

# Priyan Mendis

## List of Publications by Year in descending order

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Version: 2024-02-01

221  
papers

7,411  
citations

66250

44  
h-index

78623

77  
g-index

221  
all docs

221  
docs citations

221  
times ranked

5767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pre-saturated lightweight sand on material properties of eco-friendly lightweight cementitious composites. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 561-579.	1.7	3
2	Design of prefabricated footing connection using a coupled hydro-mechanical finite element model. <i>Structural Concrete</i> , 2022, 23, 2669-2695.	1.5	2
3	Prefabricated Building Systems—Design and Construction. <i>Encyclopedia</i> , 2022, 2, 70-95.	2.4	23
4	Designing Post COVID-19 Buildings: Approaches for Achieving Healthy Buildings. <i>Buildings</i> , 2022, 12, 74.	1.4	46
5	A hybrid precast concrete stiffened wall substructure for residential construction on expansive soils. <i>Journal of Building Engineering</i> , 2022, 50, 104189.	1.6	1
6	Effect of wind speed and direction on facade fire spread in an isolated rectangular building. <i>Fire Safety Journal</i> , 2022, 129, 103570.	1.4	11
7	Construction Industry Transformation Through Modular Methods. , 2022, , 259-276.		2
8	Assessment of shear strength of reinforced concrete beams without shear reinforcement: A comparative study between codes of practice and artificial neural network. <i>Case Studies in Construction Materials</i> , 2022, 16, e01102.	0.8	6
9	Improving aerodynamic performance of tall buildings using facade openings at service floors. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 225, 104997.	1.7	4
10	Evaluation of inter-modular connection behaviour under lateral loads: An experimental and numerical study. <i>Journal of Constructional Steel Research</i> , 2022, 194, 107335.	1.7	5
11	Artificial intelligence and smart vision for building and construction 4.0: Machine and deep learning methods and applications. <i>Automation in Construction</i> , 2022, 141, 104440.	4.8	189
12	Prefabricated Composite Steel-Timber Stiffened Wall Systems with Post-Tensioning: Structural Analysis and Experimental Investigation under Vertical Axial Load. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	5
13	Nano-CSH modified high volume fly ash concrete: Early-age properties and environmental impact analysis. <i>Journal of Cleaner Production</i> , 2021, 286, 124924.	4.6	44
14	Effects of calcium formate on early-age strength and microstructure of high-volume fly ash cement systems. <i>Magazine of Concrete Research</i> , 2021, 73, 1283-1295.	0.9	3
15	Finite Element Modelling of Concentrated Anchorage Load in Early Age Concrete. <i>RILEM Bookseries</i> , 2021, , 289-299.	0.2	0
16	Treated Municipal Solid Waste (Biomass) Based Concrete Properties—Part I: State of the Art. <i>RILEM Bookseries</i> , 2021, , 295-304.	0.2	1
17	Treated Municipal Solid Waste (Biomass) Based Concrete Properties—Part II: Experimental Program. <i>RILEM Bookseries</i> , 2021, , 281-293.	0.2	1
18	Improving performance of additive manufactured (3D printed) concrete: A review on material mix design, processing, interlayer bonding, and reinforcing methods. <i>Structures</i> , 2021, 29, 1597-1609.	1.7	45

