# Chunwei Zhang

List of Publications by Year
in descending order



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|---|---|---|---|
| 187 papers | 4,635 citations | 70961 41 h-index | 149479 56 g-index |
| 190 all docs | 190 docs citations | 190 times ranked | 2406 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nonlinear dynamic behavior of simply-supported RC beams subjected to combined impact-blast loading. Engineering Structures, 2019, 181, 124-142. | 2.6 | 154 |
| 2 | Structural Damage Localization and Quantification Based on a CEEMDAN Hilbert Transform Neural Network Approach: A Model Steel Truss Bridge Case Study. Sensors, 2020, 20, 1271. | 2.1 | 104 |
| 3 | The Strain Transfer Mechanism of Fiber Bragg Grating Sensor for Extra Large Strain Monitoring. Sensors, 2019, 19, 1851. | 2.1 | 103 |
| 4 | Blast loads induced responses of RC structural members: State-of-the-art review. Composites Part B: Engineering, 2020, 195, 108066. | 5.9 | 102 |
| 5 | Nonlinear numerical analysis and progressive damage assessment of a cable-stayed bridge pier subjected to ship collision. Marine Structures, 2020, 69, 102662. | 1.6 | 100 |
| 6 | Numerical analysis of axially loaded RC columns subjected to the combination of impact and blast loads. Engineering Structures, 2020, 219, 110924. | 2.6 | 99 |
| 7 | Vibration feature extraction using signal processing techniques for structural health monitoring: A review. Mechanical Systems and Signal Processing, 2022, 177, 109175. | 4.4 | 96 |
| 8 | Fibre Bragg grating sensor-based damage response monitoring of an asymmetric reinforced concrete shear wall structure subjected to progressive seismic loads. Structural Control and Health Monitoring, 2019, 26, e2307. | 1.9 | 90 |
| 9 | Effects of axial load on nonlinear response of RC columns subjected to lateral impact load: Ship-pier collision. Engineering Failure Analysis, 2018, 91, 397-418. | 1.8 | 88 |
| 10 | Assessment of damage to an underground box tunnel by a surface explosion. Tunnelling and Underground Space Technology, 2017, 66, 64-76. | 3.0 | 87 |
| 11 | Performance Assessment of Concrete and Steel Material Models in LS-DYNA for Enhanced Numerical Simulation, A State of the Art Review. Archives of Computational Methods in Engineering, 2021, 28, 2921-2942. | 6.0 | 80 |
| 12 | Numerical Study on Hysteretic Behaviour of Horizontal-Connection and Energy-Dissipation Structures Developed for Prefabricated Shear Walls. Applied Sciences (Switzerland), 2020, 10, 1240. | 1.3 | 72 |
| 13 | Parameter optimization and analysis of a vehicle suspension system controlled by magnetorheological fluid dampers. Structural Control and Health Monitoring, 2006, 13, 885-896. | 1.9 | 70 |
| 14 | Modeling and dynamical performance of the electromagnetic mass driver system for structural vibration control. Engineering Structures, 2015, 82, 93-103. | 2.6 | 70 |
| 15 | Early Monitoring of Rebar Corrosion Evolution Based on FBG Sensor. International Journal of Structural Stability and Dynamics, 2018, 18, 1840001. | 1.5 | 69 |
| 16 | Control Structure Interaction of Electromagnetic Mass Damper System for Structural Vibration Control. Journal of Engineering Mechanics - ASCE, 2008, 134, 428-437. | 1.6 | 68 |
| 17 | State-of-the-Art Review on Responses of RC Structures Subjected to Lateral Impact Loads. Archives of Computational Methods in Engineering, 2021, 28, 2477-2507. | 6.0 | 67 |
| 18 | Development of Wireless MEMS Inclination Sensor System for Swing Monitoring of Large-Scale Hook Structures. IEEE Transactions on Industrial Electronics, 2009, 56, 1072-1078. | 5.2 | 66 |

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|---|---|---|---|
| 19 | Swing vibration control of suspended structures using the Active Rotary Inertia Driver system: Theoretical modeling and experimental verification. Structural Control and Health Monitoring, 2020, 27, e2543. | 1.9 | 65 |
