

Tuan D Ngo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7100385/publications.pdf>

Version: 2024-02-01

233
papers

16,839
citations

20815

60
h-index

17104

122
g-index

234
all docs

234
docs citations

234
times ranked

13235
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. Composites Part B: Engineering, 2018, 143, 172-196.	12.0	4,756
2	Auxetic metamaterials and structures: a review. Smart Materials and Structures, 2018, 27, 023001.	3.5	657
3	New advancements, challenges and opportunities of multi-storey modular buildings – A state-of-the-art review. Engineering Structures, 2019, 183, 883-893.	5.3	345
4	Life cycle greenhouse gas emissions and energy analysis of prefabricated reusable building modules. Energy and Buildings, 2012, 47, 159-168.	6.7	337
5	Blast resistance of auxetic and honeycomb sandwich panels: Comparisons and parametric designs. Composite Structures, 2018, 183, 242-261.	5.8	298
6	A numerical study of auxetic composite panels under blast loadings. Composite Structures, 2016, 135, 339-352.	5.8	284
7	Impact and close-in blast response of auxetic honeycomb-cored sandwich panels: Experimental tests and numerical simulations. Composite Structures, 2017, 180, 161-178.	5.8	265
8	A modified firefly algorithm-artificial neural network expert system for predicting compressive and tensile strength of high-performance concrete. Construction and Building Materials, 2018, 180, 320-333.	7.2	247
9	Bimaterial 3D printing and numerical analysis of bio-inspired composite structures under in-plane and transverse loadings. Composites Part B: Engineering, 2017, 108, 210-223.	12.0	197
10	Three-dimensional modelling of auxetic sandwich panels for localised impact resistance. Journal of Sandwich Structures and Materials, 2017, 19, 291-316.	3.5	183
11	Enhancing the strength of pre-made foams for foam concrete applications. Cement and Concrete Composites, 2018, 87, 164-171.	10.7	175
12	Performance Review of Prefabricated Building Systems and Future Research in Australia. Buildings, 2019, 9, 38.	3.1	170
13	Computer Vision Techniques in Construction: A Critical Review. Archives of Computational Methods in Engineering, 2021, 28, 3383-3397.	10.2	170
14	Deep neural network with high-order neuron for the prediction of foamed concrete strength. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 316-332.	9.8	167
15	Investigation of strength and hydration characteristics in nano-silica incorporated cement paste. Cement and Concrete Composites, 2017, 80, 17-30.	10.7	164
16	A novel three-variable shear deformation plate formulation: Theory and Isogeometric implementation. Computer Methods in Applied Mechanics and Engineering, 2017, 326, 376-401.	6.6	163
17	A review on modular construction for high-rise buildings. Structures, 2020, 28, 1265-1290.	3.6	161
18	Impact of Australia's catastrophic 2019/20 bushfire season on communities and environment. Retrospective analysis and current trends. Journal of Safety Science and Resilience, 2020, 1, 44-56.	2.3	158

#	ARTICLE	IF	CITATIONS
19	Properties of cementitious mortar and concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2016, 120, 408-417.	7.2	152
20	Deformation of polyurea-coated steel plates under localised blast loading. <i>International Journal of Impact Engineering</i> , 2013, 51, 13-22.	5.0	141
21	Experimental and numerical investigation of influence of air-voids on the compressive behaviour of foamed concrete. <i>Materials and Design</i> , 2017, 130, 103-119.	7.0	140
22	Pore characteristics in one-part mix geopolymers foamed by H ₂ O ₂ : The impact of mix design. <i>Materials and Design</i> , 2017, 130, 381-391.	7.0	139
23	Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. <i>Materials and Design</i> , 2018, 139, 336-342.	7.0	132
24	Thermal and mechanical stability of functionally graded carbon nanotubes (FG CNT)-reinforced composite truncated conical shells surrounded by the elastic foundations. <i>Thin-Walled Structures</i> , 2017, 115, 300-310.	5.3	131
25	Behavior of Ultrahigh-Strength Prestressed Concrete Panels Subjected to Blast Loading. <i>Journal of Structural Engineering</i> , 2007, 133, 1582-1590.	3.4	128
26	Effects of surface treatments of recycled tyre crumb on cement-rubber bonding in concrete composite foam. <i>Construction and Building Materials</i> , 2018, 171, 467-473.	7.2	127
27	Transport sustainability index: Melbourne case study. <i>Ecological Indicators</i> , 2014, 43, 288-296.	6.3	123
28	Auxetic nail: Design and experimental study. <i>Composite Structures</i> , 2018, 184, 288-298.	5.8	123
29	Polyurea coated composite aluminium plates subjected to high velocity projectile impact. <i>Materials & Design</i> , 2013, 52, 1-16.	5.1	121
30	Regulating the chemical foaming reaction to control the porosity of geopolymer foams. <i>Materials and Design</i> , 2017, 120, 255-265.	7.0	116
31	Alkali activated slag foams: The effect of the alkali reaction on foam characteristics. <i>Journal of Cleaner Production</i> , 2017, 147, 330-339.	9.3	115
32	A sustainable application of recycled tyre crumbs as insulator in lightweight cellular concrete. <i>Journal of Cleaner Production</i> , 2017, 149, 925-935.	9.3	114
33	An artificial neural network (ANN) expert system enhanced with the electromagnetism-based firefly algorithm (EFA) for predicting the energy consumption in buildings. <i>Energy</i> , 2020, 190, 116370.	8.8	113
34	New approach to study nonlinear dynamic response and vibration of sandwich composite cylindrical panels with auxetic honeycomb core layer. <i>Aerospace Science and Technology</i> , 2017, 70, 396-404.	4.8	112
35	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.	7.2	105
36	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.	3.9	105

