE/editorial-board>

- Associate Editor of *Journal of Frontiers in Materials* - Structural Materials. Frontiers, Lausanne, Switzerland.
- Associate Editor of *Journal of Frontiers in Built Environment* - Structural Materials. Frontiers, Lausanne, Switzerland.
http://www.frontiersin.org/Structural_Materials/editorialboard#

Visiting faculty

- Missouri University of Science and Technology, USA (<http://care.mst.edu/>)
- University of British Columbia, Canada (<http://www.civil.ubc.ca/>)
- Technical University, Dresden, Germany (<https://tu-dresden.de/bu/bauingenieurwesen>)
- Southeast University, Nanjing, China (<http://www.seu.edu.cn/english/246/list.htm>)

Teaching Experience

Courses taught at King Saud University

UG Level: i) Statics; ii) Structural Analysis; iii) Mechanics of Materials; iv) Reinforced Concrete Design; v) Theory of Structures for Architecture; vi) Statics and Dynamics for Computer Science Students; vii) Capstone/Integrated Design Projects

MSc Level: i) MS Thesis supervision; ii) Prestressed Concrete Structures; iii) Advanced Concrete Technology; iv) Selected Topics in Structural Engineering; v) Engineering Analysis

PhD Level: i) PhD Thesis supervision; ii) High Performance Concrete; iii) Composite and Fiber Reinforced Concrete; iv) Experimental Methods in Structural Engineering; v) Repair and Rehabilitation of Concrete Structures

Previously Courses Taught (in the UK)

Courses taught at the University of Nottingham, UK

UG level: i) Concrete Structures Design; ii) Structural Analysis; iii) Mechanics; iv) COMPACT

COMPACT (**COMP**uter **A**ided **C**oncrete **T**eaching) which includes RC Design, Prestressed Concrete, Materials, Conceptual Design etc. COMPACT package is the latest teaching method being used in some British Universities. COMPACT is part of the Teaching and Learning Technology Programme (TLTP) of higher education in the UK.

MSc level: i) Prestressed Concrete Design; ii) Advanced Concrete Technology

Courses taught at the University of Sheffield, UK

UG level: i) Concrete Structures; ii) Advanced Concrete Technology; ii) Civil Engineering Mechanics; iii) Civil Engineering Design and Communication

Academic Supervision

Current PhD thesis Supervision:

- Title: Development of high-durability and high-ductility concrete using ultrafines and fibers under hot local environmental conditions
Student: Wasim Abbas, King Saud University
Supervisors: M.I. Khan and A. Charif
- Title: Improving Construction Sustainability by Producing Sustainable Recycled Plastic Aggregate
Student: Fahad AlGahtani;
Supervisors: G. Ghataora and M.I. Khan
(Student registered at the University of Birmingham)
Joint project between University of Birmingham / King Saud University)
- Title: Characterization and Targeted Modifications of the Rheological Properties of Fresh Concrete for Improving its Pumpability
Student: Egor Secrieru
(Student registered at Technische Universität Dresden, Germany)
Joint project between Technische Universität Dresden / King Saud University)

Completed supervisions

PhD:	7 students
MSc:	20 students
Graduation project:	More than 100 students

Awards/Scholarships

International Level:

- Silver Medal, 44th International Exhibition of Inventions of Geneva, Switzerland, April 2016.
- Gold Medal, 40th International Exhibition of Inventions of Geneva, Switzerland, April 2012.
- The Best Invention Award, 11th Invention and Inventions Awards, Malaysia, February 2012.
- Gold Medal, 11th Invention and Inventions Awards, Malaysia, February 2012.
- Silver Medal, Kuwait International Inventions Fair, Kuwait, November 2011.
- Gold Medal, 39th International Exhibition of Inventions of Geneva, Switzerland, April 2011.
- Gold Medal, 10th Invention and Inventions Awards, Malaysia, February 2011.
- Publication Award: M.I. Khan, "Permeation of High Performance Concrete" Journal of Materials in Civil Engineering, ASCE, USA, Vol. 15, No. 1, 2003. Award designated paper.
- Association of Commonwealth Universities Scholarship for PhD in the UK, 1995-98.

