

Pat Rajeev

List of Publications by Citations

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94
papers

1,393
citations

23
h-index

33
g-index

101
ext. papers

1,864
ext. citations

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avg. IF

5.6
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 94 | Durability of low-calcium fly ash based geopolymer concrete culvert in a saline environment. <i>Cement and Concrete Research</i> , 2017 , 100, 297-310 | 10.3 | 82 |
| 93 | Environmental challenges induced by extensive use of face masks during COVID-19: A review and potential solutions. <i>Environmental Challenges</i> , 2021 , 3, 100039 | 2.6 | 81 |
| 92 | Carbonation of a blended slag-fly ash geopolymer concrete in field conditions after 8 years. <i>Construction and Building Materials</i> , 2016 , 125, 661-669 | 6.7 | 73 |
| 91 | Yield stress criteria to assess the buildability of 3D concrete printing. <i>Construction and Building Materials</i> , 2020 , 240, 117989 | 6.7 | 62 |
| 90 | Seismic fragilities for reinforced concrete buildings with consideration of irregularities. <i>Structural Safety</i> , 2012 , 39, 1-13 | 4.9 | 51 |
| 89 | Distributed Optical Fibre Sensors and their Applications in Pipeline Monitoring. <i>Key Engineering Materials</i> , 2013 , 558, 424-434 | 0.4 | 49 |
| 88 | Seismic fragilities of non-ductile reinforced concrete frames with consideration of soil structure interaction. <i>Soil Dynamics and Earthquake Engineering</i> , 2012 , 40, 78-86 | 3.5 | 47 |
| 87 | Confidence Factor?. <i>Journal of Earthquake Engineering</i> , 2010 , 14, 989-1007 | 1.8 | 44 |
| 86 | Numerical analysis of an experimental pipe buried in swelling soil. <i>Computers and Geotechnics</i> , 2011 , 38, 897-904 | 4.4 | 43 |
| 85 | Direct shear test for the assessment of rheological parameters of concrete for 3D printing applications. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019 , 52, 1 | 3.4 | 38 |
| 84 | Fly ash-based boroaluminosilicate geopolymers: Experimental and molecular simulations. <i>Ceramics International</i> , 2017 , 43, 4119-4126 | 5.1 | 37 |
| 83 | Numerical study on the effects of diaphragm stiffness and strength on the seismic response of multi-story modular buildings. <i>Engineering Structures</i> , 2018 , 163, 25-37 | 4.7 | 37 |
| 82 | Alkali activated materials vs geopolymers: Role of boron as an eco-friendly replacement. <i>Construction and Building Materials</i> , 2017 , 146, 297-302 | 6.7 | 34 |
| 81 | Ground-Atmosphere interaction modelling for long-term prediction of soil moisture and temperature. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 1059-1073 | 3.2 | 31 |
| 80 | A void ratio-water content-net stress model for environmentally stabilized expansive soils. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 867-877 | 3.2 | 31 |
| 79 | Soil moisture monitoring at the field scale using neutron probe. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 332-345 | 3.2 | 30 |
| 78 | Review of performance requirements for inter-module connections in multi-story modular buildings. <i>Journal of Building Engineering</i> , 2020 , 28, 101087 | 5.2 | 28 |