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19	Optimising the computational domain size in CFD simulations of tall buildings. <i>Heliyon</i> , 2021, 7, e06723.	1.4	39
20	A probabilistic approach for modelling bone fracture healing under Ilizarov circular fixator. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3466.	1.0	4
21	Engineering Performance of Concrete Incorporated with Recycled High-Density Polyethylene (HDPE)â€”A Systematic Review. <i>Polymers</i> , 2021, 13, 1885.	2.0	16
22	Flexural Capacity Prediction Model For Steel Fibre-Reinforced Concrete Beams. <i>International Journal of Concrete Structures and Materials</i> , 2021, 15, .	1.4	7
23	Residual stress-strain relationship for the biochar-based mortar after exposure to elevated temperature. <i>Case Studies in Construction Materials</i> , 2021, 14, e00540.	0.8	10
24	Development of cross laminated timber-cold-formed steel composite beam for floor system to sustainable modular building construction. <i>Structures</i> , 2021, 32, 681-690.	1.7	27
25	Aggregate Geometry Generation Method Using a Structured Light 3D Scanner, Spherical Harmonicsâ€”Based Geometry Reconstruction, and Placing Algorithms for Mesoscale Modeling of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	13
26	A review and comparison of design methods for raft substructures on expansive soils. <i>Journal of Building Engineering</i> , 2021, 41, 102737.	1.6	9
27	Influence of Building Shape on Wind-Driven Rain Exposure in Tall Buildings. <i>Journal of Architectural Engineering</i> , 2021, 27, 04021027.	0.8	6
28	Optimal time-dependent levels of weight-bearing for bone fracture healing under Ilizarov circular fixators. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104611.	1.5	9
29	Recycling of landfill wastes (tyres, plastics and glass) in construction â€” A review on global waste generation, performance, application and future opportunities. <i>Resources, Conservation and Recycling</i> , 2021, 173, 105745.	5.3	216
30	Feasibility of Using Leadâ€”Zinc Tailings to Produce Environmentally Friendly Ceramisite. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, 04021298.	1.3	1
31	Airborne and impact sound performance of modern lightweight timber buildings in the Australian construction industry. <i>Case Studies in Construction Materials</i> , 2021, 15, e00632.	0.8	9
32	Microstructural Investigation of High-Volume Fly Ash Composites Containing Nano-Calcium Silicate Hydrate Crystals. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	6
33	Structural applications of synthetic fibre reinforced cementitious composites: A review on material properties, fire behaviour, durability and structural performance. <i>Structures</i> , 2021, 34, 550-574.	1.7	20
34	A comparative study on minimum shear reinforcement provisions in codes of practice for reinforced concrete beams. <i>Case Studies in Construction Materials</i> , 2021, 15, e00617.	0.8	1
35	The Potential Use of Hypochlorous Acid and a Smart Prefabricated Sanitising Chamber to Reduce Occupation-Related COVID-19 Exposure. <i>Risk Management and Healthcare Policy</i> , 2021, Volume 14, 247-252.	1.2	14
36	Multi-Criteria Analysis of a Developed Prefabricated Footing System on Reactive Soil Foundation. <i>Energies</i> , 2021, 14, 7515.	1.6	3

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37	The effects of surfactants on properties of lightweight concrete foam. Magazine of Concrete Research, 2020, 72, 163-172.	0.9	13
38	Pedestrian Wind Comfort Study Using Computational Fluid Dynamic (CFD) Simulation. Lecture Notes in Civil Engineering, 2020, , 323-339.	0.3	1
39	Effect of Spiral Spacing and Concrete Strength on Behavior of GFRP-Reinforced Hollow Concrete Columns. Journal of Composites for Construction, 2020, 24, .	1.7	39
40	Simulating reactive soil and substructure interaction using a simplified hydro-mechanical finite element model dependent on soil saturation, suction and moisture-swelling relationship. Computers and Geotechnics, 2020, 119, 103359.	2.3	17
41	Use of fluid structure interaction technique for flash flood impact assessment of structural components. Journal of Flood Risk Management, 2020, 13, e12581.	1.6	6
42	Relationship between reactive soil movement and footing deflection: A coupled hydro-mechanical finite element modelling perspective. Computers and Geotechnics, 2020, 126, 103720.	2.3	10
43	Transversely isotropic elastic-plastic properties in thermal arc sprayed Al-Zn coating: a microporomechanics approach. Scientific Reports, 2020, 10, 11176.	1.6	1
44	Cohesive-strength properties versus porosity of cementitious materials. Construction and Building Materials, 2020, 258, 120376.	3.2	1
45	Impact of atmospheric boundary layer inhomogeneity in CFD simulations of tall buildings. Heliyon, 2020, 6, e04274.	1.4	17
46	Effect of roof to wall connection stiffness variations on the load sharing and hold-down forces of Australian timber-framed houses. Structures, 2020, 27, 141-150.	1.7	8
47	Microstructure and strength development of quaternary blend high-volume fly ash concrete. Journal of Materials Science, 2020, 55, 6441-6456.	1.7	23
48	Identification of transversely isotropy of calcium silicate hydrate using nanoindentation and finite element analysis. Construction and Building Materials, 2020, 261, 119900.	3.2	5
49	Comparison of wind uplift load sharing for Australian truss- and pitch-framed roof structures. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 204, 104246.	1.7	4
50	Relationship of Stiffness-Based Indentation Properties Using Continuous-Stiffness-Measurement Method. Materials, 2020, 13, 97.	1.3	6
51	Development limitations of compressive arch and catenary actions in reinforced concrete special moment resisting frames under column-loss scenarios. Structure and Infrastructure Engineering, 2020, 16, 1616-1634.	2.0	12
52	Large-scale experiment on the behaviour of concrete flat slabs subjected to standard fire. Journal of Building Engineering, 2020, 30, 101255.	1.6	10
53	Cohesive-strength homogenisation model of porous and non-porous materials using linear comparison composites and application. Scientific Reports, 2020, 10, 3425.	1.6	0
54	Comparison of optimal oriented facade integrated solar cooling systems in Australian climate zones. Solar Energy, 2020, 198, 385-398.	2.9	16

