Muhammad Rizwan

Associate Professor

National Institute of Transportation

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Contact: 0923568547

LinkedIn:



About

Dr. Muhammad Rizwan is working as Associate Professor in the National Institute of Transportation. Dr. Muhammad Rizwan has a PhD in (Structural Engg). Dr. Muhammad Rizwan has published 27 research articles & conference papers having a citation count of 109, carried out 6 projects and filed 0 intellectual property.

Qualifications

Sta HQ Lahore , Sta HQ Lahore

PhD in (Structural Engg) UET Lahore , Pakistan	2005 - 2009
MSc in (Structural Engg) UET Lahore , Pakistan	2003 - 2005
BE in (Civil Engg) Military College Of Engineering Risalpur , Pakistan	1988 - 1992
F.Sc in Pre Engineering BISE, Sargodha , Pakistan	1987 - 1989
Matric (SSC) in Science Board of Intermediate and Secondary Education, Lahore , Pakistan	1986 - 1987
Experience	
Associate Professor National Institute of Transportation	2024- Present
Assistant Professor National Institute of Transportation	2022 - 2024
Defence Faculty Military College of Engineering	2009 - 2022
Instructor Class-B and Instructor Class-A Military College of Engineering Risalpur , Military College of Engineering Risalpur	2016 - 2022
GSO-II E-10 HQ DGW&CE Army , HQ DGW&CE Army	2016 - 2016
Instructor Class-B Military College of Engineering Risalpur , Military College of Engineering Risalpur	2015 - 2016
Post Doc Fellow Department of Mining , University of Witwatersrand, Johannesburg	2013 - 2015
Instr CI B, Military College of Engineering , Engrs Dte	2009 - 2013
PG Student	2002 - 2009

Industry Projects

National Projects

"JMF Design of AWC and ABC at Islamabad International Airport"

Client: PCA

Amount: PKR 868,000.00 Status: Approved_inprocess

Payment of Remuneration for the Material Testing Project at DHA Peshawar Consultancy Project – "Material Testing and Concrete Mix Design"

Client: DHA Peshawar Amount: PKR 310,500.00 Status: Completed

Vertical Sounding (VES) in Commercial Sector A at DHA Peshawar

Client: DHA Peshawar Amount: PKR 255,000.00 Status: Completed

Hydrology Study Terrain Analysis at DHA Quetta

2022

Client: DHA Quetta

Amount: PKR 22,000,000.00

Status: Approved inprocess

Supervision of and Construction works of DHA - Quetta

2022

Client: DHA Quetta
Amount: PKR 27,600,000.00
Status: Approved inprocess

Supervision of Implementation of Remedial Works at Custom Building IIAP Islamabad

2022

Client: CAA

Amount: PKR 28,800,000.00 Status: Approved_inprocess

International Projects

Research Articles

Towards sustainable construction: Harnessing potential of pumice powder for eco-friendly concrete, augmented by hybrid fiber integration to elevate concrete performance

2024

Umar Farooq Muhammad Rizwan Wasim khaliq .. Ali Ejaz Panumas Saingam Qudeer Hussain Panuwat Joyklad

Case studies in construction materials, Elsevier BV Impact Factor: 6.500 | Quartile: 1 | Citations: 4

DOI: https://doi.org/10.1016/j.cscm.2024.e03815

Optimizing hybrid fiber content for enhanced thermo-mechanical performance of high-strength

2024

concrete

Mushtaq Ahmad Muhammad Rizwan Muhammad Faisal Javed Loai Alkhattabi Fahid Aslam Muhammad Nouman Qamar Farman Ullah Materials Today Communications. Volume 39, Article Number 109293

Impact Factor: 3.8 | Quartile: 2 | Citations: 3 DOI: 10.1016/j.mtcomm.2024.109293

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

2023

Concrete

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

Self-centering passive base isolation system incorporating shape memory alloy wires for reduction in

2023

base drift

Sania Dawood Muhammad Usman Mati Ullah Shah Muhammad Rizwan

Smart Structures and Systems, Volume 31, No.5, Pages 531-543 (13 pages)

Impact Factor: 3.5 | Quartile: 2 | Citations: 2 DOI: https://doi.org/10.12989/sss.2023.31.5.531

Seismic behaviour of concrete bridge piers with various types of transverse reinforcement