National Level:

- First Position Award for Scientific Publications, Faculty of Engineering Research Excellence Award for the Academic year 2016-17, May 2017.
- King Saud University Rector Medal for Patent Registration, December 2015, Riyadh.
- KSU Excellence and Distinguished for Discoveries, Innovations and Technology Licensing Award- (for the Academic year 2013-14), May 2014.
- KSU Excellence and Distinguished Award for Scientific Research (for the Academic year 2011-12), by Governor of Riyadh Prince Sattam bin Abdulaziz, May 2012.
- 2nd Position Award for Scientific Publications, Faculty of Engineering Research Excellence Award (for the Academic year 2011-12), May 2012.

- KSU Excellence and Distinguished Award for Scientific Research (for the Academic year 2010-11), by Prince Naif bin Abdulaziz, Deputy Premier, February 2011.
- 3rd Position Award for Scientific Publications, Faculty of Engineering Research Excellence Award (for the Academic year 2010-11), May 2011.
- King Saud University Rector Medal for Patent Registration, December 2010, Riyadh.
- The National Titanium Dioxide Company Recognition Medal, December 2010, Riyadh.
- Quality Improvement Program Scholarship for pursuing Master of Technology at IIT Delhi, 1989-91.

National and International Leadership

- Member of Technical Committee for Application of super absorbent polymers in concrete construction - Technical Committee 225-SAP
- **Conferences:** On 20 international conference technical committees since 2010.
- **Review Activities:** Regular reviewer for over 15 international journals; Reviewer of international conference papers
- **University Service:** On several Departmental, Faculty and University committees (some in the role as chair) including local and ABET Accreditation, Quality and Development, Lab and Equipment Procurement,

Membership of Professional Organizations

- Member of International Assoc for Continuing Engineering Education (USA)
- Member of American Society of Civil Engineers (USA)
- Member of Institute of Structural Engineers (USA)
- Member of RILEM (France)
- Member of International Association of Continuing Engineering Education (USA)
- Member of Association of University Teachers (UK)
- Member of Concrete Society (UK)
- Member of Institute of Materials (UK)

Funded Research Projects

- **M.I. Khan** (Principal Investigator), G. Fares & M.A. Yassir, Development of Sustainable, Ultra High Performance Hybrid Fiber Reinforced Cementitious Composites Utilizing Locally Available Materials for Applications in Harsh Saudi Arabian Environment, Funded by King Abdulaziz City of Science & Technology (KACST), Riyadh, 2015-2017. In progress.
- **M.I. Khan** (Principal Investigator) & S. Mourad, Flexural Behavior of Strain Hardening Cementitious Composites in Structural and Rehabilitation Applications, Funded by KACST, Riyadh, 2015-2017. In progress.
- **M.I. Khan** (Principal Investigator), S.M. Mourad & V. Mechtcherine, Development of Strain-Hardening Cement-Based Composites with Short Polymer Fibers for Hot-Weather Concreting Utilizing Local Materials, Funded by KACST, Riyadh, 2013-2015. Completed.
- Effectiveness of an Optimized EAFD/Accelerator Combination to Overcome the Excessive Set-retardation of Concrete Incorporating EAFD, (A.I. Al-Negheimish, A.M.

Alhozaimy, **M.I. Khan** & G. Fares), Funded by Saudi Arabia Basic Industries Corporation (SABIC), Riyadh, 2015-2016. Completed.