#	ARTICLE	IF	CITATIONS
37	Glass waste versus sand as aggregates: The characteristics of the evolving geopolymer binders. <i>Journal of Cleaner Production</i> , 2018, 193, 593-603.	9.3	104
38	Sustainable one-part geopolymer foams with glass fines versus sand as aggregates. <i>Construction and Building Materials</i> , 2018, 171, 223-231.	7.2	100
39	A micromechanical investigation for the effects of pore size and its distribution on geopolymer foam concrete under uniaxial compression. <i>Engineering Fracture Mechanics</i> , 2019, 209, 228-244.	4.3	98
40	Experimental investigation on the tensile behavior of polyurea at high strain rates. <i>Materials & Design</i> , 2013, 50, 124-129.	5.1	96
41	Influences of weaving architectures on the impact resistance of multi-layer fabrics. <i>Materials and Design</i> , 2015, 85, 282-295.	7.0	95
42	Inspiration from Nature's body armours – A review of biological and bioinspired composites. <i>Composites Part B: Engineering</i> , 2021, 205, 108513.	12.0	94
43	A state-of-the-art review on the durability of geopolymer concrete for sustainable structures and infrastructure. <i>Construction and Building Materials</i> , 2021, 291, 123381.	7.2	93
44	Strain rate dependent constitutive model for predicting the material behaviour of polyurea under high strain rate tensile loading. <i>Materials & Design</i> , 2014, 53, 830-837.	5.1	91
45	Concrete-filled steel tubular columns: Test database, design and calibration. <i>Journal of Constructional Steel Research</i> , 2019, 157, 161-181.	3.9	91
46	Plastic deformation of polyurea coated composite aluminium plates subjected to low velocity impact. <i>Materials & Design</i> , 2014, 56, 696-713.	5.1	87
47	Influence of hydrogen-enhanced plasticity and decohesion mechanisms of hydrogen embrittlement on the fracture resistance of steel. <i>Engineering Failure Analysis</i> , 2021, 123, 105312.	4.0	85
48	Bio-inspired composite structures subjected to underwater impulsive loading. <i>Computational Materials Science</i> , 2014, 82, 134-139.	3.0	83
49	3D meso-scale modelling of foamed concrete based on X-ray Computed Tomography. <i>Construction and Building Materials</i> , 2018, 188, 583-598.	7.2	83
50	Nonlinear dynamic response and vibration of functionally graded carbon nanotube-reinforced composite (FG-CNTRC) shear deformable plates with temperature-dependent material properties and surrounded on elastic foundations. <i>Journal of Thermal Stresses</i> , 2017, 40, 1254-1274.	2.0	78
51	Sensor-based safety management. <i>Automation in Construction</i> , 2020, 113, 103128.	9.8	78
52	An RNA virus hijacks an incognito function of a DNA repair enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14634-14639.	7.1	77
53	How does aluminium foaming agent impact the geopolymer formation mechanism?. <i>Cement and Concrete Composites</i> , 2017, 80, 277-286.	10.7	75
54	Real-time monitoring of construction sites: Sensors, methods, and applications. <i>Automation in Construction</i> , 2022, 136, 104099.	9.8	74

