

# Muhammad Usman

Professor

NUST Institute of Civil Engineering

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## About

Dr. Muhammad Usman is working as Professor in the NUST Institute of Civil Engineering. Dr. Muhammad Usman has a PhD in Structural Health Monitoring, Energy Harvesting. Dr. Muhammad Usman has published 85 research articles & conference papers having a citation count of 2051, carried out 23 projects and filed 4 intellectual property.

## Qualifications

<b>PhD in Structural Health Monitoring, Energy Harvesting</b> Korea Advanced Institute of Science & Technology , Pakistan	2012 - 2016
<b>MS in Structural Dynamics</b> Korea Advanced Institute of Science & Technology , Korea	2008 - 2010
<b>BE in Structures</b> NUST, Islamabad , Pakistan	2003 - 2007

## Experience

<b>Professor</b> NUST Institute of Civil Engineering	2025- Present
<b>Associate Professor</b> NUST Institute of Civil Engineering	2021 - 2019
<b>Assistant Professor</b> NUST Institute of Civil Engineering	2019 - 2021
<b>Assistant Professor</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2016 - 2021
<b>Assistant Professor</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2016 - 2016
<b>Lecturer</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2010 - 2016
<b>Research associate</b> Structural Control and Intelligent Systems Lab (KAIST) , Daejeon, South Korea	2011 - 2016
<b>Research Assistant</b> Structural Control and Intelligent Systems Lab (KAIST) , KAIST, Daejeon, South Korea	2008 - 2010
<b>Junior Engineer</b> NESPAK , F6 Islamabad, Pakistan	2007 - 2008
<b>Structural Engineer</b> Pakistan Engineering Services (PES) , Lahore, Pakistan	2007 - 2007
<b>Research Associate</b> NIT (NUST) , Risalpur Pakistan	2007 - 2007

## Awards

<b>ICE Publishing Award</b> ICE Publishing Award (Fredrick Palmer's Prize)	2020
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Professional Memberships

PEC

Since 2007

Research Projects

National Projects

Formulation of Printable Mix Design for Prefabricated Modular Construction	2025
Funding Agency: IGNITE	
Amount: PKR 57,334.00	
Status: Completed	
Development of NextGen Concrete	2023
Funding Agency: NUST	
Amount: PKR 17,000,000.00	
Status: Approved_inprocess	
Large Scale 3D Concrete Printing	2023
Funding Agency: NUST	
Amount: PKR 72,800,000.00	
Status: Approved_inprocess	
Sustainable Construction 3D-Printer	2021
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Completed	
Development of Magneto-Rheological Elastomer Based Seismic Isolation Systems for Seismic Protection of Civil Structures	2017
Funding Agency: HEC	
Amount: PKR 495,000.00	
Status: Completed	
Feasibility study of Smart MRE based base isolation system for Large scale application in civil engineering structures	2019
Funding Agency: HEC	
Amount: PKR 11,990,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Non-destructive Testing of R.C.C Structures at Bhara Kaho Fly-Over Islamabad - ECSP	2024
Client: M/S Engineering Consultancy Services Punjab	
Amount: PKR 156,000.00	
Status: Completed	
Provision of Consultancy Services for Non-Destructive testing (NDT) of Business District Building, DHA-5, Express Highway, Islamabad	2024
Client: M/S Comrades Planning & Design	
Amount: PKR 1,460,000.00	
Status: Completed	
Provision of Consultancy services for the Ultrasonic Pulse Velocity Testing of a Transom at Bara Kahu Bypass	2023
Client: M/S Innovative Nanoengineering Consulting Engineers	
Amount: PKR 90,000.00	
Status: Completed	
Provision of Consultancy Services for Core Testing of the Project “ESTABLISHMENT OF CANCER HOSPITAL, PIMS, ISLAMABAD”	2024
Client: Pak PWD	
Amount: PKR 205,000.00	
Status: Completed	