| 20 | Influence of seismic incident angle on response uncertainty and structural performance of tall asymmetric structure. Structural Design of Tall and Special Buildings, 2020, 29, e1750. | 0.9 | 64 |
| 21 | On the rheological properties of multi-walled carbon nano-polyvinylpyrrolidone/silicon-based shear thickening fluid. Nanotechnology Reviews, 2021, 10, 1339-1348. | 2.6 | 64 |
| 22 | Experimental and numerical investigation on the complex behaviour of the localised seismic response in a multi-storey plan-asymmetric structure. Structure and Infrastructure Engineering, 2021, 17, 86-102. | 2.0 | 63 |
| 23 | Experimental Investigation on the Mechanical Properties of Curved Metallic Plate Dampers. Applied Sciences (Switzerland), 2020, 10, 269. | 1.3 | 62 |
| 24 | Structural damage detection method based on the complete ensemble empirical mode decomposition with adaptive noise: a model steel truss bridge case study. Structural Health Monitoring, 2022, 21, 887-912. | 4.3 | 60 |
| 25 | Health Monitoring of Bolted Spherical Joint Connection Based on Active Sensing Technique Using Piezoceramic Transducers. Sensors, 2018, 18, 1727. | 2.1 | 59 |
| 26 | Swing Vibration Control of Suspended Structure Using Active Rotary Inertia Driver System: Parametric Analysis and Experimental Verification. Applied Sciences (Switzerland), 2019, 9, 3144. | 1.3 | 59 |
| 27 | Dynamic performance of concrete columns retrofitted with FRP using segment pressure technique. Composite Structures, 2021, 260, 113473. | 3.1 | 59 |
| 28 | The advancement of seismic isolation and energy dissipation mechanisms based on friction. Soil Dynamics and Earthquake Engineering, 2021, 146, 106746. | 1.9 | 59 |
| 29 | Development of pressure-impulse models and residual capacity assessment of RC columns using high fidelity Arbitrary Lagrangian-Eulerian simulation. Engineering Structures, 2020, 224, 111219. | 2.6 | 58 |
| 30 | The role of viscoelastic damping on retrofitting seismic performance of asymmetric reinforced concrete structures. Earthquake Engineering and Engineering Vibration, 2020, 19, 223-237. | 1.1 | 58 |
| 31 | Large deflection behavior effect in reinforced concrete columns exposed to extreme dynamic loads. Frontiers of Structural and Civil Engineering, 2020, 14, 532-553. | 1.2 | 58 |
| 32 | Robustness of the Active Rotary Inertia Driver System for Structural Swing Vibration Control Subjected to Multi-Type Hazard Excitations. Applied Sciences (Switzerland), 2019, 9, 4391. | 1.3 | 57 |
| 33 | Direct Use of the Savitzkyâ€“Golay Filter to Develop an Output-Only Trend Line-Based Damage Detection Method. Sensors, 2020, 20, 1983. | 2.1 | 57 |
| 34 | A review on the applications of polyurea in the construction industry. Polymers for Advanced Technologies, 2021, 32, 2797-2812. | 1.6 | 57 |
| 35 | Investigation on low-cost friction-based isolation systems for masonry building structures: Experimental and numerical studies. Engineering Structures, 2021, 243, 112645. | 2.6 | 57 |
| 36 | Real-time hybrid simulation approach for performance validation of structural active control systems: a linear motor actuator based active mass driver case study. Structural Control and Health Monitoring, 2014, 21, 574-589. | 1.9 | 51 |

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| 37 | Comparison of ALE, LBE and pressure time history methods to evaluate extreme loading effects in RC column. Structures, 2020, 28, 456-466. | 1.7 | 50 |
| 38 | Beam Damage Detection Under a Moving Load Using Random Decrement Technique and Savitzkyâ€“Golay Filter. Sensors, 2020, 20, 243. | 2.1 | 49 |
| 39 | A Circular-Polarization Reconfigurable Meng-Shaped Patch Antenna. IEEE Access, 2018, 6, 51419-51428. | 2.6 | 48 |