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55	The influence of ambient environmental conditions in detecting bridge concrete deck delamination using infrared thermography (IRT). <i>Structural Control and Health Monitoring</i> , 2020, 27, e2506.	1.9	34
56	Fire safety of composites in prefabricated buildings: From fibre reinforced polymer to textile reinforced concrete. <i>Composites Part B: Engineering</i> , 2020, 187, 107815.	5.9	80
57	Flexural Performance of Prefabricated Ultra-High-Strength Textile Reinforced Concrete (UHSTRC): An Experimental and Analytical Investigation. <i>Buildings</i> , 2020, 10, 68.	1.4	3
58	The Role of Physiological Loading on Bone Fracture Healing Under Ilizarov Circular Fixator: The Effects of Load Duration and Loading Frequency. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020, , 218-236.	0.5	1
59	Structural Health Monitoring of Bridges Using Advanced Non-destructive Testing Technique. <i>Lecture Notes in Civil Engineering</i> , 2020, , 963-972.	0.3	7
60	Multi-scale analysis on thermal properties of cement-based materials containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2020, 254, 119221.	3.2	15
61	Life cycle performance of Cross Laminated Timber mid-rise residential buildings in Australia. <i>Energy and Buildings</i> , 2020, 223, 110091.	3.1	61
62	Aggregate-Dependent Approach to Formulate and Predict Properties of High-Strength and Very-High-Strength Concrete. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	13
63	Novel energy-based rational for nominal ductility design of very-high strength concrete columns (>100â€MPa). <i>Engineering Structures</i> , 2019, 198, 109497.	2.6	8
64	Novel testing and characterization of GFRP bars in compression. <i>Construction and Building Materials</i> , 2019, 225, 1112-1126.	3.2	54
65	Performance of lightweight hemp concrete with alkali-activated cenosphere binders exposed to elevated temperature. <i>Construction and Building Materials</i> , 2019, 224, 158-172.	3.2	32
66	Assessment Method for Inelastic Higher Mode Effects in Outrigger Braced Tall Building Under Seismic Loads. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950024.	1.3	1
67	Prefabrication of substructures for single-detached dwellings on reactive soils: a review of existing systems and design challenges. <i>Australian Journal of Civil Engineering</i> , 2019, 17, 120-133.	0.6	13
68	An Investigation of Nanomechanical Properties of Materials using Nanoindentation and Artificial Neural Network. <i>Scientific Reports</i> , 2019, 9, 13189.	1.6	20
69	Structural behaviour of prefabricated stressed-skin engineered timber composite flooring systems. <i>Structures</i> , 2019, 22, 230-244.	1.7	6
70	New advancements, challenges and opportunities of multi-storey modular buildings â€“ A state-of-the-art review. <i>Engineering Structures</i> , 2019, 183, 883-893.	2.6	345
71	Axial performance of hollow concrete columns reinforced with GFRP composite bars with different reinforcement ratios. <i>Composite Structures</i> , 2019, 213, 153-164.	3.1	44
72	Condition assessment of concrete by hybrid non-destructive tests. <i>Journal of Civil Structural Health Monitoring</i> , 2019, 9, 339-351.	2.0	2

