Muhammad Usman Hanif

Assistant Professor

NUST Institute of Civil Engineering

Email: usman.hanif@nice.nust.edu.pk

Contact: 0515141066

LinkedIn:



About

Dr. Muhammad Usman Hanif is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Muhammad Usman Hanif has a PhD in Structural Engineering And Materials. Dr. Muhammad Usman Hanif has published 23 research articles & conference papers having a citation count of 366, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Structural Engineering And Materials	2014 - 2018
Universiti Malaya , Malaysia	
MS in Structural Engineering NUST, Islamabad , Pakistan	2009 - 2012
BS in Civil Engineering UET Lahore , Pakistan	2005 - 2009

Experience

Assistant Professor

Assistant Professor	2024- Present
NUST Institute of Civil Engineering	
Assistant Professor	2022 - 2019
NUST Institute of Civil Engineering	

NUST Institute of Civil Engineering

Structural Engineer 2011 - 2014

Architectural and Civil Engineering Services, 2nd Floor, Safari Commercial Complex, Safari Villas-2, Phase 7, Bahria Town (11.13 km) Islamabad

Construction Manager 2009 - 2011

Bioresource Research Center, Irehman Villas Street No 1, Bukhari Chowk, Main Bahria Enclave Road, Mohra Nur Islamabad,

Professional Memberships

PEC Since 2009

Research Articles

Influence of arch action on load-carrying capacity of double-sized industrial precast slabs: A combined numerical and experimental study

2024

2019 - 2022

Fayiz Amin Alireza Bahrami Hafiz Ahmed Waqas M. Naveed Ijaz Ali Muhammad Usman Hanif Ali Ejaz Results in Materials, Volume 23, Article Number 100575

Impact Factor: N/A | Citations: 3

DOI: https://doi.org/10.1016/j.rinma.2024.100575

A novel method for acoustic emission source location in CFRP-concrete debonding using ΔT mapping and DBSCAN algorithm

2024

Muhammad Usman Hanif Soo-Yeon Seo Hai Van Tran Senghong Khol

Measurement, Volume 236, Article Number 115097

Impact Factor: 5.6 | Quartile: 1 | Citations: 4

DOI: https://doi.org/10.1016/j.measurement.2024.115097

Time-dependent flexural behavior of the RC beams strengthened with FRP strips using different methods

2024

DOI: https://doi.org/10.1016/j.istruc.2024.106655	
Numerical study on the design performance of wedge-type precast horizontal wall-slab joint for vertical load transfer	2024
Muhammad Usman Hanif Soo-Yeon Seo Muhammad Fawad	
Structures , Volume 60, Article Number 105799	
Impact Factor: 4.1 Quartile: 2 Citations: 1	
DOI: 10.1016/j.istruc.2023.105799	
Monitoring and characterizing the debonding in CFRP retrofitted RC beams using acoustic emission technology	2023
Muhammad Usman Hanif Soo-Yeon Seo Hai Van Tran Khol Senghong	
Developments in the Built Environment, Volume 14, Article Number 100141	
Impact Factor: 5.563 Quartile: 1 Citations: 11	
DOI: https://doi.org/10.1016/j.dibe.2023.100141	
Damage assessment of reinforced concrete beams using cost-effective MEMS accelerometers	2022
Sultani Mulk Khan Muhammad Usman Hanif Azam Khan Muhammad Usman Hassan Ahad Javanmardi Atif Ahmad	
Structures , Volume 41, Pages 602-618	
Impact Factor: 2.983 Quartile: 2 Citations: 16	
DOI: https://doi.org/10.1016/j.istruc.2022.04.101	
Application of Structural Control Systems for the Cables of Cable-Stayed Bridges: State-of-the-Art and State-of-the-Practice	2022
Ahad Javanmard Khaled Ghaedi Fuyun Huang Muhammad Usman Hanif Alireza Tabrizikahou	
Archives of Computational Methods in Engineering, Volume:29, Issue:3, Page:1611-1641	
Impact Factor: 8.171 Quartile: 1 Citations: 40	
DOI: 10.1007/s11831-021-09632-4	
A regression model for predicting the shear strength of RC knee joint subjected to opening and closing moment	2021
Azam Khan Muhammad Usman Hanif Moiz Tariq Javad Shayanfar Asad Ullah	
Journal of Building Engineering, Volume 41, Article Number 102727	
Impact Factor: 5.318 Quartile: 1 Citations: 12 DOI: doi.org/10.1016/j.jobe.2021.102727	
DOI. doi.org/10.1010/j.jobe.2021.102727	
Utilization of Solid Waste from Brick Industry and Hydrated Lime in Self-Compacting Cement Pastes	2021
Mati Ullah Shah Muhammad Usman Iqra Naseem Muhammad Usman Hanif Sara Farooq	
Materials , Volume 14(5), Article Number 1109	
Impact Factor: 3.748 Quartile: 1 Citations: 26 DOI: https://doi.org/10.3390/ma14051109	
201. https://doi.org/10.000/ma14001100	
State-of-the-Art Review of Metallic Dampers: Testing, Development and Implementation	2020
Ahad Javanmardi Zainah Ibrahim Khaled Ghaedi Hamed Benisi Ghadim Muhammad Usman Hanif	
Archives of Computational Methods in Engineering, Volume 27, Pages 455-478	
Impact Factor: 7.302 Quartile: 1 Citations: 165 DOI: 10.1007/s11831-019-09329-9	
Simulation-based non-linear vibration model for damage detection in RC beams	2019
Muhammad Usman Hanif Zainah Ibrahim Mohammed Jameel Khaled Ghaedi Huzaifa Hashim	
European Journal of Environmental and Civil Engineering, 1578270	
Impact Factor: 1.832 Quartile: 2 Citations: 12	
DOI: https://doi.org/10.1080/19648189.2019.1578270	
Damage assessment of reinforced concrete structures using a model-based nonlinear approach - A comprehensive review	2018
Zainah Ibrahim Khaled Ghaedi Huzaifa Hashim AhadJavanmardi Muhammad Usman Hanif	
Construction and Building Materials, Volume 192, Pages 846-865	
Impact Factor: 4.046 Quartile: 1 Citations: 37	
DOI: 10.1016/j.conbuildmat.2018.10.115	
Effect of incremental static damage on modal frequencies of reinforced concrete beams	2018