<b>SEMI-DESTRUCTIVE TESTING ON FIRE-EXPOSED PORTION OF CENTAURUS BUILDING ISLAMABAD</b>	2023
Client: Capital Development Authority	
Amount: PKR 1,520,000.00	
Status: Completed	
<b>Provision of Consultancy Services for Feasibility Study and Rehabilitation Design of Bhakkar-DI Khan Bridge</b>	2023
Client: Khyber Pakhtunkhwa Highway division	
Amount: PKR 2,535,000.00	
Status: Completed	
<b>Comparison of Best way and Fauji Cement Quality as per ASTM C-109 and BS EN-196</b>	2022
Client: China Gezhouba Group Co. Ltd. Dasu Hydropower Project Management	
Amount: PKR 248,000.00	
Status: Completed	
<b>comparison of Cement Quality and Strength as per ASTM C-109 and BS EN-196</b>	2022
Client: China Gezhouba Group Co. Ltd. Dasu Hydropower Project Management	
Amount: PKR 94,000.00	
Status: Completed	
<b>Screed Mix Recipe for Qavi Engineering</b>	2022
Client: Qavi Engineers	
Amount: PKR 140,000.00	
Status: Completed	
<b>Ferro Scanning and Ultrasonic Pulse Velocity Testing at House # 677, G-9, Islamabad</b>	2022
Client: Mr. Asghar Golo	
Amount: PKR 55,000.00	
Status: Completed	
<b>Concrete Mix Recipe for Agha Khan Medical Center, Gilgit using locally available materials</b>	2021
Client: Al-Shafi Enterprises	
Amount: PKR 200,000.00	
Status: Completed	
<b>Concrete Quality Assessment of RCC Foundation of Dormitory at CTTI Islamabad</b>	2021
Client: Pak PWD Islamabad	
Amount: PKR 411,000.00	
Status: Completed	
<b>Assessment of Concrete Quality of Base Slab Foundation at German Embassy Islamabad</b>	2021
Client: Qavi Engineers	
Amount: PKR 96,000.00	
Status: Completed	
<b>Expanded Polystyrene Smart (EPS) Panel Testing</b>	2021
Client: EPS Solutions	
Amount: PKR 462,000.00	
Status: Completed	
<b>Design for Construction of Mini Dam at Tehsil Naushera, District Khushab</b>	2020
Client: N/A	
Amount: PKR 1,804,910.00	
Status: Approved_inprocess	
<b>Expert Opinion on the Seismic Hazard Level and its Design Implications at Pakistan Gulpur Hydropower Project, District Kotli, AJK</b>	2020
Client: Daelim Lotte	
Amount: PKR 1,275,000.00	
Status: Approved_inprocess	
<b>International Projects</b>	
<b>Concrete Core Sampling and Testing of Rehmanabad Mall, Rehmanabad Chowk, Murree Road, Rawalpindi</b>	2021
Client: Al-Furqan International	
Amount: PKR 117,000.00	
Status: Completed	