| 40 | Active mass driver control system for suppressing wind-induced vibration of the Canton Tower. Smart Structures and Systems, 2014, 13, 281-303. | 1.9 | 46 |
| 41 | Control Force Characteristics of Different Control Strategies for the Wind-Excited 76-Story Benchmark Building Structure. Advances in Structural Engineering, 2014, 17, 543-559. | 1.2 | 45 |
| 42 | Surface energy and thermal stress effect on nonlinear vibration of electrostatically actuated circular micro-/nanoplates based on modified couple stress theory. Acta Mechanica, 2017, 228, 129-140. | 1.1 | 43 |
| 43 | Cracking and thermal shock resistance of a Bi2Te3 based thermoelectric material. Engineering Fracture Mechanics, 2016, 152, 1-9. | 2.0 | 42 |
| 44 | Is it time to embrace building integrated Photovoltaics? A review with particular focus on Australia. Solar Energy, 2019, 188, 1118-1133. | 2.9 | 42 |
| 45 | Wideband subwavelengthâ€profile circularly polarised array antenna using anisotropic metasurface. Electronics Letters, 2015, 51, 1403-1405. | 0.5 | 41 |
| 46 | Remedial Modelling of Steel Bridges through Application of Analytical Hierarchy Process (AHP). Applied Sciences (Switzerland), 2017, 7, 168. | 1.3 | 40 |
| 47 | Loading rate effects on the responses of simply supported RC beams subjected to the combination of impact and blast loads. Engineering Structures, 2019, 201, 109837. | 2.6 | 40 |
| 48 | Broadband artistic antenna array composed of circularly-polarized Wang-shaped patch elements. AEU - International Journal of Electronics and Communications, 2017, 74, 116-122. | 1.7 | 36 |
| 49 | Seismic control performance for Pounding Tuned Massed Damper based on viscoelastic pounding force analytical method. Journal of Sound and Vibration, 2017, 411, 362-377. | 2.1 | 35 |
| 50 | Experimental and numerical investigation on in-plane impact behaviour of chiral auxetic structure. Composite Structures, 2021, 267, 113922. | 3.1 | 34 |
| 51 | UFSW tool pin profile effects on properties of aluminium-steel joint. Vacuum, 2021, 192, 110460. | 1.6 | 34 |
| 52 | Experimental study on the displacement patterns and the phase diagram of immiscible fluid displacement in three-dimensional porous media. Advances in Water Resources, 2020, 140, 103584. | 1.7 | 32 |
| 53 | Looseness Monitoring of Bolted Spherical Joint Connection Using Electro-Mechanical Impedance Technique and BP Neural Networks. Sensors, 2019, 19, 1906. | 2.1 | 31 |
| 54 | Dielectric Characterization of Chinese Standard Concrete for Compressive Strength Evaluation. Applied Sciences (Switzerland), 2017, 7, 177. | 1.3 | 30 |

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| 55 | Control Performance and Robustness of Pounding Tuned Mass Damper for Vibration Reduction in SDOF Structure. Shock and Vibration, 2016, 2016, 1-15. | 0.3 | 29 |
| 56 | Low velocity impact resistance of bio-inspired building ceramic composites with nacre-like structure. Construction and Building Materials, 2018, 169, 851-858. | 3.2 | 29 |
| 57 | Analysis of girder bridge pier subjected to barge collision considering the superstructure interactions: the case study of a multiple-pier bridge system. Structure and Infrastructure Engineering, 2019, 15, 392-412. | 2.0 | 29 |
| 58 | Comprehensive performances of carbon nanotube reinforced foam concrete with tetraethyl orthosilicate impregnation. Construction and Building Materials, 2017, 131, 512-516. | 3.2 | 28 |
| 59 | Experimental Investigation of a Base Isolation System Incorporating MR Dampers with the High-Order Single Step Control Algorithm. Applied Sciences (Switzerland), 2017, 7, 344. | 1.3 | 28 |
| 60 | Expansion prediction of alkali aggregate reactivity-affected concrete structures using a hybrid soft computing method. Neural Computing and Applications, 2019, 31, 8641-8660. | 3.2 | 28 |