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| 77 | Microstructural study of environmentally friendly boroaluminosilicate geopolymers. <i>Journal of Cleaner Production</i> , 2018 , 189, 805-812 | 10.3 | 27 |
| 76 | Equation to predict maximum pipe stress incorporating internal and external loadings on buried pipes. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 1315-1331 | 3.2 | 26 |
| 75 | Modelling of upheaval buckling of offshore pipeline buried in clay soil using genetic programming. <i>Engineering Structures</i> , 2015 , 101, 306-317 | 4.7 | 25 |
| 74 | Durability Performance of Precast Fly AshBased Geopolymer Concrete under Atmospheric Exposure Conditions. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018007 | 3 | 25 |
| 73 | Offshore pipeline performance evaluation by different artificial neural networks approaches. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 76, 117-128 | 4.6 | 24 |
| 72 | Vibration induced active rheology control for 3D concrete printing. <i>Cement and Concrete Research</i> , 2021 , 140, 106293 | 10.3 | 24 |
| 71 | Energy-based damage index for concentrically braced steel structure using continuous wavelet transform. <i>Journal of Constructional Steel Research</i> , 2014 , 103, 241-250 | 3.8 | 22 |
| 70 | Evaluation of defective sewer pipeInduced internal erosion and associated ground deformation using laboratory model test. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1184-1195 | 3.2 | 21 |
| 69 | Damage detection of in service timber poles using Hilbert-Huang transform. <i>NDT and E International</i> , 2019 , 107, 102141 | 4.1 | 20 |
| 68 | Monitoring of Pressure Transients in Water Supply Networks. <i>Water Resources Management</i> , 2016 , 30, 471-485 | 3.7 | 17 |
| 67 | Experimental Study on Contact Erosion Failure in Pavement Embankment with Dispersive Clay. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015179 | 3 | 17 |
| 66 | The influence of pipe embedment material on sinkhole formation due to erosion around defective sewers. <i>Transportation Geotechnics</i> , 2019 , 19, 110-125 | 4 | 16 |
| 65 | Interpretation of the loadingWetting behaviour of compacted soils within the MPK framework. Part II: Dynamic compaction. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 806-827 | 3.2 | 16 |
| 64 | Increased Accuracy of Vector-IM-Based Seismic Risk Assessment?. <i>Journal of Earthquake Engineering</i> , 2008 , 12, 111-124 | 1.8 | 16 |
| 63 | Determination of thermal diffusivity of soil using infrared thermal imaging. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 1295-1302 | 3.2 | 15 |
| 62 | Field performance of in-service cast iron water reticulation pipe buried in reactive clay. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 1861-1873 | 3.2 | 14 |
| 61 | Direct displacement-based seismic design of steel concentric braced frame structures. <i>Australian Journal of Structural Engineering</i> , 2012 , 13, | 1.4 | 14 |
| 60 | Stress-strain relationship of cement mortar under triaxial compression. <i>Construction and Building Materials</i> , 2019 , 220, 456-463 | 6.7 | 12 |

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| 59 | Application of stress wave propagation technique for condition assessment of timber poles. <i>Structure and Infrastructure Engineering</i> , 2019 , 15, 1234-1246 | 2.9 | 12 |
| 58 | Displacement profile for displacement based seismic design of concentric braced frames. <i>Journal of Constructional Steel Research</i> , 2019 , 155, 233-248 | 3.8 | 12 |
| 57 | Modelling of Climate Induced Moisture Variations and Subsequent Ground Movements in Expansive Soils. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 2455-2477 | 1.5 | 11 |
| 56 | Durability Performance of Concrete Structures Built with Low Carbon Construction Materials. <i>Energy Procedia</i> , 2016 , 88, 794-799 | 2.3 | 10 |
| 55 | Effect of Infill-Wall Material Types and Modeling Techniques on the Seismic Response of Reinforced Concrete Buildings. <i>Natural Hazards Review</i> , 2020 , 21, 04020031 | 3.5 | 9 |
| 54 | Effect of Topology Irregularities and Construction Quality on Life-Cycle Cost of Reinforced Concrete Buildings. <i>Journal of Earthquake Engineering</i> , 2013 , 17, 590-610 | 1.8 | 9 |
| 53 | A New Method for Developing Equations Applied to the Water Retention Curve. <i>Soil Science Society of America Journal</i> , 2012 , 76, 806-814 | 2.5 | 9 |
| 52 | The Use of Restrained Ring Test Method for Soil Desiccation Studies. <i>Geotechnical Testing Journal</i> , 2015 , 38, 20130131 | 1.3 | 9 |
| 51 | Estimating apparent thermal diffusivity of soil using field temperature time series. <i>Geomechanics and Geoengineering</i> , 2016 , 11, 28-46 | 1.4 | 8 |
| 50 | Condition assessment tool for timber utility poles using stress wave propagation technique. <i>Nondestructive Testing and Evaluation</i> , 2021 , 36, 336-356 | 2 | 8 |
| 49 | Mitigation of heat stress risks through building energy efficiency upgrade: a case study of Melbourne, Australia. <i>Australian Journal of Civil Engineering</i> , 2018 , 16, 64-78 | 1.8 | 8 |
| 48 | Effect of seismic and soil parameter uncertainties on seismic damage of buried segmented pipeline. <i>Transportation Geotechnics</i> , 2019 , 21, 100274 | 4 | 7 |
| 47 | The effect of chloride ingress in reinforced geopolymer concrete exposed in the marine environment. <i>Journal of Building Engineering</i> , 2021 , 39, 102281 | 5.2 | 7 |
| 46 | Effects of vertical irregularities and construction quality in seismic fragilities for reinforced concrete buildings. <i>International Journal of Earthquake and Impact Engineering</i> , 2017 , 2, 1 | 0.5 | 6 |
| 45 | Lateral Variation of the Vertical Stress in Underground Mine Stopes Filled with Granular Backfills. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 481-492 | 1.5 | 6 |
| 44 | Field Performance of In-Service Cast Iron Gas Reticulation Pipe Buried in Reactive Clay. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2016 , 7, 04015025 | 1.5 | 6 |
| 43 | Average Vertical Stresses in Underground Mine Stopes Filled with Granular Backfills. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 2053-2061 | 1.5 | 5 |
| 42 | Assessment of thermal cracking in concrete roof tiles. <i>Materials and Design</i> , 2016 , 107, 470-477 | 8.1 | 5 |

