Hong Hao

List of Publications by Citations

691 papers	17,925 citations	66 h-index	94 g-index
716 ext. papers	22,540 ext. citations	3.8 avg, IF	7.8 L-index

#	Paper	IF	Citations
691	Numerical derivation of pressure-impulse diagrams for prediction of RC column damage to blast loads. *International Journal of Impact Engineering*, **2008**, 35, 1213-1227	4	267
690	Modelling of compressive behaviour of concrete-like materials at high strain rate. *International Journal of Solids and Structures*, **2008**, 45, 4648-4661	3.1	265
689	Multiple-station ground motion processing and simulation based on smart-1 array data. *Nuclear Engineering and Design*, **1989**, 111, 293-310	1.8	216
688	Long term vibration monitoring of an RC slab: Temperature and humidity effect. *Engineering Structures*, **2006**, 28, 441-452	4.7	214
687	Civil structure condition assessment by FE model updating:: methodology and case studies. *Finite Elements in Analysis and Design*, **2001**, 37, 761-775	2.2	207
686	Vibration-based Damage Detection of Structures by Genetic Algorithm. *Journal of Computing in Civil Engineering*, **2002**, 16, 222-229	5	188
685	Numerical study of concrete spall damage to blast loads. *International Journal of Impact Engineering* , **2014**, 68, 41-55	4	151
684	Structural damage identification based on autoencoder neural networks and deep learning. *Engineering Structures*, **2018**, 172, 13-28	4.7	140
683	Dynamic compressive behaviour of spiral steel fibre reinforced concrete in split Hopkinson pressure bar tests. *Construction and Building Materials*, **2013**, 48, 521-532	6.7	140
682	Numerical prediction of concrete slab response to blast loading. *International Journal of Impact Engineering*, **2008**, 35, 1186-1200	4	138
681	Review of the current practices in blast-resistant analysis and design of concrete structures. *Advances in Structural Engineering*, **2016**, 19, 1193-1223	1.9	136
680	A new method for progressive collapse analysis of RC frames under blast loading. *Engineering Structures*, **2010**, 32, 1691-1703	4.7	135
679	Mesoscale modelling of concrete tensile failure mechanism at high strain rates. *Computers and Structures*, **2008**, 86, 2013-2026	4.5	133
678	Structural response of modular buildings – An overview. *Journal of Building Engineering*, **2018**, 16, 45-56	5.2	132
677	Modeling of simultaneous ground shock and airblast pressure on nearby structures from surface explosions. *International Journal of Impact Engineering*, **2005**, 31, 699-717	4	131
676	Statistical damage identification of structures with frequency changes. *Journal of Sound and Vibration*, **2003**, 263, 853-870	3.9	128
675	Modelling and simulation of spatially varying earthquake ground motions at sites with varying conditions. *Probabilistic Engineering Mechanics*, **2012**, 29, 92-104	2.6	122

674	Static and dynamic mechanical properties of expanded polystyrene. *Materials & Design*, **2015**, 69, 170-180		122
673	Influence of the concrete DIF model on the numerical predictions of RC wall responses to blast loadings. *Engineering Structures*, **2014**, 73, 24-38	4.7	121
672	An experimental and numerical study of reinforced ultra-high performance concrete slabs under blast loads. *Materials and Design*, **2015**, 82, 64-76	8.1	118
671	Synthesis of high strength ambient cured geopolymer composite by using low calcium fly ash. *Construction and Building Materials*, **2016**, 125, 809-820	6.7	118
670	Damage detection using artificial neural network with consideration of uncertainties. *Engineering Structures*, **2007**, 29, 2806-2815	4.7	118
669	Experimental confirmation of some factors influencing dynamic concrete compressive strengths in high-speed impact tests. *Cement and Concrete Research*, **2013**, 52, 63-70	10.3	116
668	Modeling of wave propagation induced by underground explosion. *Computers and Geotechnics*, **1998**, 22, 283-303	4.4	109
667	Seismic response of multi-span simply supported bridges to a spatially varying earthquake ground motion. *Earthquake Engineering and Structural Dynamics*, **2002**, 31, 1325-1345	4	108
