

Tuan D Ngo

List of Publications by Year in descending order

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Version: 2024-02-01

233
papers

16,839
citations

20817

60
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17105

122
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docs citations

234
times ranked

13235
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Progressive collapse and robustness of modular high-rise buildings. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 302-314. | 3.7 | 14 |
| 2 | Automated simulation techniques for uncovering high-performance bioinspired cellular structures under blast loads. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 517-535. | 3.5 | 1 |
| 3 | 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 |
| 4 | Cost-Effective Mix Design for Ultra-High Strength Concrete Up to 170 MPa. <i>Lecture Notes in Civil Engineering</i> , 2022, , 547-555. | 0.4 | 0 |
| 5 | 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 |
| 6 | 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 |
| 7 | Vision-based excavator pose estimation using synthetically generated datasets with domain randomization. <i>Automation in Construction</i> , 2022, 134, 104089. | 9.8 | 29 |
| 8 | 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 |
| 9 | Real-time monitoring of construction sites: Sensors, methods, and applications. <i>Automation in Construction</i> , 2022, 136, 104099. | 9.8 | 74 |
| 10 | 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 |
| 11 | Ballistic performance of a lightweight nacre-inspired armour panel – a numerical study. <i>Composites Part C: Open Access</i> , 2022, 8, 100259. | 3.2 | 0 |
| 12 | Vision transformer-based autonomous crack detection on asphalt and concrete surfaces. <i>Automation in Construction</i> , 2022, 140, 104316. | 9.8 | 32 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Development of a waste-based eco-friendly structural mortar without Portland cement and natural sand. <i>Structural Concrete</i> , 2021, 22, E488. | 3.1 | 4 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Computer Vision Techniques in Construction: A Critical Review. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 3383-3397. | 10.2 | 170 |
| 22 | 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 |
| 23 | Concretes containing waste-based materials under active confinement. <i>Construction and Building Materials</i> , 2021, 270, 121465. | 7.2 | 15 |
| 24 | Reliability considerations of modern design codes for CFST columns. <i>Journal of Constructional Steel Research</i> , 2021, 177, 106482. | 3.9 | 27 |
| 25 | Automatic far-field camera calibration for construction scene analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1073-1090. | 9.8 | 13 |
| 26 | Performance of bio-inspired cross-laminated timber under blast loading – A numerical study. <i>Composite Structures</i> , 2021, 260, 113524. | 5.8 | 4 |
| 27 | 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 |
| 28 | 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 |
| 29 | Behaviour and design of high strength CFST columns with slender sections. <i>Journal of Constructional Steel Research</i> , 2021, 182, 106645. | 3.9 | 35 |
| 30 | A state-of-the-art review on the durability of geopolymers for sustainable structures and infrastructure. <i>Construction and Building Materials</i> , 2021, 291, 123381. | 7.2 | 93 |
| 31 | 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 |
| 32 | 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 |
| 33 | A digital twin approach for geometric quality assessment of as-built prefabricated façades. <i>Journal of Building Engineering</i> , 2021, 41, 102377. | 3.4 | 26 |
| 34 | Biomimetic adaptive electrochromic windows for enhancing building energy efficiency. <i>Applied Energy</i> , 2021, 300, 117341. | 10.1 | 25 |
| 35 | The structural behaviours of steel reinforced geopolymers concrete beams: An experimental and numerical investigation. <i>Structures</i> , 2021, 33, 567-580. | 3.6 | 18 |
| 36 | Optimised mix design and elastic modulus prediction of ultra-high strength concrete. <i>Construction and Building Materials</i> , 2021, 302, 124150. | 7.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 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 |
| 38 | Novel lightweight high-energy absorbing auxetic structures guided by topology optimisation. <i>International Journal of Mechanical Sciences</i> , 2021, 211, 106793. | 6.7 | 52 |
| 39 | Durability performance of reinforced waste-based geopolymer foam concrete under exposure to various corrosive environments. <i>Case Studies in Construction Materials</i> , 2021, 15, e00703. | 1.7 | 8 |
| 40 | Waste-based alkali-activated mortars containing low- and high-halloysite kaolin nanoparticles. <i>Journal of Cleaner Production</i> , 2021, 327, 129428. | 9.3 | 10 |
| 41 | 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 |
| 42 | The effects of surfactants on properties of lightweight concrete foam. <i>Magazine of Concrete Research</i> , 2020, 72, 163-172. | 2.0 | 13 |
| 43 | 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 |
| 44 | 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 |
| 45 | Bending and shear performance of Australian Radiata pine cross-laminated timber. <i>Construction and Building Materials</i> , 2020, 232, 117215. | 7.2 | 44 |
| 46 | Enhancing Toughness of Medium-Density Fiberboard by Mimicking Nacreous Structures through Advanced Manufacturing Techniques. <i>Journal of Structural Engineering</i> , 2020, 146, 04020001. | 3.4 | 2 |
| 47 | 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 |
| 48 | Investigation of long-term corrosion resistance of reinforced concrete structures constructed with various types of concretes in marine and various climate environments. <i>Construction and Building Materials</i> , 2020, 237, 117701. | 7.2 | 39 |
| 49 | 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 |
| 50 | 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 |
| 51 | A review on modular construction for high-rise buildings. <i>Structures</i> , 2020, 28, 1265-1290. | 3.6 | 161 |
| 52 | Behaviour and design calculations of rectangular CFST beam-columns with slender sections. <i>Engineering Structures</i> , 2020, 222, 111142. | 5.3 | 14 |
| 53 | Impact of Australia's catastrophic 2019/20 bushfire season on communities and environment. Retrospective analysis and current trends. <i>Journal of Safety Science and Resilience</i> , 2020, 1, 44-56. | 2.3 | 158 |
| 54 | Uncovering a high-performance bio-mimetic cellular structure from trabecular bone. <i>Scientific Reports</i> , 2020, 10, 14247. | 3.3 | 10 |