#	ARTICLE	IF	CITATIONS
55	Analytical and numerical investigation of polyurea layered aluminium plates subjected to high velocity projectile impact. <i>Materials and Design</i> , 2015, 82, 1-17.	7.0	73
56	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.	1.5	73
57	Elastomeric Polymers for Retrofitting of Reinforced Concrete Structures against the Explosive Effects of Blast. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-8.	1.8	69
58	Experimental and computational investigations on fire resistance of GFRP composite for building facade. <i>Composites Part B: Engineering</i> , 2014, 62, 218-229.	12.0	68
59	Enhancing building energy efficiency by adaptive facade: A computational optimization approach. <i>Applied Energy</i> , 2020, 265, 114797.	10.1	67
60	Mechanical and thermal stability of eccentrically stiffened functionally graded conical shell panels resting on elastic foundations and in thermal environment. <i>Composite Structures</i> , 2015, 132, 597-609.	5.8	66
61	A novel hybrid method combining electromagnetism-like mechanism and firefly algorithms for constrained design optimization of discrete truss structures. <i>Computers and Structures</i> , 2019, 212, 20-42.	4.4	62
62	Integrated proteomic and transcriptomic analysis of the <i>Aedes aegypti</i> eggshell. <i>BMC Developmental Biology</i> , 2014, 14, 15.	2.1	61
63	Life cycle performance of Cross Laminated Timber mid-rise residential buildings in Australia. <i>Energy and Buildings</i> , 2020, 223, 110091.	6.7	61
64	A polytree-based adaptive polygonal finite element method for multi-material topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 332, 712-739.	6.6	60
65	Effect of recycled glass fines on mechanical and durability properties of concrete foam in comparison with traditional cementitious fines. <i>Cement and Concrete Composites</i> , 2019, 99, 120-129.	10.7	60
66	Compressive strength prediction of nano-silica incorporated cement systems based on a multiscale approach. <i>Materials and Design</i> , 2017, 115, 379-392.	7.0	59
67	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.	6.7	58
68	Building Information Modelling for High-Rise Land Administration. <i>Transactions in GIS</i> , 2017, 21, 91-113.	2.3	58
69	Effects of architecture on ballistic resistance of textile fabrics: Numerical study. <i>International Journal of Damage Mechanics</i> , 2014, 23, 359-376.	4.2	57
70	Nonlinear dynamic analysis of Sigmoid functionally graded circular cylindrical shells on elastic foundations using the third order shear deformation theory in thermal environments. <i>International Journal of Mechanical Sciences</i> , 2015, 101-102, 338-348.	6.7	57
71	Vision-based automated crack detection using convolutional neural networks for condition assessment of infrastructure. <i>Structural Health Monitoring</i> , 2021, 20, 2124-2142.	7.5	56
72	Interfacial chemistry of a fly ash geopolymer and aggregates. <i>Journal of Cleaner Production</i> , 2019, 231, 980-989.	9.3	55

#	ARTICLE	IF	CITATIONS
73	Innovative Flexible Structural System Using Prefabricated Modules. <i>Journal of Architectural Engineering</i> , 2016, 22, .	1.6	54
74	High strength/density ratio in a syntactic foam made from one-part mix geopolymer and cenospheres. <i>Composites Part B: Engineering</i> , 2019, 173, 106908.	12.0	53
75	Novel lightweight high-energy absorbing auxetic structures guided by topology optimisation. <i>International Journal of Mechanical Sciences</i> , 2021, 211, 106793.	6.7	52
76	Nonlinear dynamic response and vibration of imperfect shear deformable functionally graded plates subjected to blast and thermal loads. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 318-329.	2.6	51
77	Feasibility study to estimate the environmental benefits of utilising timber to construct high-rise buildings in Australia. <i>Building and Environment</i> , 2019, 147, 108-120.	6.9	51
78	Nonlinear dynamic analysis and vibration of shear deformable eccentrically stiffened S-FGM cylindrical panels with metal-ceramic-metal layers resting on elastic foundations. <i>Composite Structures</i> , 2015, 126, 16-33.	5.8	50
79	Experimental investigation and simplified modeling of response of steel plates subjected to close-in blast loading from spherical liquid explosive charges. <i>International Journal of Impact Engineering</i> , 2017, 101, 78-89.	5.0	50
80	Three-dimensional Voronoi model of a nacre-mimetic composite structure under impulsive loading. <i>Composite Structures</i> , 2016, 153, 278-296.	5.8	47
81	Investigation of the auxetic oval structure for energy absorption through quasi-static and dynamic experiments. <i>International Journal of Impact Engineering</i> , 2021, 147, 103741.	5.0	47
82	Out-of-plane impact resistance of aluminium plates subjected to low velocity impacts. <i>Materials & Design</i> , 2013, 50, 413-426.	5.1	46
83	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.	2.3	46
84	Numerical simulations of response of tubular steel beams to close-range explosions. <i>Journal of Constructional Steel Research</i> , 2015, 105, 151-163.	3.9	45
85	Performance of a 3D printed cellular structure inspired by bone. <i>Thin-Walled Structures</i> , 2020, 151, 106713.	5.3	45
86	Behaviour of Multi-Storey Prefabricated Modular Buildings under seismic loads. <i>Earthquake and Structures</i> , 2016, 11, 1061-1076.	1.0	45
87	Bending and shear performance of Australian Radiata pine cross-laminated timber. <i>Construction and Building Materials</i> , 2020, 232, 117215.	7.2	44
88	Fire performance of prefabricated modular units using organoclay/glass fibre reinforced polymer composite. <i>Construction and Building Materials</i> , 2016, 129, 204-215.	7.2	43
89	Scene understanding in construction and buildings using image processing methods: A comprehensive review and a case study. <i>Journal of Building Engineering</i> , 2021, 33, 101672.	3.4	42
90	Effect of recycled rubber aggregate size on fracture and other mechanical properties of structural concrete. <i>Journal of Cleaner Production</i> , 2021, 314, 128230.	9.3	40