666	Using multiple tuned mass dampers to control offshore wind turbine vibrations under multiple hazards. *Engineering Structures*, **2017**, 141, 303-315	4.7	107
665	Laboratory tests and numerical simulations of barge impact on circular reinforced concrete piers. *Engineering Structures*, **2013**, 46, 593-605	4.7	106
664	Nonlinear finite element analysis of barge collision with a single bridge pier. *Engineering Structures*, **2012**, 41, 63-76	4.7	104
663	Damage identification of structures with uncertain frequency and mode shape data. *Earthquake Engineering and Structural Dynamics*, **2002**, 31, 1053-1066	4	103
662	Experimental study of dynamic compressive properties of fibre reinforced concrete material with different fibres. *Materials & Design*, **2012**, 33, 42-55		100
661	Numerical Analysis of Lateral Inertial Confinement Effects on Impact Test of Concrete Compressive Material Properties. *International Journal of Protective Structures*, **2010**, 1, 145-167	1.5	100
660	Reliability analysis of direct shear and flexural failure modes of RC slabs under explosive loading. *Engineering Structures*, **2002**, 24, 189-198	4.7	100
659	Numerical analysis of prestressed reinforced concrete beam subjected to blast loading. *Materials & Design*, **2015**, 65, 662-674		95
658	Reliability analysis of reinforced concrete slabs under explosive loading. *Structural Safety*, **2001**, 23, 157-178	4.7	94
657	Numerical simulation of a cable-stayed bridge response to blast loads, Part I: Model development and response calculations. *Engineering Structures*, **2010**, 32, 3180-3192	4.7	93

656	Impact Behavior of FRP-Strengthened RC Beams without Stirrups. *Journal of Composites for Construction*, **2016**, 20, 04016011	3.3	92
655	Parametric study of laminated glass window response to blast loads. *Engineering Structures*, **2013**, 56, 1707-1717	4.7	91
654	Behaviour of ultra high performance fibre reinforced concrete columns subjected to blast loading. *Engineering Structures*, **2016**, 118, 97-107	4.7	90
653	Laboratory test and numerical simulation of laminated glass window vulnerability to debris impact. *International Journal of Impact Engineering*, **2013**, 55, 49-62	4	89
652	Development of P-I diagrams for FRP strengthened RC columns. *International Journal of Impact Engineering*, **2011**, 38, 290-304	4	88
651	Dynamic responses and failure modes of bridge columns under vehicle collision. *Engineering Structures*, **2018**, 156, 243-259	4.7	83
650	Review of Concrete Structures Strengthened with FRP Against Impact Loading. *Structures*, **2016**, 7, 59-70	3.4	83
649	Prediction of airblast loads on structures behind a protective barrier. *International Journal of Impact Engineering*, **2008**, 35, 363-375	4	82
648	Numerical Evaluation of the Influence of Aggregates on Concrete Compressive Strength at High Strain Rate. *International Journal of Protective Structures*, **2011**, 2, 177-206	1.5	81
647	Review of bolted inter-module connections in modular steel buildings. *Journal of Building Engineering*, **2019**, 23, 207-219	5.2	80
646	A full coupled numerical analysis approach for buried structures subjected to subsurface blast. *Computers and Structures*, **2005**, 83, 339-356	4.5	80
645	Numerical analysis of concrete material properties at high strain rate under direct tension. *International Journal of Impact Engineering*, **2012**, 39, 51-62	4	79
644	Guided wave propagation and spectral element method for debonding damage assessment in RC structures. *Journal of Sound and Vibration*, **2009**, 324, 751-772	3.9	79
643	The mechanical properties of Polyvinyl Butyral (PVB) at high strain rates. *Construction and Building Materials*, **2015**, 93, 404-415	6.7	78
642	Numerical simulation of pounding damage to bridge structures under spatially varying ground motions. *Engineering Structures*, **2013**, 46, 62-76	4.7	77
