

Shaukat Ali Khan

Professor of Practice  
NUST Institute of Civil Engineering

Email: sakhan@nice.nust.edu.pk  
Contact:



About

Dr. Shaukat Ali Khan is working as Professor of Practice in the NUST Institute of Civil Engineering. Dr. Shaukat Ali Khan has a PhD in Structural Engineering. Dr. Shaukat Ali Khan has published 26 research articles & conference papers having a citation count of 166, carried out 0 projects and filed 0 intellectual property.

Qualifications

<b>PhD in Structural Engineering</b> University of Sheffield , United Kingdom	2007 - 2011
<b>M.E in Structural Engineering</b> University of Calgary , Canada	2000 - 2002
<b>BS in Civil Engineering</b> Military College Of Engineering Risalpur , Pakistan	1990 - 1993

Experience

<b>Professor of Practice</b> NUST Institute of Civil Engineering	2024- Present
<b>Professor of Practice</b> NUST Institute of Civil Engineering	2023 - 2023
<b>Professor/ Vice President</b> Abasyn University Peshawar , Abasyn University Peshawar	2018 - 2023
<b>Associate Professor/ Associate Dean</b> Abasyn University Peshawar , Abasyn University Peshawar	2016 - 2018
<b>Assistant Professor</b> NUST Islamabad , NUST Sector H12 Islamabad	2004 - 2016
<b>Project Engineer</b> MPE Engg. Ltd. Canada , MPE Engg. Ltd. Canada	2002 - 2004
<b>Civil Engineer</b> Khyber Consulting Engineering Ltd. , Khyber Consulting Engineering Ltd. Peshawar	1996 - 1998
<b>Civil Engineer/Site Inspector</b> Engineering Associates , Head Office 31B Sunset Boulevard, DHA Karachi	1994 - 1996
<b>Civil Engineer</b> DAEWOO , DAEWOO Co. Section 4, Pakistan Division	1994 - 1994
<b>AXEN</b> Army Housing Dte. , HQ Army Housing, GHQ	1993 - 1994