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73	Development and performance evaluation of large-scale auxetic protective systems for localised impulsive loads. <i>International Journal of Protective Structures</i> , 2019, 10, 390-417.	1.4	46
74	Ductility Design of Reinforced Very-High Strength Concrete Columns (100â€“150ÂMPa) Using Curvature and Energy-Based Ductility Indices. <i>International Journal of Concrete Structures and Materials</i> , 2019, 13, .	1.4	22
75	Novel modelling approach for evacuation strategies of tall towers - A case study of Lotus Tower. <i>Journal of Building Engineering</i> , 2019, 25, 100763.	1.6	9
76	Transforming Municipal Solid Waste into Construction Materials. <i>Sustainability</i> , 2019, 11, 2661.	1.6	21
77	Dependency Structure Matrix and Hierarchical Clustering based algorithm for optimum module identification in MEP systems. <i>Automation in Construction</i> , 2019, 104, 153-178.	4.8	28
78	Thermal Stresses of Concrete at Early Ages. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	11
79	Effects of dynamic loading on fracture healing under different locking compression plate configurations: A finite element study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 94, 74-85.	1.5	25
80	The Effects of Dynamic Loading on Bone Fracture Healing Under Ilizarov Circular Fixators. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	22
81	Bone fracture healing under Ilizarov fixator: Influence of fixator configuration, fracture geometry, and loading. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3199.	1.0	34
82	Nanomechanical properties of thermal arc sprayed coating using continuous stiffness measurement and artificial neural network. <i>Surface and Coatings Technology</i> , 2019, 366, 266-276.	2.2	12
83	Design and construction of the new library at China Agricultural University. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2019, 172, 29-36.	0.3	4
84	Effective use of Offsite Manufacturing for Public Infrastructure Projects in Australia. , 2019, , .		4
85	Study of Strain-Hardening Behaviour of Fibre-Reinforced Alkali-Activated Fly Ash Cement. <i>Materials</i> , 2019, 12, 4015.	1.3	2
86	Strength Development and Thermogravimetric Investigation of High-Volume Fly Ash Binders. <i>Materials</i> , 2019, 12, 3344.	1.3	16
87	Fire performance of maritime composites. , 2019, , 115-160.		0
88	Flexural behavior of geopolymer-concrete beams longitudinally reinforced with GFRP and steel hybrid reinforcements. <i>Engineering Structures</i> , 2019, 182, 141-152.	2.6	59
89	Compressive behavior of axially loaded circular hollow concrete columns reinforced with GFRP bars and spirals. <i>Construction and Building Materials</i> , 2019, 194, 12-23.	3.2	70
90	The effects of precursors on rheology and self-compactness of geopolymer concrete. <i>Magazine of Concrete Research</i> , 2019, 71, 557-566.	0.9	17

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91	Identification of the risk of blast-induced glass window failure in a complex environment. International Journal of Protective Structures, 2018, 9, 99-117.	1.4	2
92	Examination of alkali-activated material nanostructure during thermal treatment. Journal of Materials Science, 2018, 53, 9486-9503.	1.7	37
93	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. Journal of Cleaner Production, 2018, 189, 805-812.	4.6	33
94	Shear behaviour of geopolymer-concrete beams transversely reinforced with continuous rectangular GFRP composite spirals. Composite Structures, 2018, 187, 454-465.	3.1	47
95	Enhancing the strength of pre-made foams for foam concrete applications. Cement and Concrete Composites, 2018, 87, 164-171.	4.6	175
96	Fire resistance of a prefabricated bushfire bunker using aerated concrete panels. Construction and Building Materials, 2018, 174, 410-420.	3.2	24
97	Creep properties of cement and alkali activated fly ash materials using nanoindentation technique. Construction and Building Materials, 2018, 168, 547-555.	3.2	35
98	The Failure Behaviour of Reinforced Concrete Panels Under Far-field and Near-field Blast Effects. Structures, 2018, 14, 220-229.	1.7	22
99	Determining dynamic characteristics of high rise buildings using interferometric radar system. Engineering Structures, 2018, 164, 230-242.	2.6	8
100	Performance of high-strength concrete walls exposed to fire. Advances in Structural Engineering, 2018, 21, 1173-1182.	1.2	7
101	Integrated assessment of the use of recycled concrete aggregate replacing natural aggregate in structural concrete. Journal of Cleaner Production, 2018, 174, 591-604.	4.6	79
102	The Role of Locking Plate Stiffness in Bone Fracture Healing Stabilized by Far Cortical Locking Technique. International Journal of Computational Methods, 2018, 15, 1850024.	0.8	8
103	Structural behaviour of prefabricated load bearing braced composite timber wall system. Engineering Structures, 2018, 176, 555-568.	2.6	14
104	Stress-strain relationship for very-high strength concrete ( $>100$ MPa) confined by lateral reinforcement. Engineering Structures, 2018, 177, 795-808.	2.6	33
105	Design and Development of Weatherproof Seals for Prefabricated Construction: A Methodological Approach. Buildings, 2018, 8, 117.	1.4	12
106	Manufacturing, Modeling, Implementation and Evaluation of a Weatherproof Seal for Prefabricated Construction. Buildings, 2018, 8, 120.	1.4	10
107	Understanding failure and stress-strain behavior of very-high strength concrete ( $>100$ MPa) confined by lateral reinforcement. Construction and Building Materials, 2018, 189, 62-77.	3.2	30
108	Effect of fire-retardant ceram powder on the properties of phenolic-based GFRP composites. Composites Part B: Engineering, 2018, 155, 414-424.	5.9	37