641	Investigation of ultra-high performance concrete slab and normal strength concrete slab under contact explosion. *Engineering Structures*, **2015**, 102, 395-408	4.7	76
640	Influence of end friction confinement on impact tests of concrete material at high strain rate. *International Journal of Impact Engineering*, **2013**, 60, 82-106	4	76
639	Experimental investigation of ultra-high performance concrete slabs under contact explosions. *International Journal of Impact Engineering*, **2016**, 93, 62-75	4	74

638	Numerical Analysis of Blast-Induced Stress Waves in a Rock Mass with Anisotropic Continuum Damage Models Part 1: Equivalent Material Property Approach. *Rock Mechanics and Rock Engineering*, **2002**, 35, 79-94	5.7	73
637	Numerical simulation of a cable-stayed bridge response to blast loads, Part II: Damage prediction and FRP strengthening. *Engineering Structures*, **2010**, 32, 3193-3205	4.7	71
636	A three-phase soil model for simulating stress wave propagation due to blast loading. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2004**, 28, 33-56	4	71
635	Characteristics of surface ground motions induced by blasts in jointed rock mass. *Soil Dynamics and Earthquake Engineering*, **2001**, 21, 85-98	3.5	71
634	Experimental Study of Dynamic Material Properties of Clay Brick and Mortar at Different Strain Rates. *Australian Journal of Structural Engineering*, **2008**, 8, 117-132	1.4	70
633	Study of SSI and non-uniform ground motion effect on pounding between bridge girders. *Soil Dynamics and Earthquake Engineering*, **2005**, 25, 717-728	3.5	70
632	Effect of the plastic hinge and boundary conditions on the impact behavior of reinforced concrete beams. *International Journal of Impact Engineering*, **2017**, 102, 74-85	4	68
631	Experimental study of flexural behaviour of RC beams strengthened by longitudinal and U-shaped basalt FRP sheet. *Composites Part B: Engineering*, **2018**, 134, 114-126	10	68
630	Pounding Damage to Buildings and Bridges in the 22 February 2011 Christchurch Earthquake. *International Journal of Protective Structures*, **2012**, 3, 123-139	1.5	68
629	Propagation characteristics of blast-induced shock waves in a jointed rock mass. *Soil Dynamics and Earthquake Engineering*, **1998**, 17, 407-412	3.5	68
628	Sensitivity of impact behaviour of RC beams to contact stiffness. *International Journal of Impact Engineering*, **2018**, 112, 155-164	4	67
627	Numerical Investigation of the Dynamic Compressive Behaviour of Rock Materials at High Strain Rate. *Rock Mechanics and Rock Engineering*, **2013**, 46, 373-388	5.7	67
626	Building vibration to traffic-induced ground motion. *Building and Environment*, **2001**, 36, 321-336	6.5	67
625	Laboratory Test on Dynamic Material Properties of Annealed Float Glass. *International Journal of Protective Structures*, **2012**, 3, 407-430	1.5	66
624	Significance of SSI and nonuniform near-fault ground motions in bridge response I: Effect on response with conventional expansion joint. *Engineering Structures*, **2008**, 30, 141-153	4.7	66
623	Time-varying system identification using a newly improved HHT algorithm. *Computers and Structures*, **2009**, 87, 1611-1623	4.5	65
622	Numerical simulation of blast wave interaction with structure columns. *Shock Waves*, **2007**, 17, 113-133	1.6	65
621	Plastic hinges and inertia forces in RC beams under impact loads. *International Journal of Impact Engineering*, **2017**, 103, 1-11	4	63

620	Mesoscale modelling and analysis of damage and fragmentation of concrete slab under contact detonation. *International Journal of Impact Engineering*, **2009**, 36, 1315-1326	4	62
619	Seismic fragility analyses of sea-crossing cable-stayed bridges subjected to multi-support ground motions on offshore sites. *Engineering Structures*, **2018**, 165, 441-456	4.7	61
618	Experimental investigation of the response of precast segmental columns subjected to impact loading. *International Journal of Impact Engineering*, **2016**, 95, 105-124	4	61