| 61 | Shear-thickening performance of suspensions of mixed ceria and silica nanoparticles. Journal of Materials Science, 2019, 54, 346-355. | 1.7 | 28 |
| 62 | Effects of soilâ€“pile interaction on the response of bridge pier to barge collision using energy distribution method. Structure and Infrastructure Engineering, 2018, 14, 1520-1534. | 2.0 | 27 |
| 63 | Strain Transfer Analysis of a Clamped Fiber Bragg Grating Sensor. Applied Sciences (Switzerland), 2017, 7, 188. | 1.3 | 25 |
| 64 | Influences of multi-walled carbon nanotube (MCNT) fraction, moisture, stress/strain level on the electrical properties of MCNT cement-based composites. Sensors and Actuators A: Physical, 2018, 280, 413-421. | 2.0 | 25 |
| 65 | Superwide-Range Fiber Bragg Grating Displacement Sensor Based on an Eccentric Gear: Principles and Experiments. Journal of Aerospace Engineering, 2019, 32, . | 0.8 | 25 |
| 66 | Three-dimensional fingering structures in immiscible flow at the crossover from viscous to capillary fingering. International Journal of Multiphase Flow, 2020, 122, 103147. | 1.6 | 25 |
| 67 | Vibration analysis of a sandwich cylindrical shell in hygrothermal environment. Nanotechnology Reviews, 2021, 10, 414-430. | 2.6 | 25 |
| 68 | Investigation of five different low-cost locally available isolation layer materials used in sliding base isolation systems. Soil Dynamics and Earthquake Engineering, 2022, 154, 107127. | 1.9 | 25 |
| 69 | Thermoelastic behavior of a thermoelectric thin-film attached to an infinite elastic substrate. Philosophical Magazine, 2017, 97, 43-57. | 0.7 | 24 |
| 70 | Damage detection and localization of a steel truss bridge model subjected to impact and white noise excitations using empirical wavelet transform neural network approach. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110060. | 2.5 | 24 |
| 71 | Mechanical model for a thermoelectric thin film bonded to an elastic infinite substrate. Mechanics of Materials, 2017, 114, 88-96. | 1.7 | 23 |
| 72 | Effect of Specimen Shapes on Compressive Strength of Engineered Cementitious Composites (ECCs) with Different Values of Water-to-Binder Ratio and PVA Fiber. Arabian Journal for Science and Engineering, 2018, 43, 1825-1837. | 1.7 | 23 |

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| 73 | Effect of capillary number on morphological characterizations of trapped gas bubbles: Study by using micro-tomography. International Journal of Heat and Mass Transfer, 2020, 163, 120508. | 2.5 | 23 |
| 74 | Piezoresistive properties of cement composites reinforced by functionalized carbon nanotubes using photo-assisted Fenton. Smart Materials and Structures, 2017, 26, 035025. | 1.8 | 22 |
| 75 | Dataâ€driven system parameter change detection for a chainâ€like uncertainties embedded structure. Structural Control and Health Monitoring, 2021, 28, e2821. | 1.9 | 22 |
| 76 | Reliability analysis of girder bridge piers subjected to barge collisions. Structure and Infrastructure Engineering, 2019, 15, 1200-1220. | 2.0 | 21 |
| 77 | A novel cellular substrate for flexible electronics with negative Poisson ratios under large stretching. International Journal of Mechanical Sciences, 2019, 151, 314-321. | 3.6 | 21 |
| 78 | Pore-scale study of in-situ surfactant flooding with strong oil emulsification in sandstone based on X-ray microtomography. Journal of Industrial and Engineering Chemistry, 2021, 98, 247-261. | 2.9 | 21 |
| 79 | Nonlinear failure analysis of bridge pier subjected to vessel impact combined with blast loads. Ocean Engineering, 2021, 234, 109209. | 1.9 | 21 |
| 80 | Development of P-I model for FRP composite retrofitted RC columns subjected to high strain rate loads using LBE function. Engineering Structures, 2022, 252, 113580. | 2.6 | 21 |
| 81 | Influence of seismic orientation on the statistical distribution of nonlinear seismic response of the stiffness-eccentric structure. Structures, 2022, 39, 387-404. | 1.7 | 19 |
