

Weena Lokuge

List of Publications by Year in descending order

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56
papers

1,331
citations

430754

18
h-index

360920

35
g-index

58
all docs

58
docs citations

58
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling of landfill wastes (tyres, plastics and glass) in construction – A review on global waste generation, performance, application and future opportunities. Resources, Conservation and Recycling, 2021, 173, 105745.	5.3	216
2	Free vibration of functionally graded-GPL reinforced composite plates with different boundary conditions. Aerospace Science and Technology, 2018, 78, 147-156.	2.5	134
3	Greenhouse gas emissions during timber and concrete building construction – A scenario based comparative case study. Sustainable Cities and Society, 2018, 38, 91-97.	5.1	90
4	Design of fly ash geopolymer concrete mix proportions using Multivariate Adaptive Regression Spline model. Construction and Building Materials, 2018, 166, 472-481.	3.2	89
5	Effect of fly ash on the behaviour of polymer concrete with different types of resin. Materials & Design, 2013, 51, 175-181.	5.1	83
6	Fibre-reinforced geopolymer concrete with ambient curing for in situ applications. Journal of Materials Science, 2014, 49, 4297-4304.	1.7	81
7	Stress–Strain Model for Laterally Confined Concrete. Journal of Materials in Civil Engineering, 2005, 17, 607-616.	1.3	70
8	Structural applications of fibre reinforced polymer (FRP) composite tubes: A review of columns members. Composite Structures, 2018, 204, 513-524.	3.1	60
9	Flexural behaviour of concrete slabs reinforced with GFRP bars and hollow composite reinforcing systems. Composite Structures, 2020, 236, 111836.	3.1	50
10	Effects of Light Crude Oil Contamination on the Physical and Mechanical Properties of Fine Sand. Soil and Sediment Contamination, 2015, 24, 833-845.	1.1	43
11	Characteristics, strength development and microstructure of cement mortar containing oil-contaminated sand. Construction and Building Materials, 2020, 252, 119155.	3.2	43
12	Influence of infill concrete strength on the flexural behaviour of pultruded GFRP square beams. Composite Structures, 2016, 145, 58-67.	3.1	36
13	Flexural behaviour of multi-celled GFRP composite beams with concrete infill: Experiment and theoretical analysis. Composite Structures, 2017, 159, 21-33.	3.1	30
14	Ductility enhancement of geopolymer concrete columns using fibre-reinforced polymer confinement. Journal of Composite Materials, 2016, 50, 1887-1896.	1.2	27
15	Effects of fibre orientation and layup on the mechanical properties of the pultruded glass fibre reinforced polymer tubes. Engineering Structures, 2019, 198, 109448.	2.6	27
16	Novel Analytical Method for Mix Design and Performance Prediction of High Calcium Fly Ash Geopolymer Concrete. Polymers, 2021, 13, 900.	2.0	21
17	Effects of light crude oil contamination on the physical and mechanical properties of geopolymer cement mortar. Cement and Concrete Composites, 2018, 90, 136-149.	4.6	20
18	Mechanical Properties of Macro Polypropylene Fibre-Reinforced Concrete. Polymers, 2021, 13, 4112.	2.0	20