- Utilization of Self-Compacting Concrete (SCC) to Improve the Quality and Durability of Concrete Construction in the Kingdom (A.I. Al-Negheimish, A.M. Alhozaimy, **M.I. Khan** & R.Z. Al-Zaid), Funded by KACST, Riyadh, 2010-2013. Completed.
- Effects of using Retarding Admixtures on the Performance of Concrete in Hot Weather (A.I. Al-Negheimish, A.M. Alhozaimy, R.Z. Al-Zaid & **M.I. Khan**), Funded by KACST, Riyadh, 2010-2012. Completed.
- Electric Arc Furnace Dust (EAFD): From Waste By-product to Valuable Cementitious Material (R.Z. Al-Zaid, A.I. Al-Negheimish, A.M. Alhozaimy & **M.I. Khan**), Funded by KACST, Riyadh, 2009-2011. Completed.
- Utilization of Ti By-Product Material as Partial Cement Replacement for the Production of Environmental Friendly and Economical Concrete, Phase-III (T.H. Almusallam, **M.I. Khan**, Y.S. Al-Sugayer and W.A. Almasy), King Saud University, Riyadh, 2008-2012. Completed.
- S.H. Alsayed, Y.A. Al-Salloum, T.H. Almusallam and **M.I. Khan**, "Establishment of Performance Criteria Guidelines for Selecting the Repair Materials". King Saud University, Riyadh, 2008-2010. Completed.
- T.H. Almusallam, **M.I. Khan**, Y.S. Al-Sugayer and W.A. Almasy, "Utilization of Ti By-Product Material as Partial Cement Replacement for the Production of Environmental Friendly and Economical Concrete, Phase-III", King Saud University, Riyadh, 2008-2010. Completed.
- S.H. Alsayed, Y.A. Al-Salloum, T.H. Almusallam and **M.I. Khan**, "Classification and Testing Performance of Concrete Repair Materials for Durable Repair Under Local Environmental Conditions". Funded by Deanship Scientific Research, KSU. Completed.
- **M.I. Khan**, "Investigation on Polymer-modified Cement Matrix and its Optimization using Artificial Neural Networks" Funded by SABIC, Riyadh, 2006. Project No.: 27/427. Completed.
- T.H. Almusallam, **M.I. Khan**, Y.S. Al-Sugayer and W.A. Almasy, "Laboratory Testing and Investigation of Ti-byproduct Material for Safe Environment Reuse as a Composite Cementing Materials - Phase-II", College of Engineering, King Saud University, Riyadh, 2006-08. Completed.
- **M.I. Khan**, "Investigation of Ti-waste Material for Safe Environmental Reuse as a Composite Cementing Materials", Funded by Research Centre, College of Engineering, King Saud University, Riyadh, 2006. Project No.: 64/427. Completed.
- T.H. Almusallam, **M.I. Khan**, Y.S. Al-Sugayer and W.A. Almasy, "Laboratory Testing and Investigation of Ti-byproduct Material for Safe Environment Reuse as a Composite Cementing Materials Phase-I", College of Engineering, King Saud University, Riyadh, 2005-06. Completed.
- **M.I. Khan**, "Properties of High Performance Concrete", Funded by Research Centre, College of Engineering, King Saud University, Riyadh, 2002. Project No.: 12/423. Completed.
- **M.I. Khan**, and A. Alhozaimy, "Performance of Concrete Utilizing the Natural Pozzolanic Material Available in the Kingdom of Saudi Arabia" Funded by SABIC, Riyadh, 2002. Project No.: 33/423. Completed.
- **M.I. Khan**, "High Performance-Low Environmental Impact Concrete", University of Nottingham, UK, 2000.

- **M.I. Khan**, and B.S. Choo, “Development of Mix Proportioning Methodology for High Performance Concrete Incorporating Pozzolanic Materials”, Univ. of Nottingham, UK, 2000.
- B.S. Choo and **M.I. Khan**, “Mix Design Software for High Performance Concrete Incorporating GGBS”, Appleby Group (GGBS producers), 2000.
- P.S. Mangat, F.J. O’Flaherty and **M.I. Khan**, “Long Term Performance of Concrete Repair in Highway Structures”, Funded by Highways Agency, UK, 1999.
- **M.I. Khan**, “Assessment of Continuous Concrete Mixers”, IDC Mixers Limited, UK, 1998
- C.J. Lynsdale and **M.I. Khan**, “Evaluation of Superplasticizer”, Dow Europe S A, Switzerland, 1997.