#	ARTICLE	IF	CITATIONS
91	Time-Efficient Post-Disaster Housing Reconstruction with Prefabricated Modular Structures. Open House International, 2014, 39, 59-69.	1.1	40
92	Influence of interfacial geometry on the energy absorption capacity and load sharing mechanisms of nacreous composite shells. Composite Structures, 2015, 132, 299-309.	5.8	39
93	Influences of clay and manufacturing on fire resistance of organoclay/thermoset nanocomposites. Composites Part A: Applied Science and Manufacturing, 2015, 74, 26-37.	7.6	39
94	Investigation of long-term corrosion resistance of reinforced concrete structures constructed with various types of concretes in marine and various climate environments. Construction and Building Materials, 2020, 237, 117701.	7.2	39
95	Examination of alkali-activated material nanostructure during thermal treatment. Journal of Materials Science, 2018, 53, 9486-9503.	3.7	37
96	Effect of fire-retardant ceram powder on the properties of phenolic-based GFRP composites. Composites Part B: Engineering, 2018, 155, 414-424.	12.0	37
97	Vibration of cracked functionally graded microplates by the strain gradient theory and extended isogeometric analysis. Engineering Structures, 2019, 187, 251-266.	5.3	37
98	Creep properties of cement and alkali activated fly ash materials using nanoindentation technique. Construction and Building Materials, 2018, 168, 547-555.	7.2	35
99	A discrete element model of concrete for cyclic loading. Computers and Structures, 2018, 196, 173-185.	4.4	35
100	Behaviour and design of high strength CFST columns with slender sections. Journal of Constructional Steel Research, 2021, 182, 106645.	3.9	35
101	Land-use planning: Implications for transport sustainability. Land Use Policy, 2016, 50, 252-261.	5.6	34
102	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. Journal of Cleaner Production, 2018, 189, 805-812.	9.3	33
103	Stress-strain relationship for very-high strength concrete (>100 MPa) confined by lateral reinforcement. Engineering Structures, 2018, 177, 795-808.	5.3	33
104	Nonlinear stability of eccentrically stiffened S-FGM elliptical cylindrical shells in thermal environment. Thin-Walled Structures, 2016, 108, 280-290.	5.3	32
105	The use of digital image correlation for identifying failure characteristics of cross-laminated timber under transverse loading. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107502.	5.0	32
106	Vision transformer-based autonomous crack detection on asphalt and concrete surfaces. Automation in Construction, 2022, 140, 104316.	9.8	32
107	An approach for sustainable, cost-effective and optimised material design for the prefabricated non-structural components of residential buildings. Journal of Building Engineering, 2020, 32, 101474.	3.4	31
108	Nonlinear vibration and dynamic response of imperfect eccentrically stiffened shear deformable sandwich plate with functionally graded material in thermal environment. Journal of Sandwich Structures and Materials, 2016, 18, 445-473.	3.5	30