2023

Inzimam ul Haq Muhammad Fiaz Tahir Qaiser uz Zaman Khan Ali Raza Muhammad Rizwan

Proceedings of the Institution of Civil Engineers - Structures and Buildings, Volume 176, Issue 5, Pages 349-360

Impact Factor: 1.6 | Quartile: 3 | Citations: 1 DOI: https://doi.org/10.1680/jstbu.20.00282

Effect of multiwalled carbon nanotubes on compressive behavior of concrete at elevated temperature

2023

for mass concreting

Kashan Nisar Muhammad Shahid Siddique Muhammad Rizwan Syed Hassan Farooq Muhammad Usman Asad Hanif

European Journal of Environmental and Civil Engineering, Pages 1-24

Impact Factor: 2.187 | Quartile: 3 | Citations: 3

DOI: 10.1080/19648189.2023.2194957

A scientometric analysis approach on the plastic sand

2023

Bawar Iftikhar Sophia C. Alih Mohammadreza Vafaei Raid Alrowais Muhammad Tariq Bashir Alamgir Khalil Muhammad Rizwan Muhammad Faisal Javed

Muhammad Faisal Rehman Abdullah Mohamed Heliyon , Volume 9, Issue 3, Article Number e14457

Impact Factor: 4.0 | Quartile: 2 | Citations: 13 DOI: https://doi.org/10.1016/j.heliyon.2023.e14457

Spring-controlled modified tuned liquid column ball damper for vibration mitigation of structures

2023

Mati Ullah Shah Muhammad Usman Syed Hassan Farooq Muhammad Rizwan

Journal of Sound and Vibration, Volume 545, Article Number 117443

Impact Factor: $4.761 \mid$ Quartile: $1 \mid$ Citations: 25

DOI: doi.org/10.1016/j.jsv.2022.117443

Tensile Strength Improvement of Concrete Slabs Using Polyurea Spray

2021

Muhammad Rizwan Shaheer Khaleequzzaman Uzair Khaleeq-uz-Zaman Syed Aqib Fida Amjed Shahzad Muneeb Rehman Muhammad Oneeb Sulaiman Practice Periodical on Structural Design and Construction, Volume 26(1), Article Number 04020048

Impact Factor: N/A | Citations: 9

DOI: 10.1061/(ASCE)SC.1943-5576.0000530

Damage assessment of deficient reinforced concrete setback structures

2018

Abdul Waheed Muhammad Ammar Ayub Muhammad Rizwan

Proceedings of the Institution of Civil Engineers - Structures and Buildings, Volume 171, Issue 9, Pages 696-704, Published: Sep 2018

Impact Factor: 0.877 | Quartile: 4 | Citations: 7

DOI: 10.1680/jstbu.17.00095

Modelling steel-strip-confined reinforced-concrete columns

2016

Muhammad Rizwan Shaukat Ali Khan Muhammad Ilyas Raja Rizwan Hussain

Proceedings of the Institution of Civil Engineers - Structures and Buildings , Volume 169, Issue 4, Pages 245-256

Impact Factor: 0.424 | Quartile: 4 | Citations: 2 DOI: http://dx.doi.org/10.1680/jstbu.14.00084

Enhancement of the tensile strengths of rock and shotcrete by thin spray-on liners

2015

P. Mpunzi R. Masethe M. Rizwan T.R. Stacey

Tunnelling and Underground Space Technology, Volume 49, Pages 369-375

Impact Factor: 1.741 | Quartile: 1 | Citations: 31 DOI: https://doi.org/10.1016/j.tust.2015.05.013

Computer based estimation of backbone curves for hysteretic Response of reinforced concrete columns under static cyclic lateral loads

2014

Muhammad Rizwan M.T.A. Chaudhary M. Ilyas Raja Rizwan Hussain T.R. Stacey

Computers and Concrete, Volume 14, Issue 2, Pages 193-209

Impact Factor: 0.869 | Quartile: 2 | Citations: 1 DOI: http://dx.doi.org/10.12989/cac.2014.14.2.193

Analytical Load Displacement Curves of RC Columns under Constant Axial and Cyclic Lateral Loads

2014

M. Rizwan M. T. A. Chaudhary M. Ilyas

Pakistan Journal of Engineering and Applied Sciences, Volume 15, Pages 37-49

Impact Factor: N/A

DOI: https://journal.uet.edu.pk/ojs_old/index.php/pjeas/article/view/94/55

Experimental Behavior of RC Columns, Confined with Stirrup and Strips, Under Cyclic Axial Load

