

Pat Rajeev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,393
citations

23
h-index

33
g-index

101
ext. papers

1,864
ext. citations

3.1
avg. IF

5.6
L-index

#	Paper	IF	Citations
94	Waste Clay Brick Binders for Rigid Pavement Subbase and Base Concretes. <i>Lecture Notes in Civil Engineering</i> , 2022 , 903-917	0.3	0
93	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
92	Effects of operational loads on buried water pipes using field tests. <i>Tunnelling and Underground Space Technology</i> , 2022 , 124, 104463	5.7	1
91	Waste Clay Bricks as a Geopolymer Binder for Pavement Construction. <i>Sustainability</i> , 2022 , 14, 6456	3.6	0
90	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
89	Fully-Modular Buildings Through a Proposed Inter-module Connection. <i>Lecture Notes in Civil Engineering</i> , 2021 , 303-312	0.3	0
88	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
87	Deterioration Modelling of Timber Utility Poles. <i>Lecture Notes in Civil Engineering</i> , 2021 , 417-426	0.3	2
86	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
85	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
84	Equivalent viscous damping for steel eccentrically braced frame structures with buckling restraint braces. <i>Innovative Infrastructure Solutions</i> , 2021 , 6, 1	2.3	0
83	Condition assessment tool for timber utility poles using stress wave propagation technique. <i>Nondestructive Testing and Evaluation</i> , 2021 , 36, 336-356	2	8
82	Health monitoring of timber poles using timefrequency analysis techniques and stress wave propagation. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 85-103	2.9	2
81	Vibration induced active rheology control for 3D concrete printing. <i>Cement and Concrete Research</i> , 2021 , 140, 106293	10.3	24
80	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
79	Comparison of Rheology Measurement Techniques Used in 3D Concrete Printing Applications. <i>Lecture Notes in Civil Engineering</i> , 2021 , 261-273	0.3	5
78	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	

77	Distributed optical fibre sensor for infrastructure monitoring: Field applications. <i>Optical Fiber Technology</i> , 2021 , 64, 102577	2.4	4
76	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
75	Extrusion rheometer for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2021 , 121, 104075	8.6	5
74	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
73	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
72	Field evaluation of in-service buried pipeline using robust instrumentation. <i>Transportation Geotechnics</i> , 2020 , 24, 100376	4	2
71	Seismic Fragility Assessment of Non-ductile Reinforced Concrete Buildings in Australia. <i>Journal of Earthquake Engineering</i> , 2020 , 1-35	1.8	4
70	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
69	Predication of Strength-Based Failure in Extrusion-Based 3D Concrete Printing. <i>RILEM Bookseries</i> , 2020 , 391-399	0.5	3
68	Characterizing Extrudability for 3D Concrete Printing Using Discrete Element Simulations. <i>RILEM Bookseries</i> , 2020 , 290-300	0.5	4
67	Non-destructive Techniques for Condition Assessment of Timber Utility Poles. <i>Lecture Notes in Civil Engineering</i> , 2020 , 941-951	0.3	4
66	Yield stress criteria to assess the buildability of 3D concrete printing. <i>Construction and Building Materials</i> , 2020 , 240, 117989	6.7	62
65	Cyclic loading response of offshore pipelines using simple shear tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 130, 105991	3.5	2
64	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
63	Contact erosion initiated by clay dispersion beneath pavement layers. <i>Geomechanics and Geoengineering</i> , 2020 , 1-23	1.4	1
62	Effect of Insitu Moisture Content in Shrink-Swell Index. <i>Geotechnical and Geological Engineering</i> , 2020 , 38, 6385-6392	1.5	0
61	Effect of seismic and soil parameter uncertainties on seismic damage of buried segmented pipeline. <i>Transportation Geotechnics</i> , 2019 , 21, 100274	4	7
60	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