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109	Role of Dynamic Loading on Early Stage of Bone Fracture Healing. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1768-1784.	1.3	41
110	Net incremental indirect external benefit of manufacturing recycled aggregate concrete. <i>Waste Management</i> , 2018, 78, 279-291.	3.7	16
111	Alkali activated slag foams: The effect of the alkali reaction on foam characteristics. <i>Journal of Cleaner Production</i> , 2017, 147, 330-339.	4.6	115
112	Regulating the chemical foaming reaction to control the porosity of geopolymer foams. <i>Materials and Design</i> , 2017, 120, 255-265.	3.3	116
113	Investigation of strength and hydration characteristics in nano-silica incorporated cement paste. <i>Cement and Concrete Composites</i> , 2017, 80, 17-30.	4.6	164
114	A sustainable application of recycled tyre crumbs as insulator in lightweight cellular concrete. <i>Journal of Cleaner Production</i> , 2017, 149, 925-935.	4.6	114
115	Experimental investigation of progressive collapse potential of ordinary and special moment-resisting reinforced concrete frames. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	18
116	Monitoring the Dynamic Behavior of The Merlynston Creek Bridge Using Interferometric Radar Sensors and Finite Element Modeling. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750003.	1.3	30
117	Detecting structural damage to bridge girders using radar interferometry and computational modelling. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1985.	1.9	38
118	Shear Rehabilitation of RC Deep Beams using NSM CFRP Anchor Bars. <i>MATEC Web of Conferences</i> , 2017, 103, 02010.	0.1	3
119	A probabilistic study of ground motion simulation for Bangkok soil. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1925-1943.	2.3	5
120	Pore characteristics in one-part mix geopolymers foamed by H <sub>2</sub> O <sub>2</sub> : The impact of mix design. <i>Materials and Design</i> , 2017, 130, 381-391.	3.3	139
121	Comparative assessment of embodied energy of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , 2017, 152, 406-419.	4.6	57
122	How does aluminium foaming agent impact the geopolymer formation mechanism?. <i>Cement and Concrete Composites</i> , 2017, 80, 277-286.	4.6	75
123	Structural performance of FCS wall subjected to axial load. <i>Construction and Building Materials</i> , 2017, 134, 185-198.	3.2	18
124	Assessment of a Pedestrian Bridge Dynamics Using Interferometric Radar System IBIS-FS. <i>Procedia Engineering</i> , 2017, 188, 33-40.	1.2	6
125	Thermal performance of calcium-rich alkali-activated materials: A microstructural and mechanical study. <i>Construction and Building Materials</i> , 2017, 153, 225-237.	3.2	29
126	Comparative assessment of the benefits associated with the absorption of CO <sub>2</sub> with the use of RCA in structural concrete. <i>Journal of Cleaner Production</i> , 2017, 158, 285-295.	4.6	7



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127	Methodology for the integrated assessment on the use of recycled concrete aggregate replacing natural aggregate in structural concrete. <i>Journal of Cleaner Production</i> , 2017, 166, 321-334.	4.6	56
128	The role of impairment of mesenchymal stem cell function in osteoporotic bone fracture healing. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2017, 40, 603-610.	1.4	10
129	Optimisation and financial analysis of an organic Rankine cycle cooling system driven by facade integrated solar collectors. <i>Applied Energy</i> , 2017, 185, 172-182.	5.1	27
130	Effects of Interior Partition Walls on Natural Period of High Rise Buildings. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1771006.	1.5	2
131	Shear Strengthening and Shear Repair of 2-Span Continuous RC Beams with CFRP Strips. <i>Journal of Composites for Construction</i> , 2017, 21, .	1.7	8
132	Compressive strength prediction of nano-silica incorporated cement systems based on a multiscale approach. <i>Materials and Design</i> , 2017, 115, 379-392.	3.3	59
133	Sustainable Shear Behaviour of 2-Span Continuous Reinforced Concrete T-Beams with CFRP Strips. <i>MATEC Web of Conferences</i> , 2017, 103, 02014.	0.1	1
134	Shear Behavior of Geopolymer Concrete Beams Reinforced with GFRP Bars. <i>ACI Structural Journal</i> , 2017, 114, .	0.3	24
135	SHEAR MECHANISM AND SHEAR STRENGTH PREDICTION OF REINFORCED CONCRETE T-BEAMS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	2
136	Effect of Large Negative Phase of Blast Loading on Structural Response of RC Elements. <i>MATEC Web of Conferences</i> , 2016, 47, 02015.	0.1	5
137	An Assessment of the Effectiveness of Tree-Based Models for Multi-Variate Flood Damage Assessment in Australia. <i>Water (Switzerland)</i> , 2016, 8, 282.	1.2	29
138	Innovative Flexible Structural System Using Prefabricated Modules. <i>Journal of Architectural Engineering</i> , 2016, 22, .	0.8	54
139	Influences of the volume fraction and shape of steel fibers on fiber-reinforced concrete subjected to dynamic loading – A review. <i>Engineering Structures</i> , 2016, 124, 405-417.	2.6	108
140	Rehabilitation of Continuous Reinforced Concrete Beams in Shear by External Bonding of Carbon Fiber Reinforced Polymer Strips for Sustainable Construction. <i>Key Engineering Materials</i> , 2016, 708, 49-58.	0.4	2
141	Behavior of concentrically loaded geopolymer-concrete circular columns reinforced longitudinally and transversely with GFRP bars. <i>Engineering Structures</i> , 2016, 117, 422-436.	2.6	160
142	Effects of phase change material roof layers on thermal performance of a residential building in Melbourne and Sydney. <i>Energy and Buildings</i> , 2016, 121, 152-158.	3.1	58
143	Influence of fracture geometry on bone healing under locking plate fixations: A comparison between oblique and transverse tibial fractures. <i>Medical Engineering and Physics</i> , 2016, 38, 1100-1108.	0.8	43
144	Fire performance of prefabricated modular units using organoclay/glass fibre reinforced polymer composite. <i>Construction and Building Materials</i> , 2016, 129, 204-215.	3.2	43