Research Articles

<b>Improved damage assessment of bridges using advanced signal processing techniques of CEEMDAN-EWT and Kernal PCA</b> <i>Muhammad Usman Hanif Muhammad Usman Hassan Shaukat Ali Khan Ather Ali Hamza Ahsan Abdullah Janita Mahnoor Shahid Engineering Structures , Volume 329, Article Number 119774</i> <b>Impact Factor: 5.600   Quartile: 1   Citations: 2</b> <b>DOI:</b> doi.org/10.1016/j.engstruct.2025.119774	2025
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<b>Performance evaluation of indented macro synthetic polypropylene fibers in high strength self-compacting concrete (SCC)</b> <i>Chen Yaqin Saud Ul Haq Shahid Iqbal Inam Ullah Khan Shah Room Shaukat Ali Khan</i> <i>Scientific Reports</i> , Volume 14, Article Number: 20844 <b>Impact Factor:</b> 3.800   <b>Quartile:</b> 1   <b>Citations:</b> 5 <b>DOI:</b> <a href="https://doi.org/10.1038/s41598-024-71875-5">https://doi.org/10.1038/s41598-024-71875-5</a>	2024
<b>Analysis of full-scale aircraft impact to reinforced concrete and steel plate reinforced concrete multiple barriers protecting nuclear power plants</b> <i>Muhammad Sadiq Wasim Khaliq Rao Arsalan Khushnood Shaukat Ali Khan Pan Rong Pan Rong Muhammad Ilyas</i> <i>Structures</i> , Volume 27, Pages 732-746 <b>Impact Factor:</b> 2.983   <b>Quartile:</b> 2   <b>Citations:</b> 10 <b>DOI:</b> <a href="https://doi.org/10.1016/j.istruc.2020.06.030">https://doi.org/10.1016/j.istruc.2020.06.030</a>	2020
<b>Comparative assessment of impact analysis methods applied to large commercial aircraft crash on reinforced concrete containment</b> <i>Muhammad Sadiq Muhammad Ilyas Shaukat Ali Khan Pan Rong Wasim Khaliq Rao Arsalan Khushnood</i> <i>PLoS ONE</i> , Volume 15(10), Article Number e0237264 <b>Impact Factor:</b> 3.240   <b>Quartile:</b> 2   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.1371/journal.pone.0237264">https://doi.org/10.1371/journal.pone.0237264</a>	2020
<b>Enhanced mechanical properties of fiber reinforced concrete using closed steel fibers</b> <i>Shahid Iqbal Ihsan Ali Shah Room Shaukat Ali Khan Ahsan Ali</i> <i>Materials and Structures</i> , Volume 52, Issue 3, Article Number 56 <b>Impact Factor:</b> 2.901   <b>Quartile:</b> 1   <b>Citations:</b> 86 <b>DOI:</b> <a href="https://doi.org/10.1617/s11527-019-1357-6">https://doi.org/10.1617/s11527-019-1357-6</a>	2019
<b>Seismic vulnerability of non-ductile RC buildings in Pakistan through stochastic analysis of design/construction deficiencies</b> <i>Muhammad Usman Ali Shaukat Ali Khan Muhammad Yousaf Anwar Uzair Maqbool</i> <i>Bulletin of Earthquake Engineering</i> , Volume 17, Pages 759-780 <b>Impact Factor:</b> 2.602   <b>Quartile:</b> 2   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1007/s10518-018-0469-7">https://doi.org/10.1007/s10518-018-0469-7</a>	2019
<b>Seismic risk assessment for developing countries: Pakistan as a case study</b> <i>Shaukat Ali Khan Kypros Pilakoutas Iman Hajirasouliha Reyes Garcia Maurizio Guadagnini</i> <i>Earthquake Engineering and Engineering Vibration</i> , Volume 17, Issue 4, Pages 787-804 <b>Impact Factor:</b> 1.050   <b>Quartile:</b> 3   <b>Citations:</b> 14 <b>DOI:</b> <a href="https://doi.org/10.1007/s11803-018-0476-3">10.1007/s11803-018-0476-3</a>	2018
<b>Theoretical and experimental analysis of multifunctional high performance cement mortar matrices reinforced with varying lengths of carbon fibers</b> <i>Rao Arsalan Khushnood Shad Muhammad Sajjad Ahmad Jean-Marc Tulliani Muhammad Uzair Qamar Qareeb Ullah Shaukat Ali Khan Ahsen Maqsoom</i> <i>Materiales de Construcción</i> , Volume 68, Issue 332, Article Number e172 <b>Impact Factor:</b> 1.886   <b>Quartile:</b> 2   <b>Citations:</b> 5 <b>DOI:</b> <a href="https://doi.org/10.3989/mc.2018.09617">10.3989/mc.2018.09617</a>	2018
<b>Effect of 3D models on seismic vulnerability assessment of deficient RC frame structures</b> <i>Arslan Mushtaq Shaukat Ali Khan Junaid Ahmad M. Usman Ali</i> <i>Australian Journal of Structural Engineering</i> , NULL <b>Impact Factor:</b> 0   <b>Citations:</b> 6 <b>DOI:</b> <a href="https://doi.org/10.1080/13287982.2018.1480910">10.1080/13287982.2018.1480910</a>	2018
<b>Application of BCP-2007 and UBC-97 in seismic vulnerability assessment of gravity designed RC buildings in Pakistan</b> <i>Muhammad Usman Ali Shaukat Ali Khan Muhammad Yousaf Anwar</i> <i>Frontiers of Structural and Civil Engineering</i> , Volume: 11, Issue:4, Pages 396-405 <b>Impact Factor:</b> -   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1007/s11709-017-0436-4">https://doi.org/10.1007/s11709-017-0436-4</a>	2017
<b>Supercritical Flow Simulation at a Right Channel Junction. Comparison between a Uniform and a Sparse Mesh</b> <i>Sajjad Haider Hamza Farooq Gabriel Shaukat Ali Khan</i> <i>KSCE Journal of Civil Engineering</i> , , Volume 21, Issue 7, Pages 2984-2990 <b>Impact Factor:</b> 0.940   <b>Quartile:</b> 3   <b>Citations:</b> 8	2017