#	ARTICLE	IF	CITATIONS
19	Oil Contaminated Sand: An Emerging and Sustainable Construction Material. <i>Procedia Engineering</i> , 2015, 118, 1119-1126.	1.2	19
20	Constitutive Model for Confined High Strength Concrete Subjected to Cyclic Loading. <i>Journal of Materials in Civil Engineering</i> , 2004, 16, 297-305.	1.3	16
21	Investigation on the properties of concrete with recycled polyethylene terephthalate (PET) granules as fine aggregate replacement. <i>Case Studies in Construction Materials</i> , 2022, 16, e00934.	0.8	15
22	Modelling glass fibre-reinforced polymer reinforced geopolymer concrete columns. <i>Structures</i> , 2019, 20, 813-821.	1.7	13
23	Physical and Mechanical Properties of Cement Mortar Containing Fine Sand Contaminated with Light Crude Oil. <i>Procedia Engineering</i> , 2016, 145, 250-258.	1.2	12
24	Behaviour of hollow pultruded GFRP square beams with different shear span-to-depth ratios. <i>Journal of Composite Materials</i> , 2016, 50, 2925-2940.	1.2	11
25	Performance of timber girders with end-notch: Experimental and numerical investigation. <i>Structures</i> , 2021, 29, 730-740.	1.7	11
26	Properties and structural behavior of concrete containing fine sand contaminated with light crude oil. <i>Construction and Building Materials</i> , 2018, 189, 1214-1231.	3.2	10
27	Behaviour of geopolymer concrete-filled pultruded GFRP short columns. <i>Journal of Composite Materials</i> , 2019, 53, 2555-2567.	1.2	10
28	Predicting the probability of failure of timber bridges using fault tree analysis. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 783-797.	2.0	8
29	Flexural behaviour of circular reinforced concrete columns strengthened by glass fibre reinforced polymer wrapping system. <i>Structures</i> , 2022, 38, 1326-1348.	1.7	8
30	Flexural behaviour of circular timber columns strengthened by glass fibre reinforced polymer wrapping system. <i>Structures</i> , 2022, 38, 1349-1367.	1.7	8
31	Fault tree analysis method for deterioration of timber bridges using an Australian case study. <i>Built Environment Project and Asset Management</i> , 2016, 6, 332-344.	0.9	5
32	Vulnerability of Floodways under Extreme Flood Events. <i>Natural Hazards Review</i> , 2016, 17, .	0.8	5
33	Mechanical properties of polymer concrete with different types of resin. , 2012, , 1147-1152.		5
34	Finite element based dynamic analysis of multilayer fibre composite sandwich plates with interlayer delaminations. <i>Advances in Aircraft and Spacecraft Science</i> , 2016, 3, 15-28.	0.5	5
35	Compressive Strength Characterization of Polyester Based Fillers. <i>Advanced Materials Research</i> , 0, 410, 32-35.	0.3	4
36	Vulnerability assessment of bridges subjected to extreme cyclonic events. <i>Natural Hazards</i> , 2020, 102, 401-417.	1.6	3

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37	Experimental and numerical analysis on the effectiveness of GFRP wrapping system on timber pile rehabilitation. <i>Case Studies in Construction Materials</i> , 2021, 15, e00552.	0.8	3
38	Experimental and numerical evaluation of the compression behaviour of GFRP-wrapped infill materials. <i>Case Studies in Construction Materials</i> , 2021, 15, e00654.	0.8	3
39	Quantitative assessment of flood discharges and floodway failures through cross-cultivation of advancement in knowledge and traditional practices. <i>International Journal of Disaster Resilience in the Built Environment</i> , 2018, 9, 435-456.	0.7	2
40	Role of structural analysis in floodway design process. <i>Australian Journal of Civil Engineering</i> , 2019, 17, 110-119.	0.6	2
41	Structural design of floodways under extreme flood loading. <i>International Journal of Disaster Resilience in the Built Environment</i> , 2020, 11, 535-555.	0.7	2
42	Numerical Investigation on Hollow Pultruded Fibre Reinforced Polymer Tube Columns. <i>Lecture Notes in Civil Engineering</i> , 2020, , 455-465.	0.3	2
43	Laboratory Evaluation of the Stress-Strain relationship of Permeable Concrete. <i>Advanced Materials Research</i> , 2011, 243-249, 3259-3262.	0.3	1
44	Investigation of Some Fundamental Properties of Permeable Concrete. <i>Advanced Materials Research</i> , 0, 487, 869-873.	0.3	1
45	Effect of skin-core debonding on the dynamic behaviour of GFRP composite beams. , 2013, ,		1
46	A mathematical model for complete stress-strain curve prediction of permeable concrete. , 2012, , 293-298.		1
47	Dynamic Behaviour of Debonded GFRP Composite Beams. <i>Journal of Multifunctional Composites</i> , 2013, 1, 113-122.	0.2	1
48	Mix design of fly ash based alkali activated concrete. , 2022, , 41-65.		1
49	Markov-based deterioration prediction and asset management of floodway structures. <i>Sustainable and Resilient Infrastructure</i> , 2022, 7, 789-802.	1.7	1
50	Modelling eccentrically loaded high-strength concrete columns. <i>Magazine of Concrete Research</i> , 2003, 55, 331-341.	0.9	0
51	Triaxial test results of high-strength concrete subjected to cyclic loading. <i>Magazine of Concrete Research</i> , 2003, 55, 321-329.	0.9	0
52	Predicting the Remaining Life of Timber Bridges. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 1-10.	0.3	0
53	Floodway Design Process Revisited. <i>Lecture Notes in Civil Engineering</i> , 2020, , 995-1006.	0.3	0
54	Performance of Bridges with Damaged Elements in Extreme Flood Events. <i>Lecture Notes in Civil Engineering</i> , 2020, , 407-418.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Flexural Behaviour of Functionally Graded-Graphene Reinforced Composite Plates. Lecture Notes in Civil Engineering, 2020, , 209-221.	0.3	0
56	Influence of Filler Properties on the Axial Behaviour of Pultruded FRP Tubes. Lecture Notes in Civil Engineering, 2022, , 508-516.	0.3	0