617	Discussion on the suitability of concrete constitutive models for high-rate response predictions of RC structures. *International Journal of Impact Engineering*, **2017**, 106, 202-216	4	60
616	Experimental study of laminated glass window responses under impulsive and blast loading. *International Journal of Impact Engineering*, **2015**, 78, 1-19	4	60
615	Mechanical properties of ambient cured high strength hybrid steel and synthetic fibers reinforced geopolymer composites. *Cement and Concrete Composites*, **2018**, 85, 133-152	8.6	59
614	Numerical prediction of blast-induced stress wave from large-scale underground explosion. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2004**, 28, 93-109	4	59
613	Static and dynamic material properties of CFRP/epoxy laminates. *Construction and Building Materials*, **2016**, 114, 638-649	6.7	59
612	Specimen shape and size effects on the concrete compressive strength under static and dynamic tests. *Construction and Building Materials*, **2018**, 161, 84-93	6.7	59
611	Mesoscale modelling of fibre reinforced concrete material under compressive impact loading. *Construction and Building Materials*, **2012**, 26, 274-288	6.7	58
610	Using pipe-in-pipe systems for subsea pipeline vibration control. *Engineering Structures*, **2016**, 109, 75-84	4.7	57
609	Micro-seismic event detection and location in underground mines by using Convolutional Neural Networks (CNN) and deep learning. *Tunnelling and Underground Space Technology*, **2018**, 81, 265-276	5.7	57
608	Numerical derivation of homogenized dynamic masonry material properties with strain rate effects. *International Journal of Impact Engineering*, **2009**, 36, 522-536	4	57
607	The use of a non-probabilistic artificial neural network to consider uncertainties in vibration-based-damage detection. *Mechanical Systems and Signal Processing*, **2017**, 83, 194-209	7.8	56
606	Improved damage identification in bridge structures subject to moving loads: Numerical and experimental studies. *International Journal of Mechanical Sciences*, **2013**, 74, 99-111	5.5	56
605	Dynamic response and damage analysis of masonry structures and masonry infilled RC frames to blast ground motion. *Engineering Structures*, **2005**, 27, 323-333	4.7	56
604	Dynamic analyses of operating offshore wind turbines including soil-structure interaction. *Engineering Structures*, **2018**, 157, 42-62	4.7	56
603	Quasi-static and dynamic tensile properties of basalt fibre reinforced polymer. *Composites Part B: Engineering*, **2017**, 125, 123-133	10	55

602	Behavior of fiber-reinforced polymer-strengthened reinforced concrete beams under static and impact loads. *International Journal of Protective Structures*, **2017**, 8, 3-24	1.5	55
601	Numerical investigation of the behavior of precast concrete segmental columns subjected to vehicle collision. *Engineering Structures*, **2018**, 156, 375-393	4.7	55
600	Influence of ground motion spatial variation, site condition and SSI on the required separation distances of bridge structures to avoid seismic pounding. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 1027-1043	4	54
599	Numerical study of precast segmental column under blast loads. *Engineering Structures*, **2017**, 134, 125-137	4.7	53
598	Effects of random variations of soil properties on site amplification of seismic ground motions. *Soil Dynamics and Earthquake Engineering*, **2002**, 22, 551-564	3.5	53
597	Energy appproach in peformance-based seismic design of steel moment resisting frames for basic safety objective. *Structural Design of Tall Buildings*, **2001**, 10, 193-217		53
596	Impact force profile and failure classification of reinforced concrete bridge columns against vehicle impact. *Engineering Structures*, **2019**, 183, 443-458	4.7	53
595	Performance of an innovative self-centering buckling restrained brace for mitigating seismic responses of bridge structures with double-column piers. *Engineering Structures*, **2017**, 148, 47-62	4.7	52
594	Dynamic material model of annealed soda-lime glass. *International Journal of Impact Engineering*, **2015**, 77, 108-119	4	51