<p><b>Probabilistic seismic loss estimation for residential buildings in Pakistan</b></p> <p><i>Sajid Mehmood Fawad Ahmed Najam Muhammad Usman Zain Ul Abidin Ali Khan Ghouri</i></p> <p><i>Natural Hazards</i> , Volume:121, Issue:12, Page:14443-14486</p> <p><b>Impact Factor:</b> 3.700   <b>Quartile:</b> 1</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s11069-025-07362-5">https://doi.org/10.1007/s11069-025-07362-5</a></p>	2025
<p><b>Numerical investigations on RC beam-column structures under collapse phenomenon-a simplified finite element approach</b></p> <p><i>Aleem Ullah Abdul Qadir Bhatti Attiq Ur Rahman Dogar Girum Urgessa Muhammad Usman</i></p> <p><i>Innovative Infrastructure Solutions</i> , Volume:10, Issue:6, Article Number 229</p> <p><b>Impact Factor:</b> 2.400   <b>Quartile:</b> 2</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s41062-025-02000-2">https://doi.org/10.1007/s41062-025-02000-2</a></p>	2025
<p><b>Advancing mix design prediction in 3D printed concrete: Predicting anisotropic compressive strength and slump flow</b></p> <p><i>Umair Jalil Malik Raja Dilawar Riaz Muhammad Usman Raja Ehsan Riaz Raja Hamza Saif Ur Rehman</i></p> <p><i>Case studies in construction materials</i> , Volume 21 , Article Number e03510</p> <p><b>Impact Factor:</b> 6.500   <b>Quartile:</b> 1   <b>Citations:</b> 8</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.cscm.2024.e03510">https://doi.org/10.1016/j.cscm.2024.e03510</a></p>	2024
<p><b>Effect of web holes on web crippling capacity of rectangular hollow steel sections under two flange loadings</b></p> <p><i>Muhammad Amir Taimur Junaid Ahmad Sarmad Shakeel Muhammad Usman</i></p> <p><i>Journal of Constructional Steel Research</i> , Volume 222, Article Number 108985</p> <p><b>Impact Factor:</b> 4.000   <b>Quartile:</b> 1</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.jcsr.2024.108985">https://doi.org/10.1016/j.jcsr.2024.108985</a></p>	2024
<p><b>Augmented Data-Driven Approach towards 3D Printed Concrete Mix Prediction</b></p> <p><i>Saif Ur Rehman Raja Dilawar Riaz Muhammad Usman In-Ho Kim</i></p> <p><i>Applied Sciences</i> , Volume 14(16), Article Number 7231</p> <p><b>Impact Factor:</b> 2.500   <b>Quartile:</b> 1   <b>Citations:</b> 3</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/app14167231">https://doi.org/10.3390/app14167231</a></p>	2024
<p><b>Thermal Performance Assessment of Concrete Walls Using Different Phase Change Materials</b></p> <p><i>Muhammad Usman Mahmood Hussain Arslan Mushtaq Syed Hassan Farooq Atif Mehmood Asad Hanif</i></p> <p><i>Advances in Civil Engineering</i> , Volume 2024, Article ID 2994221, 10 pages</p> <p><b>Impact Factor:</b> 1.500   <b>Quartile:</b> 3   <b>Citations:</b> 1</p> <p><b>DOI:</b> <a href="https://doi.org/10.1155/2024/2994221">https://doi.org/10.1155/2024/2994221</a></p>	2024
<p><b>Modal-based fragility analysis of high-rise tubular structures: A methodology for vulnerability assessment</b></p> <p><i>Muhammad Zain Chayut Ngamkhanong Thomas H.-K. Kang Dr Muhammad Usman Lapyote Prasittisopin</i></p> <p><i>Structures</i> , Volume:63, Article Number: 106289</p> <p><b>Impact Factor:</b> 3.9   <b>Quartile:</b> 1   <b>Citations:</b> 7</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.istruc.2024.106289">10.1016/j.istruc.2024.106289</a></p>	2024
<p><b>Optimizing Reinforcement Strategies for Robust Beam-Column Joints in Seismic-Resistant Structures</b></p> <p><i>Hafiz Ahmed Waqas Mehran Sahil Muhammad Mansoor Khan Abdul Wahid Anwar Mati Ullah Shah Muhammad Usman</i></p> <p><i>Arabian Journal for Science and Engineering</i> , Volume 49, Issue 4, Pages 6107-6124</p> <p><b>Impact Factor:</b> 2.600   <b>Quartile:</b> 2   <b>Citations:</b> 8</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s13369-023-08591-1">https://doi.org/10.1007/s13369-023-08591-1</a></p>	2024
<p><b>Establishing Efficacy of Machine Learning Techniques for Vulnerability Information of Tubular Buildings</b></p> <p><i>Muhammad Zain Suraparb Keawsawasvong Chanachai Thongchom Issara Sereewatthanawut Muhammad Usman Lapyote Prasittisopin</i></p> <p><i>Engineered Science</i> , Volume 27, Article Number 1008</p> <p><b>Impact Factor:</b> N/A   <b>Citations:</b> 21</p> <p><b>DOI:</b> <a href="https://doi.org/10.30919/es1008">10.30919/es1008</a></p>	2024
<p><b>Advancing structural health monitoring: A vibration-based IoT approach for remote real-time systems</b></p> <p><i>Saif Ur Rehman Muhammad Usman Muhammad Huzaiifa Younus Toor Qalandar Ali Hussaini</i></p> <p><i>Sensors and Actuators A: Physical</i> , Volume 365, Article Number 114863</p> <p><b>Impact Factor:</b> 4.6   <b>Quartile:</b> 1   <b>Citations:</b> 22</p>	2024