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|----|--|------|-----------|
| 55 | Performance of a bio-mimetic 3D printed conch-like structure under quasi-static loading. Composite Structures, 2020, 246, 112433. | 5.8 | 20 |
| 56 | Experimental study into the behaviour of profiled composite walls under combined axial and thermal loadings. Engineering Structures, 2020, 210, 110354. | 5.3 | 4 |
| 57 | Enhancing building energy efficiency by adaptive facade: A computational optimization approach. Applied Energy, 2020, 265, 114797. | 10.1 | 67 |
| 58 | 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. | 3.7 | 12 |
| 59 | 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 |
| 60 | Comparison of optimal oriented facade integrated solar cooling systems in Australian climate zones. Solar Energy, 2020, 198, 385-398. | 6.1 | 16 |
| 61 | Sensor-based safety management. Automation in Construction, 2020, 113, 103128. | 9.8 | 78 |
| 62 | Production and placement of self-compacting concrete. , 2020, , 65-81. | | 3 |
| 63 | Uncertainty quantification of the mechanical properties of lightweight concrete using micromechanical modelling. International Journal of Mechanical Sciences, 2020, 173, 105468. | 6.7 | 21 |
| 64 | Performance of a 3D printed cellular structure inspired by bone. Thin-Walled Structures, 2020, 151, 106713. | 5.3 | 45 |
| 65 | Multi-scale analysis on thermal properties of cement-based materials containing micro-encapsulated phase change materials. Construction and Building Materials, 2020, 254, 119221. | 7.2 | 15 |
| 66 | Life cycle performance of Cross Laminated Timber mid-rise residential buildings in Australia. Energy and Buildings, 2020, 223, 110091. | 6.7 | 61 |
| 67 | Failure analysis of structural steel subjected to long term exposure of hydrogen. Engineering Failure Analysis, 2020, 114, 104606. | 4.0 | 20 |
| 68 | 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 |
| 69 | Unsaturated soil blast: Flying plate experiment and numerical investigations. International Journal of Impact Engineering, 2019, 125, 212-228. | 5.0 | 21 |
| 70 | Advancements in Analysis and Design of Protective Structures against Extreme Loadings. Advances in Civil Engineering, 2019, 2019, 1-2. | 0.7 | 0 |
| 71 | Assessment of progressive collapse potential of special moment resisting RC frames – Experimental and FE study. Engineering Failure Analysis, 2019, 105, 896-918. | 4.0 | 30 |
| 72 | Simulation of cellular structures under large deformations using the material point method. International Journal of Impact Engineering, 2019, 134, 103385. | 5.0 | 8 |