Patents

Granted Patents

1. United States Patent, Patent number: US 9,399,599 B1; July 26, 2016. Title: “Strain-Hardening Cementitious Composite”. Inventors: **M. Iqbal Khan**, Galal Fares, Shehab Mourad and Wasim Abbass.
2. United States Patent, Patent number: US 9,423,326 B1; August 23, 2016. Title: “Method for Obtaining Simulated Pore Water”. Inventors: Galal Fares and **M.Iqbal Khan**.
3. United States Patent, Patent number: US 9,341,558 B1; May 17, 2016. Title: “System and method for measuring permeation properties of concrete and porous materials”. Inventor: **M.Iqbal Khan**.
4. United States Patent, Patent number US 9,290,415 B1; March 22, 2016. Title: “Fire Resistant Cementitious Composite and Method of Making the Same”. Inventors: **M. Iqbal Khan**, Galal Fares and Shehab Mourad.
5. United States Patent, Patent number US 9,187,371 B2, November 17, 2015. Title: “Supplementary Cementitious Material and Method for Disposing of Electric-Arc Furnace Dust (EAFD)”. Inventors: G. Fares, R.Z. Al-Zaid, A.M. Alhozaimy, A.I. Al-Negheimish and **M.Iqbal Khan**.
6. United States Patent, Patent number US 8,921,463 B1, December 31, 2014. Title: “Synthetic Aggregate for use in Concrete”. Inventors: Fahad K. Algahtani, **M. Iqbal Khan** and G. Ghataora.
7. Australian Patents Office, Publication Number: 2010328360, May 14, 2015. Title: “Chloride ingress-resistant concrete and Articles Formed Therewith”. Inventors: Fadi M. Trabzuni, **M. Iqbal Khan**, Waheed A. Al-Masry, Tarek H. Almusallam, Yousef S. Al-Zeghayer.
8. Australian Patents Office, Publication Number: 2015201942, December 10, 2015. Title: “Chloride ingress-resistant concrete and Articles Formed Therewith”. Inventors: Fadi M. Trabzuni, **M. Iqbal Khan**, Waheed A. Al-Masry, Tarek H. Almusallam, Yousef S. Al-Zeghayer.
9. United States Patent, Patent number: 8,256,268; September 4, 2012. Title: “System and method for measuring porosity of high strength and high performance concrete using a vacuum-pressure saturation method”. Inventor: **M.I. Khan**.
10. United States Patent, Patent number: 7,717,999; May 18, 2010. Title: “Titanium production waste byproducts as partial cement replacement”. Inventors: Tarek H. Almusallam, **M. Iqbal Khan**, Waheed Atia Al-Masry, Yousef S. Al-Zeghayer, Fadi M. Trabzuni.
11. United States Patent, Patent number: 7,824,322; November 2, 2010. Title: “Titanium production waste byproducts as partial cement replacement”. Inventors:

Tarek H. Almusallam, **M. Iqbal Khan**, Waheed Atia Al-Masry, Yousef S. Al-Zeghayer, Fadi M. Trabzuni.

Pending Patents

1. United States Patent, title: "EAFD stabilizer for returned concrete and mixer drum wash water" Publication Number: US2012/0049399 A1, March 1, 2012. (Inventors: Rajeh Z. Al-Zaid, Abdulaziz I. Al-Negheimish, Abdulrahman M. Alhozaimy and **M. Iqbal Khan**).
2. United States Patent, title: "Chloride ingress-resistant concrete" Publication Number: US2011/0135919 A1, June 9, 2011. (Inventors: Fadi M. Trabzuni, **M. Iqbal Khan**, Waheed A. Al-Masry, Tarek H. Almusallam, Yousef S. Al-Zeghayer).
3. European Patent, title: "Chloride ingress-resistant concrete" Publication Number: EP 2509925 A2, Dec 7, 2010. (Inventors: Fadi Mohamed Trabzuni, **M. Iqbal Khan**, Waheed A. Al-Masry, Tarek H. Almusallam, Yousef S. Al-Zeghayer).
4. United States Patent, title: "Natural Pozzolan (NP): A New Essential Ingredient for Improving the Strain Hardening Properties in the Engineered Cementitious Composites (NPECC) on Long-Term Performance" Under registration, September 2017. **M. Iqbal Khan** and Galal Fares

Publications

Books

1. R. Siddique and **M.I. Khan**, "*Supplementary Cementing Materials*", First Edition, Springer, Germany, March 2011, XV, 350 pp. (ISBN 978-3-642-17865-8).
<http://www.springer.com/materials/structural+materials/book/978-3-642-17865-8>
2. **M.I. Khan** and N. Siddique, "*Statics for Engineers*", Springer, Germany, March 2012. In preparation, to be published in January 2018.
3. **M.I. Khan**, "*Mechanism of Concrete Deterioration*", Publisher: Springer, Germany. To be published in 2018.

Book Chapters

- **M.I. Khan**, "*Application of artificial neural network for dimensional stability of repair materials under local hot weather*", in Computational Methods and Experimental Measurements, Edited By: G.M. Carlomagno, C.A. Brebbia and S. Hernández, July 2013, WIT Press, Southampton, UK
<https://www.witpress.com/elibrary/wit-transactions-on-modelling-and-simulation/55/24866>
- **M.I. Khan**, "*Nano-silica/silica fume*", in Waste and Supplementary Cementitious Materials in Concrete, Edited By: R. Siddiqui and P. Cachim, December 2017, Elsevier
<https://editorial.elsevier.com/app/book?execution=e1s3>
- **M.I. Khan** and W. Abbass, "*Pullout behavior of single steel fiber with different strengths of concrete*", in Concrete Solutions, Edited By: Edited by G. Michael, P. Ioanna and S. Kosmas, July 2015, Taylor & Francis Group, UK, pp. 517–523. Print ISBN: 978-1-138-03008-4 eBook ISBN: 978-1-315-31559-1.
<http://www.crcnetbase.com/doi/abs/10.1201/9781315315607-75>

Editor/ Co-Editor Volumes

- Guest Editor of Special Issue: **M.I. Khan**, "*Structural Integrity and Cementitious Composites*", KSU- Engineering Sciences, Volume 29, Issue 4, Pages 301-406 (October 2017) published by Elsevier. ISSN: 1018-3639.