DOI: 10.1016/j.sna.2023.114863	
<b>Effect of Different Confinements on High-Strength Steel Fiber-Reinforced Concrete (SFRC) Beams</b> <i>Hammad Hafeez Waqas Ahmad Muhammad Usman Asad Hanif</i> <i>Arabian Journal for Science and Engineering</i> , Pages 1-14 <b>Impact Factor: 2.9   Quartile: 2   Citations: 1</b> <b>DOI: 10.1007/s13369-023-08171-3</b>	2023
<b>Enhanced mechanical properties of surface modified and silica reinforced nomex sandwich composites</b> <i>Malik Adeel Umer Muhammad Irfan Muhammad Siyar Muhammad Usman Sana Abbasi Muhammad Talha Masood</i> <i>Materials Today Communications</i> , Volume 36, Article Number 106346 <b>Impact Factor: 3.8   Quartile: 2   Citations: 2</b> <b>DOI: 10.1016/j.mtcomm.2023.106346</b>	2023
<b>Diagnosis of durability-related problems in concrete structures through comprehensive analysis and non-destructive testing: a case study</b> <i>Mati Ullah Shah Muhammad Usman Rao Arsalan Khushnood Asad Hanif</i> <i>Journal of Structural Integrity and Maintenance</i> , Pages 1-11 <b>Impact Factor: 3.00   Quartile: 2   Citations: 12</b> <b>DOI: <a href="https://doi.org/10.1080/24705314.2023.2233812">https://doi.org/10.1080/24705314.2023.2233812</a></b>	2023
<b>Machine Learning-Based Predictive Model for Tensile and Flexural Strength of 3D-Printed Concrete</b> <i>Ammar Ali Raja Dilawar Riaz Umair Jalil Malik Syed Baqar Abbas Muhammad Usman Mati Ullah Shah In-Ho Kim Asad Hanif Muhammad Faizan</i> <i>Materials</i> , Volume 16, Issue 11, Article Number 4149 <b>Impact Factor: 3.4   Quartile: 2   Citations: 41</b> <b>DOI: <a href="https://doi.org/10.3390/ma16114149">https://doi.org/10.3390/ma16114149</a></b>	2023
<b>Development of mortar filled honeycomb sandwich panels for resistance against repeated ballistic impacts</b> <i>Mehvesh Iqbal Muhammad Usman Ghulam Hussain Malik Adeel Umer Asad Hanif Wasim Khaliq</i> <i>Journal of Materials Research and Technology</i> , Volume 24, Pages 8121-8134 <b>Impact Factor: 6.267   Quartile: 1   Citations: 6</b> <b>DOI: <a href="https://doi.org/10.1016/j.jmrt.2023.05.026">https://doi.org/10.1016/j.jmrt.2023.05.026</a></b>	2023
<b>Self-centering passive base isolation system incorporating shape memory alloy wires for reduction in base drift</b> <i>Sania Dawood Muhammad Usman Mati Ullah Shah Muhammad Rizwan</i> <i>Smart Structures and Systems</i> , Volume 31, No.5, Pages 531-543 (13 pages) <b>Impact Factor: 3.5   Quartile: 2   Citations: 2</b> <b>DOI: <a href="https://doi.org/10.12989/ssss.2023.31.5.531">https://doi.org/10.12989/ssss.2023.31.5.531</a></b>	2023
<b>Enhancing Seismic Resilience of Existing Reinforced Concrete Building Using Non-Linear Viscous Dampers: A Comparative Study</b> <i>Raja Dilawar Riaz Umair Jalil Malik Mati Ullah Shah Muhammad Usman Fawad Ahmed Najam</i> <i>Actuators</i> , Volume 12, Issue 4, Article Number 175 <b>Impact Factor: 2.6   Quartile: 2   Citations: 16</b> <b>DOI: <a href="https://doi.org/10.3390/act12040175">https://doi.org/10.3390/act12040175</a></b>	2023
<b>Effect of multiwalled carbon nanotubes on compressive behavior of concrete at elevated temperature for mass concreting</b> <i>Kashan Nisar Muhammad Shahid Siddique Muhammad Rizwan Syed Hassan Farooq Muhammad Usman Asad Hanif</i> <i>European Journal of Environmental and Civil Engineering</i> , Pages 1-24 <b>Impact Factor: 2.187   Quartile: 3   Citations: 3</b> <b>DOI: 10.1080/19648189.2023.2194957</b>	2023
<b>Experimental investigation of tuned liquid column ball damper's position on vibration control of structure using different fluids</b> <i>Mati Ullah Shah Syed Waiz Shah Syed Hassan Farooq Muhammad Usman Farhan Ullah</i> <i>Innovative Infrastructure Solutions</i> , Volume 8, Issue 3, Article Number 111 <b>Impact Factor: 2.300   Quartile: 2   Citations: 8</b> <b>DOI: <a href="https://doi.org/10.1007/s41062-023-01080-2">https://doi.org/10.1007/s41062-023-01080-2</a></b>	2023
<b>Spring-controlled modified tuned liquid column ball damper for vibration mitigation of structures</b> <i>Mati Ullah Shah Muhammad Usman Syed Hassan Farooq Muhammad Rizwan</i> <i>Journal of Sound and Vibration</i> , Volume 545, Article Number 117443	2023