| 82 | Experimental Investigation on Semi-Active Control of Base Isolation System Using Magnetorheological Dampers for Concrete Frame Structure. Applied Sciences (Switzerland), 2019, 9, 3866. | 1.3 | 18 |
| 83 | An empirical timeâ€domain trend lineâ€based bridge signal decomposing algorithm using Savitzkyâ€“Golay filter. Structural Control and Health Monitoring, 2021, 28, e2750. | 1.9 | 17 |
| 84 | Swinging motion control of suspended structures: Principles and applications. Structural Control and Health Monitoring, 2009, 17, n/a-n/a. | 1.9 | 15 |
| 85 | Design and Experimental Investigations of a Vibration Based Wireless Measurement System for Bridge Cable Tension Monitoring. Advances in Structural Engineering, 2014, 17, 1657-1668. | 1.2 | 15 |
| 86 | Thermal shock fracture mechanics of a cracked solid based on the dual-phase-lag heat conduction theory considering inertia effect. Theoretical and Applied Fracture Mechanics, 2016, 86, 309-316. | 2.1 | 15 |
| 87 | Stochastic extreme motion analysis of jack-up responses during wet towing. Ocean Engineering, 2016, 111, 56-66. | 1.9 | 15 |
| 88 | Theoretical and numerical investigation on in-plane impact performance of chiral honeycomb core structure. Journal of Structural Integrity and Maintenance, 2018, 3, 95-105. | 0.7 | 15 |
| 89 | Control strategies and experimental verifications of the electromagnetic mass damper system for structural vibration control. Earthquake Engineering and Engineering Vibration, 2008, 7, 181-192. | 1.1 | 14 |
| 90 | Effect of zirconia nanoparticles on the rheological properties of silica-based shear thickening fluid. Materials Research Express, 2018, 5, 055705. | 0.8 | 14 |

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| 91 | Theoretical model of fatigue crack growth of a thermoelectric pn-junction bonded to an elastic substrate. Mechanics of Materials, 2020, 151, 103623. | 1.7 | 14 |
| 92 | Failure Probabilities of FRP Strengthened RC Column to Blast Loads. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.3 | 13 |
| 93 | Microwave Non-Destructive Inspection and Prediction of Modulus of Rupture and Modulus of Elasticity of Engineered Cementitious Composites (ECCs) Using Dual-Frequency Correlation. Sensors, 2017, 17, 2831. | 2.1 | 12 |
| 94 | Analysis of delamination of unimorph cantilever piezoelectric energy harvesters. Journal of Intelligent Material Systems and Structures, 2018, 29, 1875-1883. | 1.4 | 12 |
| 95 | Bridge Abutment Movement and Approach Settlement â€" A Case Study and Scenario Analysis. International Journal of Structural Stability and Dynamics, 2018, 18, 1840011. | 1.5 | 12 |
| 96 | Effects of appearance characteristics on the mechanical properties of defective SWCNTs: using finite element methods and molecular dynamics simulation. European Physical Journal Plus, 2021, 136, 1. | 1.2 | 12 |
| 97 | Numerical Investigation on the Non-Linear Response of Reinforced Concrete (RC) Columns Subjected to Extreme Dynamic Loads. Journal of Asian Scientific Research, 2017, 7, 86-98. | 0.0 | 11 |
| 98 | Prediction of Residual Axial Load Carrying Capacity of Reinforced Concrete (RC) Columns Subjected to Extreme Dynamic Loads. American Journal of Engineering and Applied Sciences, 2017, 10, 431-448. | 0.3 | 11 |
| 99 | Free vibrations of rotating CNTRC beams in thermal environment. Case Studies in Thermal Engineering, 2021, 28, 101355. | 2.8 | 11 |
| 100 | Insight into energy dissipation behavior of a SDOF structure controlled by the pounding tuned mass damper system. Earthquake Engineering and Structural Dynamics, 2022, 51, 958-973. | 2.5 | 11 |
| 101 | Strength Correlation and Prediction of Engineered Cementitious Composites with Microwave Properties. Applied Sciences (Switzerland), 2017, 7, 35. | 1.3 | 10 |