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145	Dynamic response of double skin façades under blast loads. <i>Engineering Structures</i> , 2016, 123, 155-165.	2.6	17
146	A BIM-GIS integration method in support of the assessment and 3D visualisation of flood damage to a building. <i>Journal of Spatial Science</i> , 2016, 61, 317-350.	1.0	73
147	Properties of cementitious mortar and concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2016, 120, 408-417.	3.2	152
148	Structural performance of recycled aggregate in CSP slab subjected to flexure load. <i>Construction and Building Materials</i> , 2016, 115, 669-680.	3.2	10
149	The relationship between interfragmentary movement and cell differentiation in early fracture healing under locking plate fixation. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 123-133.	1.4	43
150	Financial assessment of manufacturing recycled aggregate concrete in ready-mix concrete plants. <i>Resources, Conservation and Recycling</i> , 2016, 109, 187-201.	5.3	53
151	A framework for a microscale flood damage assessment and visualization for a building using BIM-GIS integration. <i>International Journal of Digital Earth</i> , 2016, 9, 363-386.	1.6	105
152	Behaviour of Multi-Storey Prefabricated Modular Buildings under seismic loads. <i>Earthquake and Structures</i> , 2016, 11, 1061-1076.	1.0	45
153	FINITE ELEMENT MODELLING OF 2-SPAN CONTINUOUS RC BEAMS SHEAR STRENGTHENED AND SHEAR REPAIRED WITH CFRP STRIPS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	0
154	Use of Coupled Smooth-Particle Hydrodynamics/Lagrangian Method in the Simulation of Deformable Projectile Penetration. <i>International Journal of Protective Structures</i> , 2015, 6, 419-437.	1.4	5
155	Analytical and numerical investigation of polyurea layered aluminium plates subjected to high velocity projectile impact. <i>Materials and Design</i> , 2015, 82, 1-17.	3.3	73
156	Investigations of Cavity Pressure Behaviors of Double-Skin Façade Systems Subjected to Blast Loads. <i>Journal of Performance of Constructed Facilities</i> , 2015, 29, .	1.0	3
157	Post-yield capacity of cold-formed channel sections in bending. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2015, 168, 251-262.	0.4	1
158	Numerical simulation of structural responses to a far-field explosion. <i>Australian Journal of Structural Engineering</i> , 2015, 16, 226-236.	0.4	8
159	Failure modes and buckling coefficient of partially stiffened cold-formed sections in bending. <i>Journal of Constructional Steel Research</i> , 2015, 111, 21-30.	1.7	5
160	Influences of clay and manufacturing on fire resistance of organoclay/thermoset nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 74, 26-37.	3.8	39
161	Aerodynamic instability performance of twin box girders for long-span bridges. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 196-208.	1.7	51
162	Evaluation of the flexural strength and serviceability of geopolymer concrete beams reinforced with glass-fibre-reinforced polymer (GFRP) bars. <i>Engineering Structures</i> , 2015, 101, 529-541.	2.6	120