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|----|--|------|-----------|
| 73 | New advancements, challenges and opportunities of multi-storey modular buildings – A state-of-the-art review. <i>Engineering Structures</i> , 2019, 183, 883-893. | 5.3 | 345 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | Interfacial chemistry of a fly ash geopolymer and aggregates. <i>Journal of Cleaner Production</i> , 2019, 231, 980-989. | 9.3 | 55 |
| 78 | 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 |
| 79 | Vibration of cracked functionally graded microplates by the strain gradient theory and extended isogeometric analysis. <i>Engineering Structures</i> , 2019, 187, 251-266. | 5.3 | 37 |
| 80 | Performance Review of Prefabricated Building Systems and Future Research in Australia. <i>Buildings</i> , 2019, 9, 38. | 3.1 | 170 |
| 81 | Concrete-filled steel tubular columns: Test database, design and calibration. <i>Journal of Constructional Steel Research</i> , 2019, 157, 161-181. | 3.9 | 91 |
| 82 | 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 |
| 83 | Effective use of Offsite Manufacturing for Public Infrastructure Projects in Australia. , 2019, , . | | 4 |
| 84 | Deep neural network with high-order neuron for the prediction of foamed concrete strength. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 316-332. | 9.8 | 167 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | Nonlinear dynamic response and vibration of imperfect eccentrically stiffened sandwich third-order shear deformable FGM cylindrical panels in thermal environments. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2816-2845. | 3.5 | 4 |
| 89 | 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 |
| 90 | Identification of the risk of blast-induced glass window failure in a complex environment. <i>International Journal of Protective Structures</i> , 2018, 9, 99-117. | 2.3 | 2 |

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|-----|--|------|-----------|
| 91 | Examination of alkali-activated material nanostructure during thermal treatment. <i>Journal of Materials Science</i> , 2018, 53, 9486-9503. | 3.7 | 37 |
| 92 | 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 |
| 93 | Microstructural study of environmentally friendly boroaluminosilicate geopolymers. <i>Journal of Cleaner Production</i> , 2018, 189, 805-812. | 9.3 | 33 |
| 94 | Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. <i>Composites Part B: Engineering</i> , 2018, 143, 172-196. | 12.0 | 4,756 |
| 95 | Design analysis of hybrid composite anti-ram bollard subjected to impulsive loadings. <i>Composite Structures</i> , 2018, 189, 598-613. | 5.8 | 18 |
| 96 | Auxetic metamaterials and structures: a review. <i>Smart Materials and Structures</i> , 2018, 27, 023001. | 3.5 | 657 |
| 97 | Enhancing the strength of pre-made foams for foam concrete applications. <i>Cement and Concrete Composites</i> , 2018, 87, 164-171. | 10.7 | 175 |
| 98 | 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 |
| 99 | Fire resistance of a prefabricated bushfire bunker using aerated concrete panels. <i>Construction and Building Materials</i> , 2018, 174, 410-420. | 7.2 | 24 |
| 100 | Creep properties of cement and alkali activated fly ash materials using nanoindentation technique. <i>Construction and Building Materials</i> , 2018, 168, 547-555. | 7.2 | 35 |
| 101 | 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 |
| 102 | Predictive applications of Australian flood loss models after a temporal and spatial transfer. <i>Geomatics, Natural Hazards and Risk</i> , 2018, 9, 416-430. | 4.3 | 3 |
| 103 | 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 |
| 104 | Blast resistance of auxetic and honeycomb sandwich panels: Comparisons and parametric designs. <i>Composite Structures</i> , 2018, 183, 242-261. | 5.8 | 298 |
| 105 | Auxetic nail: Design and experimental study. <i>Composite Structures</i> , 2018, 184, 288-298. | 5.8 | 123 |
| 106 | Performance of high-strength concrete walls exposed to fire. <i>Advances in Structural Engineering</i> , 2018, 21, 1173-1182. | 2.4 | 7 |
| 107 | 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 |
| 108 | A discrete element model of concrete for cyclic loading. <i>Computers and Structures</i> , 2018, 196, 173-185. | 4.4 | 35 |