#	ARTICLE	IF	CITATIONS
109	Understanding failure and stress-strain behavior of very-high strength concrete ($>100\text{MPa}$) confined by lateral reinforcement. <i>Construction and Building Materials</i> , 2018, 189, 62-77.	7.2	30
110	Assessment of progressive collapse potential of special moment resisting RC frames – Experimental and FE study. <i>Engineering Failure Analysis</i> , 2019, 105, 896-918.	4.0	30
111	An Assessment of the Effectiveness of Tree-Based Models for Multi-Variate Flood Damage Assessment in Australia. <i>Water (Switzerland)</i> , 2016, 8, 282.	2.7	29
112	Thermal performance of calcium-rich alkali-activated materials: A microstructural and mechanical study. <i>Construction and Building Materials</i> , 2017, 153, 225-237.	7.2	29
113	Shrinkage behavior of cementitious 3D printing materials: Effect of temperature and relative humidity. <i>Cement and Concrete Composites</i> , 2021, 124, 104238.	10.7	29
114	Vision-based excavator pose estimation using synthetically generated datasets with domain randomization. <i>Automation in Construction</i> , 2022, 134, 104089.	9.8	29
115	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.	10.1	27
116	Reliability considerations of modern design codes for CFST columns. <i>Journal of Constructional Steel Research</i> , 2021, 177, 106482.	3.9	27
117	Calibration and validation of FLFA – a new flood loss function for Australian residential structures. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 15-27.	3.6	26
118	Numerical modelling of hybrid elastomeric composite panels subjected to blast loadings. <i>Composite Structures</i> , 2016, 153, 108-122.	5.8	26
119	A digital twin approach for geometric quality assessment of as-built prefabricated facades. <i>Journal of Building Engineering</i> , 2021, 41, 102377.	3.4	26
120	Biomimetic adaptive electrochromic windows for enhancing building energy efficiency. <i>Applied Energy</i> , 2021, 300, 117341.	10.1	25
121	A new simple shear deformation plate theory. <i>Composite Structures</i> , 2017, 171, 277-285.	5.8	24
122	Fire resistance of a prefabricated bushfire bunker using aerated concrete panels. <i>Construction and Building Materials</i> , 2018, 174, 410-420.	7.2	24
123	Performance of hollow steel tube bollards under quasi-static and lateral impact load. <i>Thin-Walled Structures</i> , 2015, 88, 41-47.	5.3	23
124	Blast performance of a bio-mimetic panel based on the structure of nacre – A numerical study. <i>Composite Structures</i> , 2020, 234, 111691.	5.8	23
125	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.	2.3	22
126	The Failure Behaviour of Reinforced Concrete Panels Under Far-field and Near-field Blast Effects. <i>Structures</i> , 2018, 14, 220-229.	3.6	22

#	ARTICLE	IF	CITATIONS
127	Close-in blast resistance of large-scale auxetic re-entrant honeycomb sandwich panels. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 4016-4053.	3.5	22
128	Heat release and flame propagation in prefabricated modular unit with GFRP composite facades. <i>Building Simulation</i> , 2016, 9, 607-616.	5.6	21
129	Unsaturated soil blast: Flying plate experiment and numerical investigations. <i>International Journal of Impact Engineering</i> , 2019, 125, 212-228.	5.0	21
130	A comprehensive review of selected biological armor systems "From structure-function to bio-mimetic techniques. <i>Composite Structures</i> , 2019, 225, 111172.	5.8	21
131	Uncertainty quantification of the mechanical properties of lightweight concrete using micromechanical modelling. <i>International Journal of Mechanical Sciences</i> , 2020, 173, 105468.	6.7	21
132	Hybrid-mesh modelling & validation of woven fabric subjected to medium velocity impact. <i>International Journal of Mechanical Sciences</i> , 2018, 144, 427-437.	6.7	20
133	The development and ballistic performance of protective steel-concrete composite barriers against hypervelocity impacts by explosively formed projectiles. <i>Composite Structures</i> , 2019, 207, 625-644.	5.8	20
134	Performance of a bio-mimetic 3D printed conch-like structure under quasi-static loading. <i>Composite Structures</i> , 2020, 246, 112433.	5.8	20
135	Strengthening of heat-damaged steel fiber-reinforced concrete using CFRP composites: Experimental study and analytical modeling. <i>Structures</i> , 2021, 32, 1856-1870.	3.6	20
136	Failure analysis of structural steel subjected to long term exposure of hydrogen. <i>Engineering Failure Analysis</i> , 2020, 114, 104606.	4.0	20
137	Experimental and numerical investigations on the thermal response of multilayer glass fibre/unsaturated polyester/organoclay composite. <i>Fire and Materials</i> , 2016, 40, 1047-1069.	2.0	19
138	Optimised mix design and elastic modulus prediction of ultra-high strength concrete. <i>Construction and Building Materials</i> , 2021, 302, 124150.	7.2	19
139	Impact Resistance and Failure Analysis of Plain Woven Curtains. <i>International Journal of Protective Structures</i> , 2015, 6, 113-136.	2.3	18
140	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.	3.1	18
141	Design analysis of hybrid composite anti-ram bollard subjected to impulsive loadings. <i>Composite Structures</i> , 2018, 189, 598-613.	5.8	18
142	The structural behaviours of steel reinforced geopolymer concrete beams: An experimental and numerical investigation. <i>Structures</i> , 2021, 33, 567-580.	3.6	18
143	Progressive Collapse Analysis of RC Buildings against Internal Blast. <i>Advances in Structural Engineering</i> , 2015, 18, 2181-2192.	2.4	17
144	Effect of Nanoclay on Thermomechanical Properties of Epoxy/Glass Fibre Composites. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 1251-1261.	1.1	17