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| 41 | Damage Severity Estimation of Timber Poles Using Stress Wave Propagation and Wavelet Entropy Evolution. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2021 , 4, | 0.9 | 5 |
| 40 | Evaluation of alkalinity changes and carbonation of geopolymer concrete exposed to wetting and drying. <i>Journal of Building Engineering</i> , 2021 , 35, 102029 | 5.2 | 5 |
| 39 | Comparison of Rheology Measurement Techniques Used in 3D Concrete Printing Applications. <i>Lecture Notes in Civil Engineering</i> , 2021 , 261-273 | 0.3 | 5 |
| 38 | Extrusion rheometer for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2021 , 121, 104075 | 8.6 | 5 |
| 37 | Investigation of waste clay brick as partial replacement of geopolymer binders for rigid pavement application. <i>Construction and Building Materials</i> , 2021 , 305, 124787 | 6.7 | 5 |
| 36 | Suitable intensity measure for probabilistic seismic risk assessment of non-ductile Australian reinforced concrete buildings. <i>Bulletin of Earthquake Engineering</i> , 2019 , 17, 3753-3775 | 3.7 | 4 |
| 35 | Seismic Fragility Assessment of Non-ductile Reinforced Concrete Buildings in Australia. <i>Journal of Earthquake Engineering</i> , 2020 , 1-35 | 1.8 | 4 |
| 34 | Stabilizing Dispersive Soil Using Brown Coal Fly Ash and Hydrated Lime 2016 , | | 4 |
| 33 | Characterizing Extrudability for 3D Concrete Printing Using Discrete Element Simulations. <i>RILEM Bookseries</i> , 2020 , 290-300 | 0.5 | 4 |
| 32 | Non-destructive Techniques for Condition Assessment of Timber Utility Poles. <i>Lecture Notes in Civil Engineering</i> , 2020 , 941-951 | 0.3 | 4 |
| 31 | Effect of hysteretic steel damper uncertainty on seismic performance of steel buildings. <i>Journal of Constructional Steel Research</i> , 2019 , 157, 46-58 | 3.8 | 4 |
| 30 | Distributed optical fibre sensor for infrastructure monitoring: Field applications. <i>Optical Fiber Technology</i> , 2021 , 64, 102577 | 2.4 | 4 |
| 29 | Effect of brown coal fly ash on dispersive clayey soils. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2017 , 170, 231-244 | 1 | 3 |
| 28 | Contribution of Cement Mortar Lining to Structural Capacity of Cast Iron Water Mains. <i>ACI Materials Journal</i> , 2016 , 113, | 0.9 | 3 |
| 27 | Laboratory Model Test on Contact Erosion of Dispersive Soil Beneath Pavement Layers. <i>Geotechnical Testing Journal</i> , 2015 , 38, 20140179 | 1.3 | 3 |
| 26 | Automatic fault detection system for mining conveyor using distributed acoustic sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 187, 110330 | 4.6 | 3 |
| 25 | Predication of Strength-Based Failure in Extrusion-Based 3D Concrete Printing. <i>RILEM Bookseries</i> , 2020 , 391-399 | 0.5 | 3 |
| 24 | Residual stress-strain relationship for the biochar-based mortar after exposure to elevated temperature. <i>Case Studies in Construction Materials</i> , 2021 , 14, e00540 | 2.7 | 3 |