#	ARTICLE	IF	CITATIONS
163	Quantification of the Blast-Loading Parameters of Large-Scale Explosions. Journal of Structural Engineering, 2015, 141, .	1.7	8
164	Computational simulation of the early stage of bone healing under different configurations of locking compression plates. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 900-913.	0.9	44
165	Practical countermeasures for the aerodynamic performance of long-span cable-stayed bridges with open decks. Wind and Structures, an International Journal, 2015, 21, 223-239.	0.8	22
166	ENERGY OPTIMIZED WIRELESS SENSOR NETWORK FOR MONITORING INSIDE BUILDINGS: THEORETICAL MODEL AND EXPERIMENTAL ANALYSIS. Progress in Electromagnetics Research M, 2014, 37, 11-20.	0.5	4
167	Computational Simulation of Mechanical Microenvironment of Early Stage of Bone Healing under Locking Compression Plate with Dynamic Locking Screws. Applied Mechanics and Materials, 2014, 553, 281-286.	0.2	9
168	Underwater Impulsive Loading-Induced Dynamic Failures of Monolithic Composite Panel. Applied Mechanics and Materials, 2014, 553, 539-544.	0.2	3
169	Section classifications for cold-formed channel steel. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2014, 167, 426-435.	0.4	2
170	Experimental and computational investigations on fire resistance of GFRP composite for building facade. Composites Part B: Engineering, 2014, 62, 218-229.	5.9	68
171	Plastic deformation of polyurea coated composite aluminium plates subjected to low velocity impact. Materials & Design, 2014, 56, 696-713.	5.1	87
172	Strain rate dependent constitutive model for predicting the material behaviour of polyurea under high strain rate tensile loading. Materials & Design, 2014, 53, 830-837.	5.1	91
173	Effects of architecture on ballistic resistance of textile fabrics: Numerical study. International Journal of Damage Mechanics, 2014, 23, 359-376.	2.4	57
174	Bio-inspired composite structures subjected to underwater impulsive loading. Computational Materials Science, 2014, 82, 134-139.	1.4	83
175	Influence of ambient temperature on early age concrete behaviour of anchorage zones. Construction and Building Materials, 2014, 53, 1-12.	3.2	12
176	Time-Efficient Post-Disaster Housing Reconstruction with Prefabricated Modular Structures. Open House International, 2014, 39, 59-69.	0.6	40
177	Out-of-plane impact resistance of aluminium plates subjected to low velocity impacts. Materials & Design, 2013, 50, 413-426.	5.1	46
178	Polyurea coated composite aluminium plates subjected to high velocity projectile impact. Materials & Design, 2013, 52, 1-16.	5.1	121
179	Modelling of nano-silica in cement paste. Proceedings of SPIE, 2013, , .	0.8	3
180	Performance of Simplified Damage Assessment Tools for Reinforced Concrete Panels under Blast Loading. Key Engineering Materials, 2013, 594-595, 492-497.	0.4	0

#	ARTICLE	IF	CITATIONS
181	On the Compression Behavior of an Austenitic Fe <sup>18</sup> Mn <sup>0.6</sup> C <sup>1.5</sup> Al <sup>1</sup> Twinning Induced Plasticity Steel. <i>Steel Research International</i> , 2013, 84, 1281-1287.	1.0	6
182	A Rate Dependent Stress-Strain Relationship Model for Normal, High and Ultra-High Strength Concrete. <i>International Journal of Protective Structures</i> , 2013, 4, 451-466.	1.4	22
183	Effects of cyclic loading on the long-term deflection of prestressed concrete beams. <i>Computers and Concrete</i> , 2013, 12, 739-754.	0.7	11
184	The Effects of Flexible Fixation on Early Stage Bone Fracture Healing. <i>International Journal of Aerospace and Lightweight Structures (IJALS)</i> , 2013, 3, 181.	0.1	11
185	Estimation of dynamic response of structural elements subject to blast and impact actions using a simple unified approach. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2012, 5, 117-127.	0.4	1
186	Estimating early-age in situ strength development of concrete slabs. <i>Construction and Building Materials</i> , 2012, 29, 659-666.	3.2	37
187	Life cycle greenhouse gas emissions and energy analysis of prefabricated reusable building modules. <i>Energy and Buildings</i> , 2012, 47, 159-168.	3.1	337
188	Role of chemical and mechanical stimuli in mediating bone fracture healing. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2012, 39, 706-710.	0.9	38
189	High-strength rice husk ash concrete incorporating quarry dust as a partial substitute for sand. <i>Construction and Building Materials</i> , 2011, 25, 3123-3130.	3.2	105
190	Behavior of FRP-RC Slabs under Multiple Independent Air Blasts. <i>Journal of Performance of Constructed Facilities</i> , 2011, 25, 433-440.	1.0	26
191	Analysis of Biological Effect of AC-DC Electromagnetic Fields using the Lorenz Model. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2011, , 31-53.	0.2	0
192	Finite Element Simulation of FRP Strengthened Reinforced Concrete Slabs under Two Independent Air Blasts. <i>International Journal of Protective Structures</i> , 2010, 1, 469-488.	1.4	16
193	Measurement and analysis of electromagnetic fields from trams, trains and hybrid cars. <i>Radiation Protection Dosimetry</i> , 2010, 141, 255-268.	0.4	53
194	Experiences of Deploying an Indoor Building Sensor Network. , 2009, , .		11
195	Comparison Between Two Models for Interactions Between Electric and Magnetic Fields and Proteins in Cell Membranes. <i>Environmental Engineering Science</i> , 2009, 26, 1473-1480.	0.8	15
196	Modelling the dynamic response and failure modes of reinforced concrete structures subjected to blast and impact loading. <i>Structural Engineering and Mechanics</i> , 2009, 32, 269-282.	1.0	9
197	Ventilation Efficiency and Carbon Dioxide (CO <sub>2</sub> ) Concentration. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2009, 5, 637-640.	0.4	4
198	A new perspective on representative parameters for cellular concrete. <i>Magazine of Concrete Research</i> , 2008, 60, 79-83.	0.9	6

