Wasim Khaliq

Adjunct Faculty

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About

Dr. Wasim Khaliq is working as Adjunct Faculty in the NUST Institute of Civil Engineering. Dr. Wasim Khaliq has published 41 research articles & conference papers having a citation count of 2331, carried out 0 projects and filed 0 intellectual property.

Qualifications

Experience

Adjunct Faculty 2020- Present
NUST Institute of Civil Engineering

Adjunct Faculty 2017 - 2020
NUST Institute of Civil Engineering

- Present

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Research Articles

Influence of recycled electronic waste fiber on the mechanical and durability characteristics of eco-friendly self-consolidating mortar incorporating recycled glass aggregate 2025

Panumas Saingam Burachat Chatveera Jutatip Roopchalaem Qudeer Hussain Ali Ejaz Natt Makul Preeda Chaimahawan Gritsada Sua-iam Wasim Khaliq
Case Studies in Construction Materials, Volume:22, Article Number: e04369, Pages:19

Impact Factor: 6.5 | **Quartile:** 1 | **Citations:** 3
DOI: https://doi.org/10.1016/j.cscm.2025.e04369

Machine Learning and Regression Models for Evaluating Ultimate Performance of Cotton Rope-Confined Recycled Aggregate Concrete 2024

Kittipoom Rodsin Ali Ejaz Huaping Wang Panumas Saingam Panuwat Joyklad Wasim Khaliq Qudeer Hussain Chichaya Boonmee
Buildings , Volume: 15, Issue: 1, Article Number: 64, Pages:26

Impact Factor: 3.1 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.3390/buildings15010064

Shielding Encapsulation to Enhance Fire Endurance of Phase Change Materials in Energy-Efficient Concrete 2023

Wasim Khaliq Rao Arsalan Khushnood Muhammad Rizwan Muhammad Farhan Saleem Hassan Sardar
Fire Technology , Volume 59, Issue 4, Pages 1697-1723

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 5
DOI: https://doi.org/10.1007/s10694-023-01404-9

Influence of pyrolytic waste tire residue on the residual performance of high strength concrete exposed to elevated temperatures 2022

Hassan Sardar Rao Arsalan Khushnood Wasim Khaliq Hammad Anis Khan Muhammad Farhan Saleem
Journal of Building Engineering, Volume 54, Article Number 104657

Impact Factor: 7.144 | **Quartile:** 1 | **Citations:** 16
DOI: https://doi.org/10.1016/j.jobe.2022.104657

Synthesis of pyrolytic carbonized bagasse to immobilize Bacillus subtilis; application in healing micro-cracks and fracture properties of concrete 2022

Rao Arslan Khushnood Maria Kanwal Abdul Ghafar Wattoo Wasim Khaliq Tauseef Shahid
Cement and Concrete Composites, Volume 126, Article Number 104334

Impact Factor: 7.586 | **Quartile:** 1 | **Citations:** 57
DOI: 10.1016/j.cemconcomp.2021.104334

Comparative seismic performance assessment of RC and RC/ECC hybrid frame structures: a shake table study 2022

Fasih Ahmed Khan Muhammad Rashid Sajjad Wali Khan Muhammad Rizwan Yasir Irfan Badrashi Muhammad Fahim Muhammad Ashraf Tanoli Wasim Khaliq Akhtar Gul

Innovative Infrastructure Solutions, Volume 7, Issue 1, Article Number 94

Impact Factor: N/A | **Citations:** 13

DOI: 10.1007/s41062-021-00692-w

Restorability of strength and stiffness of fire damaged concrete using various composite confinement techniques 2021

M. Usman M. Yaqub M. Uzair Wasim Khaliq M. Noman A. Afaq

Construction and Building Materials, Volume 272, Article Number 121984

Impact Factor: 7.43 | **Quartile:** 1 | **Citations:** 27

DOI: https://doi.org/10.1016/j.conbuildmat.2020.121984

Performance evaluation for energy efficiency attainment in buildings based on orientation, temperature, and humidity parameters 2021