#	ARTICLE	IF	CITATIONS
145	Dynamic response of double skin façades under blast loads. <i>Engineering Structures</i> , 2016, 123, 155-165.	5.3	17
146	Validation of the material point method for the simulation of thin-walled tubes under lateral compression. <i>Thin-Walled Structures</i> , 2018, 130, 32-46.	5.3	17
147	The effects of precursors on rheology and self-compactness of geopolymer concrete. <i>Magazine of Concrete Research</i> , 2019, 71, 557-566.	2.0	17
148	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.	2.3	16
149	An Overview of the Vaccinia Virus Infectome: a Survey of the Proteins of the Poxvirus-Infected Cell. <i>Journal of Virology</i> , 2012, 86, 1487-1499.	3.4	16
150	Effect of Textile Architecture on Energy Absorption of Woven Fabrics Subjected to Ballistic Impact. <i>Applied Mechanics and Materials</i> , 0, 553, 757-762.	0.2	16
151	Structural Performance of Double-Skin Façade Systems Subjected to Blast Pressures. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	16
152	Nonlinear mechanical, thermal and thermo-mechanical postbuckling of imperfect eccentrically stiffened thin FGM cylindrical panels on elastic foundations. <i>Thin-Walled Structures</i> , 2015, 96, 155-168.	5.3	16
153	Comparison of optimal oriented façade integrated solar cooling systems in Australian climate zones. <i>Solar Energy</i> , 2020, 198, 385-398.	6.1	16
154	Investigation of rolling shear properties of cross-laminated timber (CLT) and comparison of experimental approaches. <i>Construction and Building Materials</i> , 2022, 316, 125897.	7.2	16
155	Influences of Material and Geometry in the Performance of Auxetic Composite Structure under Blast Loading. <i>Applied Mechanics and Materials</i> , 0, 846, 476-481.	0.2	15
156	Progressive collapse analysis of a typical RC high-rise tower. <i>Journal of King Saud University, Engineering Sciences</i> , 2017, 29, 313-320.	2.0	15
157	Reconstructed Phase Space-Based Damage Detection Using a Single Sensor for Beam-Like Structure Subjected to a Moving Mass. <i>Shock and Vibration</i> , 2017, 2017, 1-20.	0.6	15
158	Flood loss modelling with FLF-IT: a new flood loss function for Italian residential structures. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1047-1059.	3.6	15
159	Experimental and numerical investigation of an exterior reinforced concrete beam-column joint subjected to shock loading. <i>International Journal of Impact Engineering</i> , 2020, 137, 103473.	5.0	15
160	Concretes containing waste-based materials under active confinement. <i>Construction and Building Materials</i> , 2021, 270, 121465.	7.2	15
161	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.	7.2	15
162	Performance of an auxetic honeycomb-core sandwich panel under close-in and far-field detonations of high explosive. <i>Composite Structures</i> , 2022, 280, 114907.	5.8	15

#	ARTICLE	IF	CITATIONS
163	Influence of geometric and material parameters on the behavior of nacreous composites under quasi-static loading. <i>Composite Structures</i> , 2018, 183, 457-482.	5.8	14
164	Behaviour and design calculations of rectangular CFST beam-columns with slender sections. <i>Engineering Structures</i> , 2020, 222, 111142.	5.3	14
165	Progressive collapse and robustness of modular high-rise buildings. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 302-314.	3.7	14
166	Single Nucleoprotein Residue Modulates Arenavirus Replication Complex Formation. <i>MBio</i> , 2015, 6, e00524-15.	4.1	13
167	Breach diameter analysis of concrete panels subjected to contact charge detonations. <i>International Journal of Impact Engineering</i> , 2018, 120, 95-109.	5.0	13
168	The effects of surfactants on properties of lightweight concrete foam. <i>Magazine of Concrete Research</i> , 2020, 72, 163-172.	2.0	13
169	Automatic far-field camera calibration for construction scene analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1073-1090.	9.8	13
170	A Numerical Investigation of the Performance of a Nacre-Like Composite under Blast Loading. <i>Applied Mechanics and Materials</i> , 2016, 846, 464-469.	0.2	12
171	Development and evaluation of FLFAcs – A new Flood Loss Function for Australian commercial structures. <i>International Journal of Disaster Risk Reduction</i> , 2016, 17, 13-23.	3.9	12
172	Reprint of: Experimental investigation and simplified modeling of response of steel plates subjected to close-in blast loading from spherical liquid explosive charges. <i>International Journal of Impact Engineering</i> , 2017, 105, 1-12.	5.0	12
173	Geometrically nonlinear dynamic response and vibration of shear deformable eccentrically stiffened functionally graded material cylindrical panels subjected to thermal, mechanical, and blast loads. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 658-688.	3.5	12
174	Development limitations of compressive arch and catenary actions in reinforced concrete special moment resisting frames under column-loss scenarios. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 1616-1634.	3.7	12
175	Uncovering a high-performance bio-mimetic cellular structure from trabecular bone. <i>Scientific Reports</i> , 2020, 10, 14247.	3.3	10
176	A bio-mimetic cellular structure for mitigating the effects of impulsive loadings – A numerical study. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 1929-1955.	3.5	10
177	Optimisation of Mixture Properties for 3D Printing of Geopolymer Concrete. , 2018, , .		10
178	Waste-based alkali-activated mortars containing low- and high-halloysite kaolin nanoparticles. <i>Journal of Cleaner Production</i> , 2021, 327, 129428.	9.3	10
179	Energy absorption of steel hollow tubes under bending. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2015, 168, 930-942.	0.8	9
180	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