- Impact Factor:** 4.761 | **Quartile:** 1 | **Citations:** 25  
**DOI:** doi.org/10.1016/j.jsv.2022.117443
- Axial compressive behavior of concrete incorporating crumb rubber pretreated with waste quarry dust** 2022  
*Muhammad Ashar ul Aleem Muhammad Shahid Siddique Syed Hassan Farooq Muhammad Usman Muhammad Hamza Ahsan Manzoor Hussain Asad Hanif*  
*Journal of Building Engineering*, Volume 59, Article Number 105086  
**Impact Factor:** 7.144 | **Quartile:** 1 | **Citations:** 17  
**DOI:** https://doi.org/10.1016/j.job.2022.105086
- Analytical and experimental investigations on the performance of tuned liquid column ball damper considering a hollow ball** 2022  
*Mati Ullah Shah Muhammad Usman In-Ho, Kim Sania Dawood*  
*Structural Engineering and Mechanics*, Volume 83, Issue 5, Pages 655-669  
**Impact Factor:** 2.998 | **Quartile:** 2 | **Citations:** 5  
**DOI:** 10.12989/sem.2022.83.5.655
- Machine Learning-Based Fragility Assessment of Reinforced Concrete Buildings** 2022  
*Abdur Rasheed Muhammad Usman Muhammad Zain Nadeem Iqbal*  
*Computational Intelligence and Neuroscience*, Volume 2022, Article ID 5504283, 12 pages  
**Impact Factor:** 3.120 | **Quartile:** 2 | **Citations:** 11  
**DOI:** https://doi.org/10.1155/2022/5504283
- Effect of Volume Fraction on Shear Mode Properties of Fe-Co and Fe-Ni Filled Magneto-Rheological Elastomers** 2022  
*Shayan Tahir Muhammad Usman Malik Adeel Umer*  
*Polymers*, Volume:14, Issue:14,  
**Impact Factor:** 4.967 | **Quartile:** 1 | **Citations:** 14  
**DOI:** https://doi.org/10.3390/polym14142968
- Experimental Investigation of Concrete Properties using Locally available Coarse Aggregates in Punjab, Pakistan** 2022  
*Muhammad Ilyas Khan Matiullah Shah Muhammad Usman*  
*NUST Journal of Engineering Sciences*, Volume 15, No. 1, Pages 26-29  
**Impact Factor:** N/A  
**DOI:** https://doi.org/10.24949/njes.v15i1.655
- An experimental study of tuned liquid column damper controlled multi-degree of freedom structure subject to harmonic and seismic excitations** 2022  
*Mati Ullah Shah Muhammad Usman*  
*PLOS ONE*, Volume 17, Issue 6, Article Number e0269910  
**Impact Factor:** 3.752 | **Quartile:** 2 | **Citations:** 18  
**DOI:** https://doi.org/10.1371/journal.pone.0269910
- In-Plane Seismic Strengthening of Brick Masonry Using Steel and Plastic Meshes** 2022  
*Safi Ullah Syed Hassan Farooq Muhammad Usman Burhan Ullah Manzoor Hussain Asad Hanif*  
*Materials*, Volume 15, Issue 11, Article Number 4013  
**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 5  
**DOI:** https://doi.org/10.3390/ma15114013
- Mechanical behavior of high-strength concrete incorporating seashell powder at elevated temperatures** 2022  
*Muhammad Hamza Ahsan Muhamad Shahid Siddique Syed Hassan Farooq Muhammad Usman Muhammad Ashar ul Aleem Manzoor Hussain Asad Hanif*  
*Journal of Building Engineering*, Volume 50, Article Number 104226  
**Impact Factor:** 5.318 | **Quartile:** 1 | **Citations:** 38  
**DOI:** https://doi.org/10.1016/j.job.2022.104226
- Microstructure and Corrosion Behavior of Atmospheric Plasma Sprayed NiCoCrAlFe High Entropy Alloy Coating** 2022  
*Kashif Mehmood Malik Adeel Umer Ahmed Umar Munawar M. Imran Muhammad Shahid Rabeeka Firdous Humair Kousar Muhammad Usman*  
*Materials*, Volume 15, Issue 4, Article Number 1486  
**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 18  
**DOI:** https://doi.org/10.3390/ma15041486
- Performance Evaluation of MWCNTs Reinforced Cement Mortar Composites using Natural and Commercial Surfactants** 2022  
*Qareeb Ullah Rao Arsalan Khushnood Sajjad Ahmad Muhammad Usman Shad Muhammad Jean-Marc Tulliani*