- RILEM Proceedings “*Joint Saudi Arabian–German Workshop on SHCC*” in the framework of the International Conference Application of SAP and Other New Admixtures in Concrete Construction, Dresden, Germany, Sep 2014. Edited by V. Mechtcherine and **M.I. Khan** https://tu-dresden.de/bu/bauingenieurwesen/ifb/ressourcen/dateien/forschung/SHCC/Workshop-on-SHCC_2014.pdf?lang=en

SELECTED PUBLICATIONS (Total publications: over 150)

Journals

- R. Masmoudi, A.M. Ali, D. Robillard and **M.I. Khan**. “Experimental investigation of bond and tube thickness effect on the flexural behavior of concrete-filled FPR tube under lateral cyclic loading.” *Journal of King Saud University - Engineering Sciences*. In press.
- **M.I. Khan** and Y. M. Abbas. “Curing optimization for strength and durability of silica fume and fuel ash concretes under hot weather conditions.” *Construction and Building Materials*. Vol. 157, No. 30, December 2017, pp. 1092-1105.
- **M.I. Khan**, G. Fares, and S. Mourad. “Optimized fresh and hardened properties of strain hardening cementitious composites: Effect of mineral admixtures, cementitious composition, Size and type of Aggregates.” *Journal of Civil Engineering Materials*, ASCE, USA. Vol. 29, No. 10 (October 2017).
- **M.I. Khan**, Y.M. Abbas and G. Fares. “Review of high and ultrahigh performance cementitious composites incorporating various combinations of fibers and ultrafines.” *Journal of King Saud University - Engineering Sciences*. Vol. 29, No. 4 (October 2017), pp. 339-347.
- **M.I. Khan**, “A novel method for measuring porosity for normal and high strength concrete.” *Journal of Testing and Evaluation*. ASTM, Vol. 45, No. 5, September 2017, pp. 1800-1820.
- F.K. Alqahtani, G. Ghataora, **M.I. Khan** and S. Dirar. “Novel lightweight concrete containing manufactured plastic aggregate.” *Construction and Building Materials*. Vol. 148, September 2017, pp. 386–397.
- F.K. Alqahtani, **M.I. Khan**, G. Ghataora and S. Dirar. “Production of Recycled Plastic Aggregates and its Utilization in Concrete.” *Journal of Civil Engineering Materials*. ASCE, Vol. 29, No. 4 (April 2017).
- **M.I. Khan**, S. Mourad and A. Charif, “Utilization of supplementary cementitious materials in HPC: From rheology to pore structure.” *KSCE Journal of Civil Engineering*. Vol. 21, No. 3, March, 2017. pp. 889–899.
- **M.I. Khan**, G. Fares, S. Mourad and W. Abbass. “Optimized fresh and hardened properties of SHCC: Effect of sand size and workability.” *Journal of Civil Engineering Materials*. ASCE. Vol. 28, Issue 12 (December 2016)
- **M.I. Khan** and W. Abbass, “Flexural behavior of high-strength concrete beams reinforced with a strain hardening cement-based composite layer.” *Construction and Building Materials*, Vol. 125, 30 October 2016, Pages 927–935
- Y.M. Abbas and **M.I. Khan**. “Fiber-matrix interfacial behavior of hooked-end steel fiber reinforced concrete”. *Journal of Civil Engineering Materials*. ASCE, Vol. 28, 2016.
- Charif, S. Mourad and **M.I. Khan**. “Flexural behavior of beams reinforced with steel bars exceeding the nominal yield strength.” *Latin American Journal of Solids and Structures*, Vol. 13, 2016, pp. 946-964.
- Y.M. Abbas and **M.I. Khan**. “Influence of fiber properties on shear failure of steel fiber reinforced beams without web reinforcement: ANN modeling.” *Latin American Journal of Solids and Structures*, Vol. 13, 2016, pp. 1483-1498.
- G. Fares, R.Z. Al-Zaid, A. Fauzi, A.M. Alhozaimy, A.I. Al-Negheimish and **M.I. Khan**. “Performance of optimized EAFD-based cementitious matrix compared to conventional supplementary cementitious materials.” *Construction and Building Materials*, Vol. 112, 2016, pp. 210-221.