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| 23 | Field evaluation of in-service buried pipeline using robust instrumentation. <i>Transportation Geotechnics</i> , 2020 , 24, 100376 | 4 | 2 |
| 22 | A Modified Mohr-Coulomb Model to Simulate the Response of Buried Pipes Subjected to Large Ground Displacement 2016 , | | 2 |
| 21 | SEISMIC SLOPE FAILURE MODELLING USING THE MESH-FREE SPH METHOD. <i>International Journal of GEOMATE</i> , 2013 , | 1.6 | 2 |
| 20 | Deterioration Modelling of Timber Utility Poles. <i>Lecture Notes in Civil Engineering</i> , 2021 , 417-426 | 0.3 | 2 |
| 19 | Cyclic loading response of offshore pipelines using simple shear tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 130, 105991 | 3.5 | 2 |
| 18 | Structural health assessment techniques for in-service timber poles. <i>Structure and Infrastructure Engineering</i> , 1-21 | 2.9 | 2 |
| 17 | Health monitoring of timber poles using time-frequency analysis techniques and stress wave propagation. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 85-103 | 2.9 | 2 |
| 16 | Distributed optical fibre sensor for condition monitoring of mining conveyor using wavelet transform and artificial neural network. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2827 | 4.5 | 2 |
| 15 | Undrained Load-Displacement Behavior of Partially Embedded Pipeline on Seabed. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2016 , 7, 04015016 | 1.5 | 1 |
| 14 | Vulnerability Assessment of Underground Mine Stopes Filled with Granular Backfills 2016 , | | 1 |
| 13 | Effect of Irregular Seabed Profile on Upheaval Buckling of Buried Offshore Pipelines. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017 , 8, 04017017 | 1.5 | 1 |
| 12 | Closure to Experimental Study on Contact Erosion Failure in Pavement Embankment with Dispersive Clay By S. Premkumar, J. Piratheepan, A. Arulrajah, M. Disfani, and P. Rajeev. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 07016004 | 3 | 1 |
| 11 | Structural Health Assessment of Timber Utility Poles Using Stress Wave Propagation and Artificial Neural Network Techniques. <i>Journal of Nondestructive Evaluation</i> , 2021 , 40, 1 | 2.1 | 1 |
| 10 | Contact erosion initiated by clay dispersion beneath pavement layers. <i>Geomechanics and Geoengineering</i> , 2020 , 1-23 | 1.4 | 1 |
| 9 | Effects of operational loads on buried water pipes using field tests. <i>Tunnelling and Underground Space Technology</i> , 2022 , 124, 104463 | 5.7 | 1 |
| 8 | Waste Clay Brick Binders for Rigid Pavement Subbase and Base Concretes. <i>Lecture Notes in Civil Engineering</i> , 2022 , 903-917 | 0.3 | 0 |
| 7 | Fully-Modular Buildings Through a Proposed Inter-module Connection. <i>Lecture Notes in Civil Engineering</i> , 2021 , 303-312 | 0.3 | 0 |
| 6 | Stress-strain relationship of cement paste under triaxial compression. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 1-9 | 0.8 | 0 |

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| 5 | Effect of Insitu Moisture Content in Shrink-Swell Index. <i>Geotechnical and Geological Engineering</i> , 2020 , 38, 6385-6392 | 1.5 | 0 |
| 4 | Equivalent viscous damping for steel eccentrically braced frame structures with buckling restraint braces. <i>Innovative Infrastructure Solutions</i> , 2021 , 6, 1 | 2.3 | 0 |
| 3 | Waste Clay Bricks as a Geopolymer Binder for Pavement Construction. <i>Sustainability</i> , 2022 , 14, 6456 | 3.6 | 0 |
| 2 | Interaction analysis of waffle slabs supporting houses on expansive soil. <i>Innovative Infrastructure Solutions</i> , 2016 , 1, 1 | 2.3 | |
| 1 | Machine Learning Algorithms for Health Monitoring of Timber Utility Poles Using Stress Wave Propagation. <i>Lecture Notes in Civil Engineering</i> , 2021 , 739-748 | 0.3 | |