#	ARTICLE	IF	CITATIONS
181	Behaviour and design of eccentrically loaded CFST columns with high strength materials and slender sections. <i>Journal of Constructional Steel Research</i> , 2022, 188, 107004.	3.9	9
182	Progressive Collapse Analysis of RC Frames Subjected to Blast Loading. <i>Australian Journal of Structural Engineering</i> , 2006, 7, 47-55.	1.1	8
183	Numerical simulation of structural responses to a far-field explosion. <i>Australian Journal of Structural Engineering</i> , 2015, 16, 226-236.	1.1	8
184	Quantification of the Blast-Loading Parameters of Large-Scale Explosions. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	8
185	Simulation of cellular structures under large deformations using the material point method. <i>International Journal of Impact Engineering</i> , 2019, 134, 103385.	5.0	8
186	Dynamic increase factors for Radiata pine CLT panels subjected to simulated out-of-plane blast loading. <i>Engineering Structures</i> , 2020, 225, 111299.	5.3	8
187	Nonlinear inelastic simulation of high-rise buildings with innovative composite coupling shear walls and CFST columns. <i>Structural Design of Tall and Special Buildings</i> , 2021, 30, e1883.	1.9	8
188	Durability performance of reinforced waste-based geopolymers under exposure to various corrosive environments. <i>Case Studies in Construction Materials</i> , 2021, 15, e00703.	1.7	8
189	Innovative design tool for the optimization of blast-enhanced facade systems. <i>Journal of Facade Design and Engineering</i> , 2015, 2, 183-200.	0.5	7
190	Comparative assessment of the benefits associated with the absorption of CO ₂ with the use of RCA in structural concrete. <i>Journal of Cleaner Production</i> , 2017, 158, 285-295.	9.3	7
191	Performance of high-strength concrete walls exposed to fire. <i>Advances in Structural Engineering</i> , 2018, 21, 1173-1182.	2.4	7
192	Experimental study on damage magnification effect of lightweight auxetic honeycomb protective panels under close-in blast loads. <i>Thin-Walled Structures</i> , 2022, 178, 109509.	5.3	7
193	On the Compression Behavior of an Austenitic Fe-18Mn-0.6C-1.5Al Twinned Induced Plasticity Steel. <i>Steel Research International</i> , 2013, 84, 1281-1287.	1.8	6
194	Use of fluid structure interaction technique for flash flood impact assessment of structural components. <i>Journal of Flood Risk Management</i> , 2020, 13, e12581.	3.3	6
195	Sustainable utilisation of low-grade and contaminated waste glass fines as a partial sand replacement in structural concrete. <i>Case Studies in Construction Materials</i> , 2022, 16, e00794.	1.7	6
196	Attention recurrent residual U-Net for predicting pixel-level crack widths in concrete surfaces. <i>Structural Health Monitoring</i> , 2022, 21, 2732-2749.	7.5	6
197	Behaviour of embedded bolted shear connectors in steel-timber composite beams subjected to cyclic loading. <i>Journal of Building Engineering</i> , 2022, 54, 104581.	3.4	6
198	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.	2.3	5