| 102 | Review of the basics of state of the art of blast loading. Asian Journal of Civil Engineering, 2018, 19, 775-791. | 0.8 | 10 |
| 103 | Effects of Dissolution Fingering on Mass Transfer Rate in Threeâ€Dimensional Porous Media. Water Resources Research, 2021, 57, e2020WR029353. | 1.7 | 10 |
| 104 | Wave propagation analysis of sandwich FGM nanoplate surrounded by viscoelastic foundation. Archives of Civil and Mechanical Engineering, 2022, 22, . | 1.9 | 10 |
| 105 | Numerical simulation of dynamic response and collapse for steel frame structures subjected to blast load. Transactions of Tianjin University, 2008, 14, 523-529. | 3.3 | 9 |
| 106 | Polarization-Rotated Waveguide Antennas for Base-Station Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1545-1548. | 2.4 | 9 |
| 107 | Effect of seawater exposure on compressive behavior of concrete columns reinforced longitudinally with glass fiber reinforced polymer bars. Journal of Composite Materials, 2018, 52, 2289-2299. | 1.2 | 9 |
| 108 | Fracture analysis of flexoelectric double cantilever beams based on the strain gradient theory. Composite Structures, 2018, 202, 1322-1329. | 3.1 | 9 |

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| 109 | Investigation into Damage Criterion and Failure Modes of RC Structures When Subjected to Extreme Dynamic Loads. Archives of Computational Methods in Engineering, 2020, 27, 501-515. | 6.0 | 9 |
| 110 | Pore-scale investigation of wettability impact on residual nonaqueous phase liquid dissolution in natural porous media. Science of the Total Environment, 2021, 787, 147406. | 3.9 | 9 |
| 111 | Damage detection and characterization of a scaled model steel truss bridge using combined complete ensemble empirical mode decomposition with adaptive noise and multiple signal classification approach. Structural Health Monitoring, 2022, 21, 1833-1848. | 4.3 | 9 |
| 112 | Evaluating contradictory relationship between floor rotation and torsional irregularity coefficient under varying orientations of ground motion. Earthquake and Structures, 2016, 11, 1027-1041. | 1.0 | 9 |
| 113 | Seismic performance assessment of steel frames with slack cable bracing systems. Engineering Structures, 2022, 250, 113437. | 2.6 | 9 |
| 114 | Intrinsic Sensing Properties of Chrysotile Fiber Reinforced Piezoelectric Cement-Based Composites. Sensors, 2018, 18, 2999. | 2.1 | 8 |
| 115 | An Updated Analytical Structural Pounding Force Model Based on Viscoelasticity of Materials. Shock and Vibration, 2016, 2016, 1-15. | 0.3 | 7 |
| 116 | Correlation between microwave properties and compressive strength of engineered cementitious mortar. Microwave and Optical Technology Letters, 2016, 58, 2696-2699. | 0.9 | 7 |
| 117 | Pushover Analysis on Infill Effects on the Failure Pattern of Reinforced Concrete Frames. Applied Sciences (Switzerland), 2017, 7, 428. | 1.3 | 7 |
| 118 | Response Simulation, Data Cleansing and Restoration of Dynamic and Static Measurements Based on Deep Learning Algorithms. International Journal of Concrete Structures and Materials, 2018, 12, . | 1.4 | 7 |
| 119 | A Zhong-Shaped Patch Antenna. , 2018, , . | | 7 |
| 120 | Kanji Patch Antennas. , 2018, , . | | 7 |
| 121 | Real-Time Tracking of Structural Stiffness Reduction with Unknown Inputs, Using Self-Adaptive Recursive Least-Square and Curvature-Change Techniques. International Journal of Structural Stability and Dynamics, 2019, 19, 1950123. | 1.5 | 7 |
| 122 | Axial Compressive Behavior of Steel-Damping-Concrete Composite Wall. Applied Sciences (Switzerland), 2019, 9, 4679. | 1.3 | 7 |
| 123 | Thermo-mechanical buckling analysis of FG-GNPs reinforced composites sandwich microplates using a trigonometric four-variable shear deformation theory. Case Studies in Thermal Engineering, 2021, 26, 101120. | 2.8 | 7 |