Wasim Khaliq Umaid Bin Mansoor

Intelligent Buildings International, Pages 1-17

Impact Factor: 0 | **Citations:** 6

DOI: https://doi.org/10.1080/17508975.2021.1873096

Comparative performance of different bacteria immobilized in natural fibers for self-healing in concrete 2020

Momina Rauf Wasim Khaliq Rao Arsalan Khushnood Iftikhar Ahmed

Construction and Building Materials, Volume 258, Article Number 119578

Impact Factor: 6.141 | **Quartile:** 1 | **Citations:** 142

DOI: https://doi.org/10.1016/j.conbuildmat.2020.119578

Analysis of full-scale aircraft impact to reinforced concrete and steel plate reinforced concrete multiple barriers protecting nuclear power plants 2020

Muhammad Sadiq Wasim Khaliq Rao Arsalan Khushnood Shaukat Ali Khan Pan Rong Pan Rong Muhammad Ilyas

Structures, Volume 27, Pages 732-746

Impact Factor: 2.983 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.1016/j.istruc.2020.06.030

Comparative assessment of impact analysis methods applied to large commercial aircraft crash on reinforced concrete containment 2020

Muhammad Sadiq Muhammad Ilyas Shaukat Ali Khan Pan Rong Wasim Khaliq Rao Arslalan Khushnood

PLoS ONE, Volume 15(10), Article Number e0237264

Impact Factor: 3.240 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1371/journal.pone.0237264

Synthesis and characterization of bio-immobilized nano/micro inert and reactive additives for feasibility investigation in self-healing concrete 2019

Nafeesa Shaheen Wasim Khaliq Habib Murtaza Rafay Iqbal Muhammad Humza Khan Rao Arsalan Khushnood

Construction and Building Materials, Volume 226, Pages 492-506

Impact Factor: 4.419 | **Quartile:** 1 | **Citations:** 100

DOI: 10.1016/j.conbuildmat.2019.07.202

Effect of processed pozzolans on residual mechanical properties and macrostructure of high-strength concrete at elevated temperatures 2019

Wasim Khaliq Abdul Mujeeb

Structural Concrete, Volume 20, Issue 1, Pages 307-317

Impact Factor: 2.174 | **Quartile:** 2 | **Citations:** 26

DOI: https://doi.org/10.1002/suco.201800074

Influence of multi-walled carbon nanotubes on the residual performance of concrete exposed to high temperatures 2018

Rao Arsalan Khushnood Waqas Latif Baloch Wasim Khaliq

Construction and Building Materials, Construction and Building Materials Volume: 185 Pages: 44-56

Impact Factor: 4.046 | **Quartile:** 1 | **Citations:** 128

DOI: 10.1016/j.conbuildmat.2018.07.051

High-Temperature Residual Strength and Microstructure in Air-Entrained High-Strength Concrete 2018

Rao Arsalan Khushnood Farhan Waheed Wasim Khaliq

ACI Materials Journal, Volume 115, Issue 3, Pages 425-435

Impact Factor: 1.453 | **Quartile:** 3 | **Citations:** 16

DOI: 10.14359/51702037

Mechanical and physical response of recycled aggregates high-strength concrete at elevated temperatures 2018

Wasim Khaliq Taimur

Fire Safety Journal, Volume 96, Pages 203-214

Impact Factor: 1.659 | **Quartile:** 2 | **Citations:** 132

DOI: https://doi.org/10.1016/j.firesaf.2018.01.009

Effectiveness of Polypropylene and Steel Fibers in Enhancing Fire Resistance of High-Strength Concrete Columns 2018

Wasim Khaliq Venkatesh Kodur

Journal of Structural Engineering, Volume:144, Issue: 3, Article Number:04017224

Impact Factor: 2.528 | **Quartile:** 2 | **Citations:** 69

DOI: 10.1061/(ASCE)ST.1943-541X.0001981

Shear capacity of cold-formed light-gauge steel framed shear-wall panels with fiber cement board sheathing 2017

Wasim Khaliq Ahmed Moghis

International Journal of Steel Structures, Volume: 17, Issue: 4, Pages: 1404-1414