**Impact Factor:** 0.957 | **Quartile:** 4 | **Citations:** 2

**DOI:** <https://doi.org/10.1007/s11595-022-2498-y>

**Vibration control of an irregular structure using single and multiple tuned mass dampers**

2022

*Imdad Ullah Khan Muhammad Usman Muhammad Tanveer*

*Proceedings of the Institution of Civil Engineers - Structures and Buildings*, Pages 1-13

**Impact Factor:** 1.171 | **Quartile:** 4 | **Citations:** 4

**DOI:** <https://doi.org/10.1680/jstbu.21.00011>

**Effect of Tuned Spring on Vibration Control Performance of Modified Liquid Column Ball Damper**

2021

*Mati Ullah Shah Muhammad Usman Syed Hassan Farooq In-Ho Kim*

*Applied Sciences*, Volume 12(1), Article Number 318

**Impact Factor:** 2.679 | **Quartile:** 1 | **Citations:** 16

**DOI:** [10.3390/app12010318](https://doi.org/10.3390/app12010318)

**Suitability of liquid crystal display (LCD) glass waste as supplementary cementing material (SCM):  
Assessment based on strength, porosity, and durability**

2021

*Hee JunYang Muhammad Usman Asad Hanif*

*Journal of Building Engineering*, Volume 42, Article Number 102793

**Impact Factor:** 5.318 | **Quartile:** 1 | **Citations:** 34

**DOI:** <https://doi.org/10.1016/j.job.2021.102793>

**A Framework with reduced computational burden for Seismic Fragility Assessment of Reinforced  
Concrete Buildings in High-Intensity Seismic Zones**