59	Stress-strain relationship of cement mortar under triaxial compression. <i>Construction and Building Materials</i> , 2019 , 220, 456-463	6.7	12
58	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
57	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
56	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
55	Damage detection of in service timber poles using Hilbert-Huang transform. <i>NDT and E International</i> , 2019 , 107, 102141	4.1	20
54	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
53	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
52	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
51	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. <i>Journal of Cleaner Production</i> , 2018 , 189, 805-812	10.3	27
50	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
49	Durability Performance of Precast Fly Ash Based Geopolymer Concrete under Atmospheric Exposure Conditions. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018007	3	25
48	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
47	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
46	Evaluation of defective sewer pipe induced internal erosion and associated ground deformation using laboratory model test. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1184-1195	3.2	21
45	Fly ash-based boroaluminosilicate geopolymers: Experimental and molecular simulations. <i>Ceramics International</i> , 2017 , 43, 4119-4126	5.1	37
44	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
43	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
42	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

41	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
40	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
39	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
38	Vulnerability Assessment of Underground Mine Stopes Filled with Granular Backfills 2016 ,		1
37	A Modified Mohr-Coulomb Model to Simulate the Response of Buried Pipes Subjected to Large Ground Displacement 2016 ,		2
36	Stabilizing Dispersive Soil Using Brown Coal Fly Ash and Hydrated Lime 2016 ,		4
35	Average Vertical Stresses in Underground Mine Stopes Filled with Granular Backfills. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 2053-2061	1.5	5
34	Assessment of thermal cracking in concrete roof tiles. <i>Materials and Design</i> , 2016 , 107, 470-477	8.1	5
33	Monitoring of Pressure Transients in Water Supply Networks. <i>Water Resources Management</i> , 2016 , 30, 471-485	3.7	17
32	Interpretation of the loading/wetting behaviour of compacted soils within the MPK framework. Part II: Dynamic compaction. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 806-827	3.2	16
31	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
30	Estimating apparent thermal diffusivity of soil using field temperature time series. <i>Geomechanics and Geoengineering</i> , 2016 , 11, 28-46	1.4	8
29	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
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	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
26	Interaction analysis of waffle slabs supporting houses on expansive soil. <i>Innovative Infrastructure Solutions</i> , 2016 , 1, 1	2.3	
25	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
24	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

23	Durability Performance of Concrete Structures Built with Low Carbon Construction Materials. <i>Energy Procedia</i> , 2016 , 88, 794-799	2.3	10
22	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
21	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
20	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
19	The Use of Restrained Ring Test Method for Soil Desiccation Studies. <i>Geotechnical Testing Journal</i> , 2015 , 38, 20130131	1.3	9
18	Laboratory Model Test on Contact Erosion of Dispersive Soil Beneath Pavement Layers. <i>Geotechnical Testing Journal</i> , 2015 , 38, 20140179	1.3	3
17	Soil moisture monitoring at the field scale using neutron probe. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 332-345	3.2	30
16	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
15	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
14	Distributed Optical Fibre Sensors and their Applications in Pipeline Monitoring. <i>Key Engineering Materials</i> , 2013 , 558, 424-434	0.4	49
13	SEISMIC SLOPE FAILURE MODELLING USING THE MESH-FREE SPH METHOD. <i>International Journal of GEOMATE</i> , 2013 ,	1.6	2
12	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
11	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
10	Seismic fragilities for reinforced concrete buildings with consideration of irregularities. <i>Structural Safety</i> , 2012 , 39, 1-13	4.9	51
9	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
8	Direct displacement-based seismic design of steel concentric braced frame structures. <i>Australian Journal of Structural Engineering</i> , 2012 , 13,	1.4	14
7	A void ratio-water content-thet stress model for environmentally stabilized expansive soils. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 867-877	3.2	31
6	Determination of thermal diffusivity of soil using infrared thermal imaging. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 1295-1302	3.2	15

5	Numerical analysis of an experimental pipe buried in swelling soil. <i>Computers and Geotechnics</i> , 2011 , 38, 897-904	4.4	43
4	Confidence Factor?. <i>Journal of Earthquake Engineering</i> , 2010 , 14, 989-1007	1.8	44
3	Increased Accuracy of Vector-IM-Based Seismic Risk Assessment?. <i>Journal of Earthquake Engineering</i> , 2008 , 12, 111-124	1.8	16
2	Stress-strain relationship of cement paste under triaxial compression. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 1-9	0.8	0
1	Structural health assessment techniques for in-service timber poles. <i>Structure and Infrastructure Engineering</i> , 1-21	2.9	2