Impact Factor: 0.734 | **Quartile:** 4 | **Citations:** 16

DOI: DOI:10.1007/s13296-017-1211-z

Mechanical response and spalling sensitivity of air entrained high-strength concrete at elevated temperatures 2017

Wasim Khaliq Farhan Waheed

Construction and Building Materials, Volume 150, Pages 747-757

Impact Factor: 3.485 | **Quartile:** 1 | **Citations:** 63

DOI: https://doi.org/10.1016/j.conbuildmat.2017.06.039

Efficiency Comparison of Conventional and Unconventional Curing Methods in Concrete 2017

Wasim Khaliq Waqas Javaid

ACI Materials Journal, Volume 114, Issue 02, Pages 285-294

Impact Factor: 1.252 | **Quartile:** 3

DOI: DOI:10.14359/51689564

High temperature mechanical and material properties of burnt masonry bricks 2016

Wasim Khaliq Muhammad Farrukh Bashir

Materials and Structures, Volume 49, Pages 5195–5208

Impact Factor: 2.607 | **Quartile:** 1 | **Citations:** 16

DOI: DOI:10.1617/s11527-016-0854-0

Immobilization in cement mortar of chromium removed from water using titania nanoparticles 2016

Ishtiaq Ahmed Qazi Muhammad Arshad Wasim Khaliq Ahmed Husnain

Journal of Environmental Management, Volume 172, Pages 10-17

Impact Factor: 4.010 | **Quartile:** 1 | **Citations:** 23

DOI: 10.1016/j.jenvman.2016.02.026

Crack healing in concrete using various bio influenced self-healing techniques 2016

Wasim Khaliq Muhammad Basit Ehsan

Construction and Building Materials, Volume 102, Part 1, Pages 349-357

Impact Factor: 3.169 | **Quartile:** 1 | **Citations:** 544

DOI: doi:10.1016/j.conbuildmat.2015.11.006

High temperature material properties of calcium aluminate cement concrete 2015

Wasim Khaliq Hammad Anis Khan

Construction and Building Materials, Volume 94, Pages 475-487

Impact Factor: 2.421 | **Quartile:** 1 | **Citations:** 183

DOI: 10.1016/j.conbuildmat.2015.07.023

Simplified approach for evaluating residual strength of fire-exposed reinforced concrete columns 2013

Venkatesh Kodur Nikhil Raut X. Y. Mao Wasim Khaliq

Materials and Structures, Volume 46, Issue 12, Pages 2059-2075

Impact Factor: 1.390 | **Quartile:** 1 | **Citations:** 94
DOI: 10.1617/s11527-013-0036-2

An approach to account for tie configuration in predicting fire resistance of reinforced concrete columns 2013

Venkatesh Kodur Wasim Khaliq Nikhil Raut

Engineering Structures , Volume 56, Pages 1976-1985

Impact Factor: 1.767 | **Quartile:** 1 | **Citations:** 22
DOI: https://doi.org/10.1016/j.engstruct.2013.08.023

Behavior of high strength fly ash concrete columns under fire conditions 2013

Wasim Khaliq Venkatesh Kodur

Materials and Structures , Volume 46, Issue 5, Pages 857-867

Impact Factor: 1.390 | **Quartile:** 1 | **Citations:** 35
DOI: 10.1617/s11527-012-9938-7

High Temperature Mechanical Properties of High-Strength Fly Ash Concrete with and without Fibers 2012

Venkatesh Kodur Wasim Khaliq

ACI Materials Journal , Volume 109, Issue 6, Pages 665-674

Impact Factor: 0.826 | **Quartile:** 2
DOI: https://www.concrete.org/publications/internationalconcreteabstractsportal.aspx?m=details&id=51684164

Thermal and mechanical properties of fiber reinforced high performance self-consolidating concrete at elevated temperatures 2011

Wasim Khaliq Venkatesh Kodur

Cement and Concrete Research, Volume 41, Issue 11, Pages 1112-1122

Impact Factor: 2.781 | **Quartile:** 1 | **Citations:** 322
DOI: https://doi.org/10.1016/j.cemconres.2011.06.012

Effect of High Temperature on Tensile Strength of Different Types of High-Strength Concrete 2011