Hai Van Tran Soo-Yeon Seo Muhammad Usman Hanif Senghong Khol

Structures , Volume 65, Article Number 106655

Impact Factor: 3.900 | Quartile: 1

Zainah Ibrahim Huan Xin Lim You Xian Hang Muhammad Usman Hanif International Journal of Integrated Engineering, Volume 10, Issue 2, Pages 105-111, Special Issue SI

Impact Factor: 0 | Citations: 3 **DOI:** 10.30880/ijie.2018.10.02.020

Finite Element Simulation of Damage In RC Beams

2018

Zainah Ibrahim Khaled Ghaedi Ahad Javanmardi Sardar Kashif ur Rehman Muhammad Usman Hanif Journal of Civil Engineering, Science and Technology, Volume 9, Issue 2

Impact Factor: 0

DOI: 10.33736/jcest.883.2018

A new approach to estimate damage in concrete beams using non-linearity

2016

Zainah Ibrahim Mohammed Jameel Khaled Ghaedi Muhammad Aslam Muhammad Usman Hanif Construction and Building Materials , Volume 124, Pages 1081-1089

 $\textbf{Impact Factor: } 3.169 \mid \textbf{Quartile: } 1 \mid \textbf{Citations: } 36$

DOI: 10.1016/j.conbuildmat.2016.08.139

Conference Proceedings

DOI: 10.33736/jcest.883.2018

Time-dependent behavior of FRP-strengthened RC beams under sustained loading 2023 Hai Van Tran Khol Senghong Muhammad Usman Hanif Kang-Su Kim Hyun-do Yun Soo-Yeon Seo 2023 Autumn Korean Concrete Institute (KCI) Academic Conference, res.country(121,) Citations: N/A DOI: Nil Shear strengthening of RC beams using partial-length NSM approach 2023 Khol Senghong Hai Van Tran Muhammad Usman Hanif Soo-Yeon Seo 2023 Autumn Korean Concrete Institute (KCI) Academic Conference, res.country(121,) Citations: N/A DOI: Nil Monitoring the bond-slip behavior between concrete and CFRP laminate using Acoustic Emission 2023 Muhammad Usman Hanif Hai Van Tran Khol Senghong Soo-Yeon Seo 2023 Autumn Korean Concrete Institute (KCI) Academic Conference, res.country(121,) Citations: N/A DOI: N/A Improved technique to find the damage location in retrofitted concrete specimens using acoustic 2023 Muhammad Usman Hanif Soo-Yeon Seo Hai Van Tran Khol Senghong Hyun-do Yun 8th Crossover between Structure and Design, Structural Engineering World Conference, Seoul, 2023, res.country(121,) Citations: N/A DOI: N/A Modeling and Analysis of a Concrete Bridge using 3D Reconstruction Technique 2022 Mudassir Ahmad Hamza Tariq Ghufran Ahmad Muhammad Waleed Afzal Khan Muhammad Usman Hanif Muhammad Usman Hanif Ahmad Zaki The 2nd International Symposium on Civil, Environmental, and Infrastructural Engineering, res.country(100,) Citations: N/A DOI: N/A Performance of Precast Beam to Column Connection With Billet Connector Using FEM 2020 Ashraf Adel Almohagry Farooq Ahmed Athar Zainah Ibrahim Muhammad Usman Hanif Ahmad Zaki 4th International Conference on Sustainable Innovation 2020-Technology, Engineering and Agriculture (ICoSITEA 2020, res.country(100,) Citations: N/A DOI: 978-94-6239-334-9 Finite Element Modelling of Semi-Rigid Beam to Column Connection With Partly Hidden Corbel 2020 Farooq Ahmed Athar Zainah Ibrahim Ashraf Adel Almohagry Muhammad Usman Hanif Ahmad Zaki 4th International Conference on Sustainable Innovation 2020-Technology, Engineering and Agriculture (ICoSITEA 2020), res.country(100,) Citations: N/A DOI: N/A Finite Element Simulation of Damage in Reinforced Concrete Beams 2016 Muhammad Usman Hanif Zainah Ibrahim Mohammed Jameel Khaled Ghaedi Ahad Javanmardi Sardar Kashif ur Rehman 13th INTERNATIONAL CONFERENCE ON CONCRETE ENGINEERING AND TECHNOLOGY (CONCET2016), res.country(157,) Citations: N/A

Editorial Activities

Materials	2023
Reviewed Papers for Journals	
Impact Factor: 3.748	
Buildings	2023
Reviewed Papers for Journals	
Impact Factor: 3.324	
Sustainability	2023
Reviewed Papers for Journals	
Impact Factor: 3.889	
Materials	2022
Reviewed Papers for Journals	
Impact Factor: 3.748	
Materials	2022
Reviewed Papers for Journals	
Impact Factor: 3.748	
Materials	2022
Reviewed Papers for Journals	
Impact Factor: 3.748	
	2021
Reviewed Papers for Journals	
Impact Factor: 6.141	
Construction and Building Materials	2017
Reviewed Papers for Journals	
Impact Factor: 7 602	