593	Numerical study on the seismic performance of precast segmental concrete columns under cyclic loading. *Engineering Structures*, **2017**, 148, 373-386	4.7	51
592	Development and application of a deep learning-based sparse autoencoder framework for structural damage identification. *Structural Health Monitoring*, **2019**, 18, 103-122	4.4	51
591	Numerical study of a new multi-arch double-layered blast-resistance door panel. *International Journal of Impact Engineering*, **2012**, 43, 16-28	4	50
590	Spatial ground motion effect on relative displacement of adjacent building structures. *Earthquake Engineering and Structural Dynamics*, **1999**, 28, 333-349	4	50
589	Damage detection in bridge structures under moving loads with phase trajectory change of multi-type vibration measurements. *Mechanical Systems and Signal Processing*, **2017**, 87, 410-425	7.8	49
588	Transient dynamic fracture analysis using scaled boundary finite element method: a frequency-domain approach. *Engineering Fracture Mechanics*, **2007**, 74, 669-687	4.2	49
587	Development and application of a relative displacement sensor for structural health monitoring of composite bridges. *Structural Control and Health Monitoring*, **2015**, 22, 726-742	4.5	48
586	Experimental investigation of spatially varying effect of ground motions on bridge pounding. *Earthquake Engineering and Structural Dynamics*, **2012**, 41, 1959-1976	4	48
585	A state-of-the-art review on the vibration mitigation of wind turbines. *Renewable and Sustainable Energy Reviews*, **2020**, 121, 109710	16.2	46

584	A parametric study of the required seating length for bridge decks during earthquake. *Earthquake Engineering and Structural Dynamics*, **1998**, 27, 91-103	4	45
583	Numerical research on seismic response characteristics of shallow buried rectangular underground structure. *Soil Dynamics and Earthquake Engineering*, **2019**, 116, 242-252	3.5	45
582	Influence of global stiffness and equivalent model on prediction of impact response of RC beams. *International Journal of Impact Engineering*, **2018**, 113, 88-97	4	45
581	Post-blast capacity of ultra-high performance concrete columns. *Engineering Structures*, **2017**, 134, 289-302	4.7	44
580	Time-varying system identification using variational mode decomposition. *Structural Control and Health Monitoring*, **2018**, 25, e2175	4.5	44
579	Predictions of Structural Response to Dynamic Loads of Different Loading Rates. *International Journal of Protective Structures*, **2015**, 6, 585-605	1.5	44
578	Significance of SSI and non-uniform near-fault ground motions in bridge response II: Effect on response with modular expansion joint. *Engineering Structures*, **2008**, 30, 154-162	4.7	44
577	Integrated ARMA model method for damage detection of subsea pipeline system. *Engineering Structures*, **2013**, 48, 176-192	4.7	43
576	A study of RC bridge columns under contact explosion. *International Journal of Impact Engineering*, **2017**, 109, 378-390	4	43
575	Numerical study of low-speed impact response of sandwich panel with tube filled honeycomb core. *Composite Structures*, **2019**, 220, 736-748	5.3	42
574	Damage Identification Scheme Based on Compressive Sensing. *Journal of Computing in Civil Engineering*, **2015**, 29, 04014037	5	42
573	3D meso-scale modelling of concrete material in spall tests. *Materials and Structures/Materiaux Et Constructions*, **2015**, 48, 1887-1899	3.4	42
572	Fatigue reliability evaluation of deck-to-rib welded joints in OSD considering stochastic traffic load and welding residual stress. *International Journal of Fatigue*, **2018**, 111, 151-160	5	42
571	Influence of irregular topography and random soil properties on coherency loss of spatial seismic ground motions. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 1045-1061	4	42
570	Prediction of fragment size and ejection distance of masonry wall under blast load using homogenized masonry material properties. *International Journal of Impact Engineering*, **2009**, 36, 808-820	4	42