Wasim Khaliq Venkatesh Kodur

ACI Materials Journal , Volume 108, Issue 4, Pages 394-402

Impact Factor: 0.803 | **Quartile:** 2
DOI: https://doi:10.14359/51683112

Effect of Temperature on Thermal and Mechanical Properties of Steel Bolts 2011

Venkatesh Kodur Sonali Kand Wasim Khaliq

Journal of Materials in Civil Engineering, Volume 24, Issue 6, Pages 765-774

Impact Factor: 0.733 | **Quartile:** 2 | **Citations:** 94
DOI: https://doi.org/10.1061/(ASCE)MT.1943-5533.0000445

Effect of Temperature on Thermal Properties of Different Types of High-Strength Concrete 2011

Venkatesh Kodur Wasim Khaliq

Journal of Materials in Civil Engineering, Volume 23, Issue 6, Pages 793-801

Impact Factor: 0.733 | **Quartile:** 2 | **Citations:** 163
DOI: https://doi.org/10.1061/(ASCE)MT.1943-5533.0000225

Conference Proceedings

Characterization of Conventional and Modern Curing Techniques in Concrete 2016

Dr. Wasim Khaliq Waqas Javaid

8th International Conference on Concrete Under Severe Conditions-Environment & Loading held from 12-14 Sep 2016 in Italy, res.country(109,)

Citations: N/A

DOI: http://dx.doi.org/10.4028/www.scientific.net/KEM.711.1118

Shear behavior of reinforced concrete slender beams 2016

Muhammad Khaliq ur Rashid Kayani Wasim Khaliq Muhammad Shehzad

First European and Mediterranean Structural Engineering and Construction Conference, Istanbul, Turkey, May 24-29, 2016, res.country(224,)

Citations: N/A

DOI: doi: 10.14455/ISEC.res.2016.88

High temperature properties of calcium aluminate cement concrete 2015

Dr. Wasim Khaliq Hammad Anis Khan

Fifth International Workshop on Performance, Protection & Strengthening of Structures Under Extreme Loading (PROTECT 2015), res.country(233,)

Citations: N/A

DOI: https://www.dpi-proceedings.com/index.php/protect2015/article/view/21430

Energy Efficient Design and Sustainable Buildings 2014

Dr. Wasim Khaliq Umaid Bin Mansoor

2014 International Conference on Energy Systems and Policies ICESP 2014 , res.country(177,)

Citations: N/A

DOI: 10.1109/ICESP.2014.7346977

Comparative Study of Curing of Concrete using Various Curing Techniques 2014

Wasim Khaliq Waqas Javaid

Advanced Concrete Technology and its Applications (ACTA-2014), Islamabad, Pakistan, res.country(177,)

Citations: N/A

DOI: No DOI

Comparative fire performance of high strength concrete columns with different types of fiber reinforcement 2013

Wasim Khaliq Venkatesh Kodur Nikhil Raut

Application of Structural Fire Engineering, 19-20 April 2013, Prague, Czech Republic, res.country(56,)

Citations: N/A

DOI: https://ojs.cvut.cz/ojs/index.php/asfe/issue/view/470

Fire Behavior of High Performance Concrete Structures 2012

Dr. Wasim Khaliq

International conference on Advanced Concrete Technology and its Applications (ACTA-2012) held from 6-7 Nov 2012 in Islamabad- Pakistan, res.country(177,)

Citations: N/A

DOI: https://www.engineersdaily.com/2012/11/international-conference-on-advanced.html

Effect of tie configuration on fire performance of high strength concrete columns 2012

Wasim Khaliq Venkatesh Kodur

7th International Conference on Structures in Fire, Zurich, Switzerland, 6-8 June 2012, res.country(43,)

Citations: N/A

DOI: https://doi.org/10.3929/ethz-a-007050197

High temperature properties of fiber reinforced high strength concrete 2010

Wasim Khaliq Venkatesh Kodur

ACI's Spring 2010 Convention to Highlight Xtreme Concrete , res.country(233,)

Citations: N/A

DOI: DOI: 10.14359/51682966