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|-----|---|------|-----------|
| 109 | Design and characterisation of a tuneable 3D buckling-induced auxetic metamaterial. <i>Materials and Design</i> , 2018, 139, 336-342. | 7.0 | 132 |
| 110 | Stress-strain relationship for very-high strength concrete (>100MPa) confined by lateral reinforcement. <i>Engineering Structures</i> , 2018, 177, 795-808. | 5.3 | 33 |
| 111 | Understanding failure and stress-strain behavior of very-high strength concrete (>100MPa) confined by lateral reinforcement. <i>Construction and Building Materials</i> , 2018, 189, 62-77. | 7.2 | 30 |
| 112 | Effect of fire-retardant ceram powder on the properties of phenolic-based GFRP composites. <i>Composites Part B: Engineering</i> , 2018, 155, 414-424. | 12.0 | 37 |
| 113 | 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 |
| 114 | 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 |
| 115 | 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 |
| 116 | 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 |
| 117 | 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 |
| 118 | A modified firefly algorithm-artificial neural network expert system for predicting compressive and tensile strength of high-performance concrete. <i>Construction and Building Materials</i> , 2018, 180, 320-333. | 7.2 | 247 |
| 119 | Optimisation of Mixture Properties for 3D Printing of Geopolymer Concrete. , 2018, , . | | 10 |
| 120 | Three-dimensional modelling of auxetic sandwich panels for localised impact resistance. <i>Journal of Sandwich Structures and Materials</i> , 2017, 19, 291-316. | 3.5 | 183 |
| 121 | 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 |
| 122 | Building Information Modelling for High-Rise Land Administration. <i>Transactions in GIS</i> , 2017, 21, 91-113. | 2.3 | 58 |
| 123 | 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 |
| 124 | Regulating the chemical foaming reaction to control the porosity of geopolymer foams. <i>Materials and Design</i> , 2017, 120, 255-265. | 7.0 | 116 |
| 125 | Investigation of strength and hydration characteristics in nano-silica incorporated cement paste. <i>Cement and Concrete Composites</i> , 2017, 80, 17-30. | 10.7 | 164 |
| 126 | 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 |

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|-----|---|------|-----------|
| 127 | 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 |
| 128 | A new simple shear deformation plate theory. <i>Composite Structures</i> , 2017, 171, 277-285. | 5.8 | 24 |
| 129 | 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 |
| 130 | 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 |
| 131 | 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 |
| 132 | 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 |
| 133 | How does aluminium foaming agent impact the geopolymer formation mechanism?. <i>Cement and Concrete Composites</i> , 2017, 80, 277-286. | 10.7 | 75 |
| 134 | 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 |
| 135 | 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 |
| 136 | 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 |
| 137 | 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 |
| 138 | A novel three-variable shear deformation plate formulation: Theory and Isogeometric implementation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 326, 376-401. | 6.6 | 163 |
| 139 | Impact and close-in blast response of auxetic honeycomb-cored sandwich panels: Experimental tests and numerical simulations. <i>Composite Structures</i> , 2017, 180, 161-178. | 5.8 | 265 |
| 140 | Discrete Element Modelling of the Mechanical Behaviour of a Highly Porous Foamed Concrete. , 2017, , | | 3 |
| 141 | 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 |
| 142 | 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 |
| 143 | Bimaterial 3D printing and numerical analysis of bio-inspired composite structures under in-plane and transverse loadings. <i>Composites Part B: Engineering</i> , 2017, 108, 210-223. | 12.0 | 197 |
| 144 | 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 |

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|-----|--|-----|-----------|
| 145 | 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 |
| 146 | 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 |
| 147 | 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 |
| 148 | Design and Modeling of Bio-inspired Lightweight Composite Panels for Blast Resistance. , 2017, , 201-231. | | 3 |
| 149 | Calibration and validation of FLFA<sub>rs> – a new flood loss function for Australian residential structures. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 15-27. | 3.6 | 26 |
| 150 | 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 |
| 151 | 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 |
| 152 | Innovative Flexible Structural System Using Prefabricated Modules. <i>Journal of Architectural Engineering</i> , 2016, 22, . | 1.6 | 54 |
| 153 | Blast Resistance of Hybrid Elastomeric Composite Panels. <i>Applied Mechanics and Materials</i> , 2016, 846, 458-463. | 0.2 | 3 |
| 154 | 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 |
| 155 | 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 |
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