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199	Behavior of Ultrahigh-Strength Prestressed Concrete Panels Subjected to Blast Loading. Journal of Structural Engineering, 2007, 133, 1582-1590.	1.7	128
200	Engineering properties of inorganic polymer concretes (IPCs). Cement and Concrete Research, 2007, 37, 251-257.	4.6	370
201	Progressive Collapse Analysis of RC Frames Subjected to Blast Loading. Australian Journal of Structural Engineering, 2006, 7, 47-55.	0.4	8
202	New Method to Evaluate the Biaxial Interaction Exponent for RC Columns. Journal of Structural Engineering, 2005, 131, 1926-1930.	1.7	3
203	Interior wide beam connections subjected to lateral earthquake loading. Engineering Structures, 2003, 25, 281-291.	2.6	32
204	Design of high-strength concrete members: state-of-the-art. Structural Control and Health Monitoring, 2003, 5, 1-15.	0.7	32
205	Performance of interior post-tensioned concrete wide beams when subjected to lateral earthquake loading. Australian Journal of Structural Engineering, 2003, 5, 47-59.	0.4	0
206	Plastic Hinge Lengths of Normal and High-Strength Concrete in Flexure. Advances in Structural Engineering, 2002, 4, 189-195.	1.2	53
207	Concrete high-rise buildings subjected to blast loading and aircraft impact. , 2002, , .		0
208	Warping analysis of concrete cores. Structural Design of Tall Buildings, 2001, 10, 43-52.	0.3	7
209	A study of simplified design methods for plain concrete walls. Structural Concrete, 2001, 2, 15-19.	1.5	0
210	Bond Strength of Reinforcement in High-Strength Concrete. Advances in Structural Engineering, 2000, 3, 245-253.	1.2	7
211	Performance of reinforced concrete frames using force and displacement based seismic assessment methods. Engineering Structures, 2000, 22, 352-363.	2.6	19
212	Softening of Normal Strength and High-Strength Concrete Frames. Advances in Structural Engineering, 2000, 3, 109-117.	1.2	4
213	Load Testing to Collapse Limit State of Barr Creek Bridge. Transportation Research Record, 2000, 1696, 92-102.	1.0	12
214	Applicability of Current ACI318 Wall Design Formula for High Strength Concrete Walls. Advances in Structural Engineering, 1999, 2, 103-108.	1.2	8
215	Instability Analysis of Normal- and High-Strength Reinforced-Concrete Walls. Journal of Structural Engineering, 1997, 123, 680-684.	1.7	17
216	Stability Analysis of Softening Frames. Journal of Structural Engineering, 1988, 114, 1057-1072.	1.7	4

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217	Elasticâ€Plasticâ€Softening Analysis of Plane Frames. Journal of Structural Engineering, 1985, 111, 871-888.	1.7	38
218	Curvature Ductility of Concrete Element under High Strain-Rates. Applied Mechanics and Materials, 0, 166-169, 2910-2917.	0.2	2
219	Effect of Textile Architecture on Energy Absorption of Woven Fabrics Subjected to Ballistic Impact. Applied Mechanics and Materials, 0, 553, 757-762.	0.2	16
220	Monitoring the Dynamic Behaviour of Concrete Bridges Using Non-Contact Sensors (IBIS-S). Applied Mechanics and Materials, 0, 846, 225-230.	0.2	10
221	An Optimized Prefabricated Raft Footing System for Houses on Shrink-Swell Soils: Preliminary Results. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , 59-66.	0.0	4