| 124 | A hybrid sequential approach for solving environmentally constrained optimal scheduling in co-generation systems. Energy Reports, 2021, 7, 3460-3479. | 2.5 | 7 |
| 125 | Modified couple stress theory application to analyze mechanical buckling behavior of three-layer rectangular microplates with honeycomb core and piezoelectric face sheets. Composite Structures, 2022, 292, 115582. | 3.1 | 7 |
| 126 | Shake Table Test for the Collapse Investigation of a Typical Multi-Story Reinforced Concrete Frame Structure in the Meizoseismal Area. Applied Sciences (Switzerland), 2017, 7, 593. | 1.3 | 6 |

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| 127 | Fracture analysis of superconducting composites with a sandwich structure based on electromagneticâ€“thermal coupled model. Acta Mechanica, 2019, 230, 4435-4451. | 1.1 | 6 |
| 128 | Size effect on thermo-mechanical instability of micro/nano scale organic solar cells. Meccanica, 2022, 57, 87-107. | 1.2 | 6 |
| 129 | Pore-scale investigation on microemulsion-based quasi-miscible flooding for EOR in water-wet/oil-wet reservoirs: A 3D study by X-ray microtomography. Journal of Petroleum Science and Engineering, 2022, 216, 110788. | 2.1 | 6 |
| 130 | Coupled and uncoupled seepage-stress analysis of roller compacted concrete dams. ISH Journal of Hydraulic Engineering, 2017, 23, 92-101. | 1.1 | 5 |
| 131 | Effectiveness of Using Polymer Bumpers to Mitigate Earthquake-Induced Pounding between Buildings of Unequal Heights. Advances in Civil Engineering, 2018, 2018, 1-14. | 0.4 | 5 |
| 132 | Automated layout design of multi-span reinforced concrete beams using charged system search algorithm. Engineering Computations, 2018, 35, 1402-1413. | 0.7 | 5 |
| 133 | Strength Prediction and Correlation of Cement Composites: A Cross-Disciplinary Approach. IEEE Access, 2019, 7, 41746-41756. | 2.6 | 5 |
| 134 | Anti-plane fracture mechanics analysis of a piezoelectric material layer with strain and electric field gradient effects. Mechanics Research Communications, 2019, 102, 103439. | 1.0 | 5 |
| 135 | On the asymmetric thermal stability of FGM annular plates reinforced with graphene nanoplatelets. Engineering With Computers, 2022, 38, 4569-4581. | 3.5 | 5 |
| 136 | A stochastic analysis framework for a steel frame structure using wireless sensor system measurements. Measurement: Journal of the International Measurement Confederation, 2015, 69, 202-209. | 2.5 | 4 |
| 137 | A study into the PIN diode-based active metasurface for beam steering applications. , 2017, , . | | 4 |
| 138 | Numerical Analysis and Optimization on Piezoelectric Properties of 0â€“3 Type Piezoelectric Cement-Based Materials with Interdigitated Electrodes. Applied Sciences (Switzerland), 2017, 7, 233. | 1.3 | 4 |
| 139 | Computer-Aided Analysis of Flow in Water Pipe Networks after a Seismic Event. Mathematical Problems in Engineering, 2017, 2017, 1-14. | 0.6 | 4 |
| 140 | Mechanical and Damping Properties of Wood Plastic Composite Modified by Ground Waste Rubber Tire. Progress in Rubber, Plastics and Recycling Technology, 2017, 33, 127-138. | 0.8 | 4 |
| 141 | Preface: Recent Advances on Structural Control, Health Monitoring and Applications in Bridge Engineering. International Journal of Structural Stability and Dynamics, 2018, 18, 1802001. | 1.5 | 4 |
| 142 | Monitoring of Mix-Proportions of Concrete by Using Microwave Permittivity Measurement. , 2018, , . | | 4 |
| 143 | Stress Response and Damage Characteristics of Local Members of a Structure due to Tunnel Blasting Vibrations Based on the High-Order Local Modal Analysis. Shock and Vibration, 2019, 2019, 1-18. | 0.3 | 4 |
| 144 | Isogeometric analysis of bending, vibration, and buckling behaviors of multilayered microplates based on the non-classical refined shear deformation theory. Acta Mechanica, 2021, 232, 2991-3010. | 1.1 | 4 |