- **M.I. Khan**, "Hybrid Fiber and Ultrahigh Performance Cementitious Composites." *MOJ Civil Eng*, Vol. 1, Issue 1, 2016. Editorial.
- **M.I. Khan**, S.M. Mourad, W.M. Zahid. "Developing and qualifying Civil Engineering Programs for ABET accreditation." *Journal of King Saud University – Engineering Sciences*, Vol. 28, 2016, pp. 1-11.
- Galal Fares, Rajeh Z. Al-Zaid, Amir Fauzi, Abdulrahman M. Alhozaimy, Abdulaziz I. Al-Negheimish and **M.I. Khan**. "Performance of optimized EAFD-based cementitious matrix compared to conventional supplementary cementitious materials." *Construction and Building Materials*, Vol. 112, 2016, pp. 210-221.
- Charif, S. Mourad and **M.I. Khan**. "Flexural behavior of beams reinforced with steel bars exceeding the nominal yield strength." *Latin American Journal of Solids and Structures*, Vol. 13, 2016, pp. 946-964.
- Y.M. Abbas and M.I. Khan. "Theoretical and physical modeling of fiber-matrix interactions: A review paper." *Arabian Journal for Science and Engineering (AJSE)*, Vol. 41, No. 4, 2016, pp. 1183-1198.
- G. Fares, **M.I. Khan**, S. Mourad and W. Abbass, "Evaluation of PVA and PBI-based engineered-cementitious composites under different environments". *Construction and Building Materials*, 85, 2015, 109–118.
- G. Fares and **M.I. Khan** "The effect of curing time on the ASR expansion of different HPC, Composites" *Construction and Building Materials*, Vol. 72, (2014), pp. 124–132.
- G. Fares and **M.I. Khan** "HPC composites formulated to counteract early ASR expansion" *Journal of Materials in Civil Engineering*, ASCE, 25(12), 2013, pp. 1951–1958.
- **M.I. Khan**, "Prediction Model and Relationship of Compressive and Tensile Strengths for High Performance Concrete", *Applied Mechanics and Materials*, Vol. 377, (2013), pp. 92-98.
- **M.I. Khan**, "Ring Test for the Measurement of Restrained Shrinkage of Concrete", *Applied Mechanics and Materials*, Vol. 377, (2013), pp. 86-91.
- **M.I. Khan** and A.A. Abadel, "Numerical Modeling of Steel Fiber-reinforced Beam", *Applied Mechanics and Materials*, Vol. 377 (2013) pp 22-27.
- G. Fares and **M.I. Khan**, "Nanosilica and its Future Prospects in Concrete", *Advanced Materials Research*, Vol. 658, 2013, pp. 50-55.
- M.N. Haral, A.I. Al-Negheimesh, G. Fares, **M.I. Khan**, and A.M. Alhozaimy, "Effects of Paste Content on Flow Characteristics of SCC Containing Local Natural Pozzolan", *World Academy of Science, Engineering and Technology*, 79, 2013, pp. 803-807.
- **M.I. Khan**, "Predicting Properties of High Performance Concrete Containing Composite Cementitious Materials using Artificial Neural Networks", *Automation in Construction*. Vol. 22, March 2012, pp. 516-524.
- **M.I. Khan**, "Mix Proportions for HPC Incorporating Multi-cementitious Composites Using Artificial Neural Networks", *Construction & Building Materials*. Vol. 28, No. 1, 2012, pp. 14–20.
- **M.I. Khan**, "Evaluation of Non-Destructive Testing of High Strength Concrete Incorporating Supplementary Cementitious Composites", *Resources, Conservation and Recycling*, Vol. 61, 2012, pp. 125-129.
- **M.I. Khan** and Raft Siddique, "Utilization of Silica Fume in Concrete: Review of Durability Properties", *Resources, Conservation and Recycling*, Vol. 57, 2011, pp. 30–35.
- **M. I. Khan**, "Comparison of Chloride Ion Penetration and Diffusion of High-Performance Concrete", *KSCE Journal of Civil Engineering*, Vol. 16, No. 6, 2012.
- **M.I. Khan**, "Direct Tensile Strength Measurement of Concrete", *Applied Mechanics and Materials*, Vols. 117-119, 2012, pp. 9-14.
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