569	Anisotropic dynamic damage and fragmentation of rock materials under explosive loading. *International Journal of Engineering Science*, **2003**, 41, 917-929	5.7	42
568	Experimental and numerical study of boundary and anchorage effect on laminated glass windows under blast loading. *Engineering Structures*, **2015**, 90, 96-116	4.7	41
567	Effectiveness of using rubber bumper and restrainer on mitigating pounding and unseating damage of bridge structures subjected to spatially varying ground motions. *Engineering Structures*, **2014**, 79, 195-210	4.7	41

566	Experimental and numerical study of composite lightweight structural insulated panel with expanded polystyrene core against windborne debris impacts. *Materials & Design*, **2014**, 60, 409-423		41
565	Numerical study of structural progressive collapse using substructure technique. *Engineering Structures*, **2013**, 52, 101-113	4.7	41
564	RC Column Failure Probabilities to Blast Loads. *International Journal of Protective Structures*, **2010**, 1, 571-591	1.5	41
563	Numerical study of characteristics of underground blast induced surface ground motion and their effect on above-ground structures. Part I. Ground motion characteristics. *Soil Dynamics and Earthquake Engineering*, **2005**, 25, 27-38	3.5	41
562	MEASUREMENT SELECTION FOR VIBRATION-BASED STRUCTURAL DAMAGE IDENTIFICATION. *Journal of Sound and Vibration*, **2000**, 236, 89-104	3.9	41
561	Laboratory Tests and Numerical Simulations of CFRP Strengthened RC Pier Subjected to Barge Impact Load. *International Journal of Structural Stability and Dynamics*, **2015**, 15, 1450037	1.9	40
560	Evaluation of dynamic vehicle axle loads on bridges with different surface conditions. *Journal of Sound and Vibration*, **2009**, 323, 826-848	3.9	40
559	Ground motion modeling for multiple-input structural analysis. *Structural Safety*, **1991**, 10, 79-93	4.9	40
558	Mitigation of heave response of semi-submersible platform (SSP) using tuned heave plate inerter (THPI). *Engineering Structures*, **2018**, 177, 357-373	4.7	40
557	Vented Methane-air Explosion Overpressure Calculation A simplified approach based on CFD. *Chemical Engineering Research and Design*, **2017**, 109, 489-508	5.5	39
556	Influence of drop weight geometry and interlayer on impact behavior of RC beams. *International Journal of Impact Engineering*, **2019**, 131, 222-237	4	39
555	Lost data recovery for structural health monitoring based on convolutional neural networks. *Structural Control and Health Monitoring*, **2019**, 26, e2433	4.5	39
554	Structural damage identification using improved Jaya algorithm based on sparse regularization and Bayesian inference. *Mechanical Systems and Signal Processing*, **2019**, 132, 211-231	7.8	39
553	Homogenization of Masonry Using Numerical Simulations. *Journal of Engineering Mechanics - ASCE*, **2001**, 127, 421-431	2.4	39
552	Structural damage identification with power spectral density transmissibility: numerical and experimental studies. *Smart Structures and Systems*, **2015**, 15, 15-40		39
551	Prediction of the impact force on reinforced concrete beams from a drop weight. *Advances in Structural Engineering*, **2016**, 19, 1710-1722	1.9	38
550	Numerical simulation of structural response and damage to simultaneous ground shock and airblast loads. *International Journal of Impact Engineering*, **2007**, 34, 556-572	4	38
549	Dynamic assessment of shear connectors in slab girder bridges. *Engineering Structures*, **2007**, 29, 1475-1486	4.7	38

548	Limit angular velocity of rotating disc with unified yield criterion. *International Journal of Mechanical Sciences*, **2001**, 43, 1137-1153	5.5	38
547	Devices for protecting bridge superstructure from pounding and unseating damages: an overview. *Structure and Infrastructure Engineering*, **2017**, 13, 313-330	2.9	37
546	Experimental evaluation of quasi-static and dynamic compressive properties of ambient-cured high-strength plain and fiber reinforced geopolymer composites. *Construction and Building Materials*, **2018**, 166, 482-499	6.7	37