DOI: 10.1007/s12205-017-0811-7	
<b>Seismic performance of deficient masonry infill reinforced-concrete structures</b>	2017
Muhammad Usman Ali Shaukat Ali Khan Muhammad Yousaf Anwar Abdul Aleem Saim Raza Uzair Maqbool <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , Volume 170, Issue 2, Article number 1500115, Pages 143-155 <b>Impact Factor:</b> 0.674   <b>Quartile:</b> 4   <b>Citations:</b> 3 <b>DOI:</b> DOI:10.1680/jstbu.15.00115	
<b>Seismic vulnerability assessment of CFRP strengthened RC structures</b>	2017
Hammad Salahudin Shuakat Ali Khan Muhammad Usman Ali Arslan Mushtaq <i>Gradevinar</i> , Volume 69, Issue 2, Pages 121-130 <b>Impact Factor:</b> 0.515   <b>Quartile:</b> 4   <b>Citations:</b> 1 <b>DOI:</b> 10.14256/JCE.1555.2016	
<b>Seismic hazard assessment by preparing S1 and Ss maps for Baluchistan Province, Pakistan</b>	2016
Habib Ahmad Shaukat Ali Khan Attaullah Shah <i>Journal of Himalayan Earth Sciences</i> , Volume 49, Issue 2, Pages 129-136 <b>Impact Factor:</b> - <b>DOI:</b> -	
<b>Modelling steel-strip-confined reinforced-concrete columns</b>	2016
Muhammad Rizwan Shaukat Ali Khan Muhammad Ilyas Raja Rizwan Hussain <i>Proceedings of the Institution of Civil Engineers - Structures and Buildings</i> , Volume 169, Issue 4, Pages 245-256 <b>Impact Factor:</b> 0.424   <b>Quartile:</b> 4   <b>Citations:</b> 2 <b>DOI:</b> http://dx.doi.org/10.1680/jstbu.14.00084	
<b>Empirical vulnerability assessment of the non-engineered reinforced concrete structures using the Kashmir earthquake damage data</b>	2015
Sohaib Ahmad Shaukat Ali Khan Kypros Pilakoutas Qaiser Uz Zaman Khan <i>Bulletin of Earthquake Engineering</i> , Volume 13, Pages 2611-2628 <b>Impact Factor:</b> 2.036   <b>Quartile:</b> 2   <b>Citations:</b> 8 <b>DOI:</b> DOI:10.1007/s10518-015-9735-0	
<b>Probabilistic Application in Seismic Vulnerability Assessment of Deficient Low- to Medium-Rise Reinforced Concrete Buildings in Pakistan</b>	2015
Muhammad Usman Ali Shaukat Ali Khan Muhammad Yousaf Anwar Hamza Farooq Gabriel <i>Arabian Journal for Science and Engineering</i> , Volume 40, Pages 2479–2486 <b>Impact Factor:</b> 0.728   <b>Quartile:</b> 3   <b>Citations:</b> 4 <b>DOI:</b> DOI:10.1007/s13369-015-1684-z	
<b>Seismic Vulnerability Assessment of Deficient RC Structures with Bar Pullout and Joint Shear Degradation</b>	2015
Arslan Mushtaq Shaukat Ali Khan Hamza Farooq Gabriel Sajjad Haider <i>Advances in Civil Engineering</i> , Article Number: 537405 <b>Impact Factor:</b> N/A   <b>Citations:</b> 4 <b>DOI:</b> http://dx.doi.org/10.1155/2015/537405	
<b>Estimating seismic casualty in Khyber Pakhtunkhwa Province, Pakistan</b>	2014
Hasnain Iftikhar Muhammad Abbas Qureshi Shaukat Ali Khan <i>Life Science Journal</i> , Volume 11, Issue 9, Pages 492-500 <b>Impact Factor:</b> N/A <b>DOI:</b> http://www.lifesciencesite.com/ljsj/life1109s/097_25867life1109s14_492_500.pdf	
<b>Evaluation of Development and Land Use Change Effects on Rainfall-Runoff and Runoff-Sediment Relations of Catchment Area of Simly Lake Pakistan</b>	2014
Muhammad Shahid Hamza Farooq Gabriel Amjad Nabi Sajjad Haider Shaukat Ali Khan Syed Muhammad Ali Shah <i>Life Science Journal</i> , Volume 11, Issue 7, Pages 11-15 <b>Impact Factor:</b> N/A <b>DOI:</b> http://www.dx.doi.org/10.7537/marslsj1107s14.02	
<b>Seismic Risk Assessment of Khyber Pakhtunkhwa Province Pakistan</b>	2014
Shaukat Ali Khan Muhammad Abbas Qureshi <i>Life Science Journal</i> , Volume 11, Issue 2, Pages 28-34 <b>Impact Factor:</b> N/A <b>DOI:</b> http://www.lifesciencesite.com/ljsj/life1102s/007_21595life1102s14_28_34.pdf	

## Development of High Strength Concrete with Locally Available Material

2006

Tayyeb Akram Shaukat Ali Khan Shazim Ali Memon

Mehran University Research Journal of Engineering & Technology, Volume 25, No. 4, Pages 379

**Impact Factor:** N/A

**DOI:** [https://www.researchgate.net/publication/261831744\\_Development\\_of\\_high\\_strength\\_concrete\\_with\\_locally\\_available\\_material](https://www.researchgate.net/publication/261831744_Development_of_high_strength_concrete_with_locally_available_material)

## Conference Proceedings

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### An Earthquake Risk Assessment (ERA) Framework for Developing Countries

2010

Shaukat Ali Khan Iman Hajirasouliha Maurisio Guadagnini Kepros Pilakoutas

14th EUROPEAN Conference ON EARTHQUAKE Engineering, res.country(56,)

**Citations:** N/A

**DOI:** <https://toc.proceedings.com/11356webtoc.pdf>

### A Probabilistic Seismic Hazard Assessment Method for Earthquake Risk Assessment in Developing Countries

2010

Shaukat Ali Khan Iman Hajirasouliha Maaurisio Guadagnini Kepros Pilakoutas

14th EUROPEAN Conference ON EARTHQUAKE Engineering, res.country(56,)

**Citations:** N/A

**DOI:** Nil

### A Framework for Earthquake Risk Assessment for Developing Countries

2010

Shaukat Ali Khan Iman Hajirasouliha Maurizio Guadagnini Kepros Pilakoutas

9th U.S. National and 10th Canadian Conference on Earthquake Engineering. Toronto, Ontario, Canada, res.country(233,)

**Citations:** N/A

**DOI:** Nil

## Book Chapters

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### Aquifers Today and Tomorrow

2018

Muhammad Salik Javaid Shaukat Ali Khan

In: *Aquifers - Matrix and Fluids*, Chapter 1, Pages 1-4

**Citations:** N/A

**DOI:** DOI: 10.5772/intechopen.75800