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| 145 | Wireless inclinometer acquisition system for reducing swing movement control module experiment of hook model. , 2008, , . | | 3 |
| 146 | Sunlight irradiation and wind effect on the interlaminar stresses of the organic solar cell. Archive of Applied Mechanics, 2021, 91, 3203-3221. | 1.2 | 3 |
| 147 | Experimental investigation of solute transport in variably saturated porous media using x-ray computed tomography. Physics of Fluids, 2021, 33, . | 1.6 | 3 |
| 148 | DESIGN CRITERIA FOR A CONTROLLED DEMOLITION (IMPLOSION). International Journal of GEOMATE, 2019, 16, . | 0.1 | 3 |
| 149 | Dynamic Test and Constitutive Model of 225 MPa Low Yield Point Steel Material and its Energy Absorption Ability. International Journal of Protective Structures, 2011, 2, 527-540. | 1.4 | 2 |
| 150 | Preliminary Numerical Study on TRID System for Flutter Vibration Control of Bridge Structure. Procedia Engineering, 2011, 14, 2796-2806. | 1.2 | 2 |
| 151 | Performance enhancement of circularly-polarized patch array using anisotropic metasurface. , 2015, , . | | 2 |
| 152 | Microwave near-field noninvasive prediction of compressive strength of Engineered Cementitious Composites (ECCs). , 2015, , . | | 2 |
| 153 | Determination of water content for early-age concrete based on dielectric constant. , 2017, , . | | 2 |
| 154 | Seismic Performance and Ice-Induced Vibration Control of Offshore Platform Structures Based on the ISO-PFD-SMA Brace System. Advances in Materials Science and Engineering, 2017, 2017, 1-15. | 1.0 | 2 |
| 155 | Design strategies for fragment and projectile penetration into steel and concrete structural elements using CONWEP. Asian Journal of Civil Engineering, 2018, 19, 793-809. | 0.8 | 2 |
| 156 | Design criteria essential for an uncontrolled demolition (explosion). Asian Journal of Civil Engineering, 2019, 20, 351-369. | 0.8 | 2 |
| 157 | Surfactant-Assisted Processing of Carbon Nanotube Cement-Based Nanocomposites: Microstructural, Electrical, and Mechanical Properties. Nanoscience and Nanotechnology Letters, 2018, 10, 237-243. | 0.4 | 2 |
| 158 | Reliability Based Analysis and Design of a Tripod Offshore Wind Turbine Structure Assuring Serviceability Performance. Polish Maritime Research, 2018, 25, 139-148. | 0.6 | 2 |
| 159 | Mass Inertia Effect Based Vibration Control Systems for Civil Engineering Structure and Infrastructure. , 0, , . | | 2 |
| 160 | Instability and post-instability examination due to the buckling of rotating nanocomposite beams in thermal ambient. International Journal of Mechanics and Materials in Design, 2022, 18, 87-103. | 1.7 | 2 |
| 161 | Some special phenomena and preliminary interpretations about measured strain signals from high-speed impact tests. International Journal of Structural Engineering, 2012, 3, 48. | 0.3 | 1 |
| 162 | Design of self-contained sensor for monitoring of deep-sea offshore platform. Proceedings of SPIE, 2013, , . | 0.8 | 1 |

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| 163 | Optimal bandwidth of concrete embedded antenna for wireless power transmission. , 2016, , . | | 1 |
| 164 | Metasurfaced waveguide antenna with polarization rotation. Microwave and Optical Technology Letters, 2017, 59, 1084-1087. | 0.9 | 1 |
| 165 | Dielectric constant modelling of Chinese-standard concretes for wireless monitoring of structures. , 2017, , . | | 1 |
| 166 | Numerical Simulation of Pile-Soil Interface Cyclic Weakening Effect by Particle Flow Code (PFC). , 2019, , . | | 1 |
| 167 | Analyzing size effects in a cracked orthotropic layer under antiplane shear loading. Archive of Applied Mechanics, 2021, 91, 1097-1112. | 1.2 | 1 |
| 168 | Dissolution Mass Transfer of Trapped Phase in Porous Media. , 0, , . | | 1 |
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