

Umair Jalil Malik

Lab Engineer

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About

Dr. Umair Jalil Malik is working as Lab Engineer in the NUST Institute of Civil Engineering. Dr. Umair Jalil Malik has published 9 research articles & conference papers having a citation count of 147, carried out 1 projects and filed 0 intellectual property.

Qualifications

BS in Structural Engineering

NUST, Islamabad , Pakistan

2019 - 2023

Experience

Lab Engineer

NUST Institute of Civil Engineering

2025- Present

Lab Engineer

NUST Institute of Civil Engineering

2023 - 2023

Industry Projects

National Projects

Geotechnical Consultancy Project for “Field Density Tests at German Embassy, Islamabad.

Client: DVK Construction Pvt Ltd

Amount: PKR 208,500.00

Status: Completed

2023

International Projects

Advancing mix design prediction in 3D printed concrete: Predicting anisotropic compressive strength and slump flow

Umair Jalil Malik Raja Dilawar Riaz Muhammad Usman Raja Ehsan Riaz Raja Hamza Saif Ur Rehman
Case studies in construction materials , Volume 21 , Article Number e03510

Impact Factor: 6.500 | **Quartile:** 1 | **Citations:** 8
DOI: <https://doi.org/10.1016/j.cscm.2024.e03510>

2024

Advancing seismic resilience: Performance-based assessment of mid-rise and high-rise engineered cementitious composite (ECC) Buildings

Umair Jalil Malik Fawad Ahmed Najam Sikandar Ali Khokhar Fazal Rehman Raja Dilawar Riaz
Case Studies in Construction Materials , Volume 20, Article Number e02732

Impact Factor: 6.2 | **Quartile:** 2 | **Citations:** 13
DOI: <https://doi.org/10.1016/j.cscm.2023.e02732>

2024

Seismic evaluation of non-seismically detailed RC buildings in Pakistan: performance and damage accumulation under repeated earthquakes.

Saima Munir Fawad Ahmed Najam Asad ur Rahman Umair Jalil Malik Irfan Ahmad Rana Ather Ali
Bulletin of Earthquake Engineering , Volume: 22, Pages 4547–4579,

Impact Factor: 4.600 | **Quartile:** 1
DOI: <https://doi.org/10.1007/s10518-024-01935-8>

2024

ANN-based predictive mimicker for the constitutive model of engineered cementitious composites (ECC)

Umair Jalil Malik Sikandar Ali Khokhar Muhammad Hammad Rao Arsalan Khushnood Fawad Ahmed Najam Faizan Ali Muhammad Shahid
Construction and Building Materials , Volume 420, Article Number: 135530

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 8
DOI: [10.1016/j.conbuildmat.2024.135530](https://doi.org/10.1016/j.conbuildmat.2024.135530)

2024

Machine Learning-Based Predictive Model for Tensile and Flexural Strength of 3D-Printed Concrete

Ammar Ali Raja Dilawar Riaz Umair Jalil Malik Syed Baqar Abbas Muhammad Usman Mati Ullah Shah In-Ho Kim Asad Hanif Muhammad Faizan
Materials , Volume 16, Issue 11, Article Number 4149

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 41
DOI: <https://doi.org/10.3390/ma16114149>

2023

Enhancing Seismic Resilience of Existing Reinforced Concrete Building Using Non-Linear Viscous Dampers: A Comparative Study

Raja Dilawar Riaz Umair Jalil Malik Mati Ullah Shah Muhammad Usman Fawad Ahmed Najam
Actuators , Volume 12, Issue 4, Article Number 175

Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 16
DOI: <https://doi.org/10.3390/act12040175>

2023