2021

*Muhammad Zain Muhammad Usman Syed Hassan Farooq*

*Structures*, Volume 33, Pages 3055-3065

**Impact Factor:** 2.983 | **Quartile:** 2 | **Citations:** 13

**DOI:** <https://doi.org/10.1016/j.istruc.2021.06.050>

**Effect of steel and concrete thickness on shear strength of square concrete filled double skin tubular  
beams**

2021

*Muhammad Usman Wahab Ashraf Asad Hanif Syed Hassan Farooq Najeeb Ullah*

*Case Studies in Construction Materials*, Volume 14, Article Number e00478

**Impact Factor:** 4.934 | **Quartile:** 1 | **Citations:** 6

**DOI:** <https://doi.org/10.1016/j.cscm.2020.e00478>

**Effect of masonry infill on analytical fragility response of RC frame school buildings in high seismic  
zone**

2021

*Muhammad Waleed Khan Muhammad Usman Syed Hassan Farooq Muhammad Zain Sajid Saleem*

*Journal of Structural Integrity and Maintenance*, Volume 6, Issue 2, Pages 110-122

**Impact Factor:** N/A | **Citations:** 14

**DOI:** <https://doi.org/10.1080/24705314.2020.1865624>

**Investigation of the Structural Response of the MRE-Based MDOF Isolated Structure under Historic  
Near- and Far-Fault Earthquake Loadings**

2021

*Muhammad Ahsan Tariq Syed Hassan Farooq Imran Ullah Asad Hanif Muhammad Usman*

*Applied Sciences*, Volume 11(6), Article Number 2876

**Impact Factor:** 2.838 | **Quartile:** 2 | **Citations:** 11

**DOI:** <https://doi.org/10.3390/app11062876>

**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>

**Durability of slag waste incorporated steel fiber-reinforced concrete in marine environment**

2021

*Seungwon Kim Yongjae Kim Muhammad Usman Cheolwoo Park Asad Hanif*

*Journal of Building Engineering*, Volume 33, Article Number 101641

**Impact Factor:** 7.144 | **Quartile:** 1 | **Citations:** 58

**DOI:** <https://doi.org/10.1016/j.job.2020.101641>

**Recent Progress in Isotropic Magnetorheological Elastomers and Their Properties: A Review**

2020

*Muhammad Arslan Hafeez Muhammad Usman Asad Hanif Malik Adeel Umar*

Polymers , Volume 12(12), Article Number 3023	
<b>Impact Factor:</b> 4.329   <b>Quartile:</b> 1   <b>Citations:</b> 47	
<b>DOI:</b> 10.3390/polym12123023	
<b>Material Optimization of Tuned Liquid Column Ball Damper (TLCBD) for the Vibration Control of Multi-Storey Structure Using Various Liquid and Ball Densities</b>	2020
<i>Muhammad Tanveer Muhammad Usman Imdad Ullah Khan Syed Hassan Farooq Asad Hanif</i>	
<i>Journal of Building Engineering</i> , Volume 32, Article Number 101742	
<b>Impact Factor:</b> 5.318   <b>Quartile:</b> 1   <b>Citations:</b> 33	
<b>DOI:</b> <a href="https://doi.org/10.1016/j.jobe.2020.101742">https://doi.org/10.1016/j.jobe.2020.101742</a>	
<b>Interfacial characteristics of cement mortars containing aggregate derived from industrial slag waste</b>	2020
<i>Hyongi Lee Asad Hanif Muhammad Usman Yonghwan Kim Hongseob Oh Seong Kyum Kim</i>	
<i>Journal of Structural Integrity and Maintenance</i> , Volume 5, Issue 4, Page 236-243	
<b>Impact Factor:</b> -   <b>Citations:</b> 10	
<b>DOI:</b> <a href="https://doi.org/10.1080/24705314.2020.1783124">https://doi.org/10.1080/24705314.2020.1783124</a>	
<b>Emerging trends in the growth of structural systems for tall buildings</b>	2020
<i>Shazim Ali Memon Muhammad Zain Dichuan Zhang Sardar Kashif Ur Rehman Muhammad Usman Deuckhang Lee</i>	
<i>Journal of Structural Integrity and Maintenance</i> , Volume 5, Issue 3, Page 155-170	
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<b>Techno-Press Journals</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.9	2024
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