2014

M. Fiaz Tahir Qaiser-Uz-Zaman Khan Muhammad Rizwan M. Ashraf M. Yaqub

Arabian Journal for Science and Engineering, Volume 39, Issue 5, Pages 3449-3460

Impact Factor: N/A | Citations: 2 DOI: DOI 10.1007/s13369-014-0968-z

Push over Analysis of steel strengthened Masonry

2012

Syed Hassan Farooq Muhammad Ilyas Muhammad Rizwan

Pakistan Journal of Engineering & Applied Sciences, Volume 10, Pages 36-44

Impact Factor: N/A

DOI: https://journal.uet.edu.pk/ojs_old/index.php/pjeas/article/view/160

Design Spectrums Based on Earthquakes Recorded at Tarbela

2008

Muhammad Rizwan M Ilyas Asif Masood

Quarterly Mehran University Research Journal of Engineering & Technology, HEC Approved Journal

Impact Factor: 0

DOI: -----

An Approach to Digitize Analog Form of Accelerograms Recorded at Tarbela-Pakistan

2008

Muhammad Rizwan M. Ilyas Asif Masood I. Towhata

Soil Dynamics and Earthquake Engineering, Volume 28, Issue 4, Pages 328-332

Impact Factor: 1.182 | Quartile: 1 | Citations: 1 DOI: https://doi.org/10.1016/j.soildyn.2007.06.015

Reconstruction Challenges After Kashmir-Hazara Earthquake

2006

Muhammad Rizwan M Ilyas

Engineering News - A Quarterly Journal of the Pakistan Engineering Congress, Engineering News - A Quarterly Journal of the Pakistan Engineering Congress

Congress

Impact Factor: 0

DOI: https://pecongress.org.pk/images/upload/books/VoI.42(No.8&9).pdf

Conference Proceedings

DOI: Nil

Conference Proceedings	
Conceptual Support Systems to Limit Damage to Tunnel Floors in Rockbursting Environments Muhammad Rizwan T. R. STACEY 13th ISRM International Congress of Rock Mechanics, 10-13 May, Montreal, Canada, res.country(38,) Citations: N/A DOI: ISBN: 978-1-926872-25-4	2015
Review of Sawat-Indus Flood 2010 – Documentation, Lesson Learnt and a Way Forward MUHAMMAD RIZWAN M T A Chaudhary MUHAMMAD NASEEM BAIG The First Saudi International Conference on Crisis and Disaster Management, res.country(192,) Citations: N/A DOI: Nil	2013
Design of RC Frames According to Seismic Provisions Suggested for Islamabad-A Comparative Studt MUHAMMAD ILYAS MUHAMAMD RIZWAN M T A Chaudhary International Conference on Earthquake Engineering, res.country(177,) Citations: N/A DOI: ISBN-969-546-013-5	2006
A Study of Damage to Reinforced Concrete Structures due to Kashmir-Hazara Earthquake, 8th October 2005 MUHAMMAD ILYAS MUHAMMAD RIZWAN 7th International Congress on Civil Engineering, res.country(107,) Citations: N/A DOI: Nil	2006
Devastating Effects of Kashmir - Hazara Earthquake MUHAMMAD ILYAS MUHAMMAD RIZWAN SBCN Asia 2006-International Conference on Safe & Quality Buildings in Asia - Review of Practices res.country(177,) Citations: N/A DOI: Nil	2006
Design of R.C Buildings Under Moderate Earthquakes MUHAMMAD ILYAS MUHAMMAD RIZWAN 2nd International Conference on Concrete & Development, res.country(107,) Citations: N/A DOI: Nil	2005
Ground Failure And Structural Damages During Recent Earthquakes In Northern Areas Of Pakistan MUHAMMAD ILYAS MUHAMMAD RIZWAN Syed Hassan Farooq First National Seminar on Geotechnical Aspects of Hydropower Projects, res.country(282,) Citations: N/A DOI: Nil	2005
Damage Observed in Earthquakes on February 14th, 2004 in Northern Pakistan MUHAMMAD ILYAS MUHAMMAD RIZWAN International Conference for Building & Construction, res.country(65,) Citations: N/A	2004