#	ARTICLE	IF	CITATIONS
199	Failure modes and buckling coefficient of partially stiffened cold-formed sections in bending. Journal of Constructional Steel Research, 2015, 111, 21-30.	3.9	5
200	ENERGY OPTIMIZED WIRELESS SENSOR NETWORK FOR MONITORING INSIDE BUILDINGS: THEORETICAL MODEL AND EXPERIMENTAL ANALYSIS. Progress in Electromagnetics Research M, 2014, 37, 11-20.	0.9	4
201	Influence of Architecture and Orientation in 2-Layers Fabric Structures. Applied Mechanics and Materials, 0, 846, 470-475.	0.2	4
202	Effective use of Offsite Manufacturing for Public Infrastructure Projects in Australia. , 2019, , .		4
203	Nonlinear dynamic response and vibration of imperfect eccentrically stiffened sandwich third-order shear deformable FGM cylindrical panels in thermal environments. Journal of Sandwich Structures and Materials, 2019, 21, 2816-2845.	3.5	4
204	Experimental study into the behaviour of profiled composite walls under combined axial and thermal loadings. Engineering Structures, 2020, 210, 110354.	5.3	4
205	Development of a <scp>waste-based eco-friendly</scp> structural mortar without Portland cement and natural sand. Structural Concrete, 2021, 22, E488.	3.1	4
206	Performance of bio-inspired cross-laminated timber under blast loading " A numerical study. Composite Structures, 2021, 260, 113524.	5.8	4
207	Energy Efficient Time Synchronization in WSN for Critical Infrastructure Monitoring. Communications in Computer and Information Science, 2011, , 314-323.	0.5	4
208	Structural performance under lateral loads of innovative prefabricated modular structures. , 2012, , 717-722.		4
209	Modelling of nano-silica in cement paste. Proceedings of SPIE, 2013, , .	0.8	3
210	Underwater Impulsive Loading-Induced Dynamic Failures of Monolithic Composite Panel. Applied Mechanics and Materials, 2014, 553, 539-544.	0.2	3
211	Investigations of Cavity Pressure Behaviors of Double-Skin Façade Systems Subjected to Blast Loads. Journal of Performance of Constructed Facilities, 2015, 29, .	2.0	3
212	Blast Resistance of Hybrid Elastomeric Composite Panels. Applied Mechanics and Materials, 2016, 846, 458-463.	0.2	3
213	Discrete Element Modelling of the Mechanical Behaviour of a Highly Porous Foamed Concrete. , 2017, , .		3
214	Predictive applications of Australian flood loss models after a temporal and spatial transfer. Geomatics, Natural Hazards and Risk, 2018, 9, 416-430.	4.3	3
215	Production and placement of self-compacting concrete. , 2020, , 65-81.		3
216	Design and Modeling of Bio-inspired Lightweight Composite Panels for Blast Resistance. , 2017, , 201-231.		3

#	ARTICLE	IF	CITATIONS
217	Protective structures research at the University of Melbourne. Australian Journal of Structural Engineering, 2012, 13, .	1.1	2
218	Curvature Ductility of Concrete Element under High Strain-Rates. Applied Mechanics and Materials, 0, 166-169, 2910-2917.	0.2	2
219	Section classifications for cold-formed channel steel. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2014, 167, 426-435.	0.8	2
220	Identification of the risk of blast-induced glass window failure in a complex environment. International Journal of Protective Structures, 2018, 9, 99-117.	2.3	2
221	Enhancing Toughness of Medium-Density Fiberboard by Mimicking Nacreous Structures through Advanced Manufacturing Techniques. Journal of Structural Engineering, 2020, 146, 04020001.	3.4	2
222	Post-yield capacity of cold-formed channel sections in bending. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, 168, 251-262.	0.8	1
223	Automated simulation techniques for uncovering high-performance bioinspired cellular structures under blast loads. Journal of Sandwich Structures and Materials, 2022, 24, 517-535.	3.5	1
224	Use of nanoclay to improve the fire performance of glass fibre composites. , 2013, , .		0
225	Advancements in Analysis and Design of Protective Structures against Extreme Loadings. Advances in Civil Engineering, 2019, 2019, 1-2.	0.7	0
226	Concrete high-rise buildings subjected to blast loading and aircraft impact. , 2002, , .		0
227	MD2 Buildings 2. Wind Engineers JAWE, 2006, 2006, 393-416.	0.1	0
228	TD2 Buildings 6. Wind Engineers JAWE, 2006, 2006, 733-756.	0.1	0
229	An Investigation on The Behavior of Glazing Components Subjected to Full Scale Blast Test. Bentang, 2008, 1, .	0.0	0
230	An Integrated Simulation and Visualisation Platform for the Design of Sustainable Urban Developments in a Peri-Urban Context. Water Science and Technology Library, 2016, , 575-587.	0.3	0
231	FINITE ELEMENT MODELLING OF 2-SPAN CONTINUOUS RC BEAMS SHEAR STRENGTHENED AND SHEAR REPAIRED WITH CFRP STRIPS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
232	Cost-Effective Mix Design for Ultra-High Strength Concrete Up to 170 MPa. Lecture Notes in Civil Engineering, 2022, , 547-555.	0.4	0
233	Ballistic performance of a lightweight nacre-inspired armour panel â€œ a numerical study. Composites Part C: Open Access, 2022, 8, 100259.	3.2	0