545	Damage detection of shear connectors under moving loads with relative displacement measurements. *Mechanical Systems and Signal Processing*, **2015**, 60-61, 124-150	7.8	37
544	Responses of Masonry Infill Walls Retrofitted with CFRP, Steel Wire Mesh and Laminated Bars to Blast Loadings. *Advances in Structural Engineering*, **2014**, 17, 817-836	1.9	37
543	Numerical analysis of steel tubular member response to ship bow impacts. *International Journal of Impact Engineering*, **2014**, 64, 101-121	4	36
542	Vibration-based structural health monitoring of offshore pipelines: numerical and experimental study. *Structural Control and Health Monitoring*, **2013**, 20, 769-788	4.5	36
541	Condition Assessment of Shear Connectors in Slab-Girder Bridges via Vibration Measurements. *Journal of Bridge Engineering*, **2008**, 13, 43-54	2.7	36
540	Damage Identification of Shear Connectors with Wavelet Packet Energy: Laboratory Test Study. *Journal of Structural Engineering*, **2008**, 134, 832-841	3	36
539	Characterisation of underground blast-induced ground motions from large-scale field tests. *Shock Waves*, **2003**, 13, 237-252	1.6	36
538	Experimental study of dynamic buckling of plates under fluid-solid slamming. *International Journal of Impact Engineering*, **1999**, 22, 675-691	4	36
537	Bond slip modelling and its effect on numerical analysis of blast-induced responses of RC columns. *Structural Engineering and Mechanics*, **2009**, 32, 251-267		36
536	A review of recent research advances on structural health monitoring in Western Australia. *Structural Monitoring and Maintenance*, **2016**, 3, 33-49		36
535	Energy absorption characteristics of bio-inspired hierarchical multi-cell square tubes under axial crushing. *International Journal of Mechanical Sciences*, **2021**, 201, 106464	5.5	36
534	Effect of aggregate size on bond behaviour between basalt fibre reinforced polymer sheets and concrete. *Composites Part B: Engineering*, **2019**, 158, 459-474	10	36
533	Experimental and numerical study of unreinforced clay brick masonry walls subjected to vented gas explosions. *International Journal of Impact Engineering*, **2017**, 104, 107-126	4	35
532	Enhancing fiber/matrix bonding in polypropylene fiber reinforced cementitious composites by microbially induced calcite precipitation pre-treatment. *Cement and Concrete Composites*, **2018**, 88, 1-7	8.6	35
531	Substructure damage identification based on wavelet-domain response reconstruction. *Structural Health Monitoring*, **2014**, 13, 389-405	4.4	35

530	Influence of brittle shear damage on accuracy of the two-step method in prediction of structural response to blast loads. *International Journal of Impact Engineering*, **2013**, 54, 217-231	4	35
529	DAMAGE DETECTION OF SHEAR CONNECTORS IN BRIDGE STRUCTURES WITH TRANSMISSIBILITY IN FREQUENCY DOMAIN. *International Journal of Structural Stability and Dynamics*, **2014**, 14, 1350061	1.9	35
528	Numerical analysis of dynamic buckling of rectangular plates subjected to intermediate-velocity impact. *International Journal of Impact Engineering*, **2001**, 25, 147-167	4	35
527	Arch responses to correlated multiple excitations. *Earthquake Engineering and Structural Dynamics*, **1993**, 22, 389-404	4	35
526	Post-cracking behaviour of basalt and macro polypropylene hybrid fibre reinforced concrete with different compressive strengths. *Construction and Building Materials*, **2020**, 262, 120108	6.7	35
525	Using polynomial chaos expansion for uncertainty and sensitivity analysis of bridge structures. *Mechanical Systems and Signal Processing*, **2019**, 119, 293-311	7.8	35
524	New interlocking inter-module connection for modular steel buildings: Experimental and numerical studies. *Engineering Structures*, **2019**, 198, 109465	4.7	34
523	Theoretical modeling and numerical simulation of seismic motions at seafloor. *Soil Dynamics and Earthquake Engineering*, **2015**, 77, 220-225	3.5	34
522	Experimental investigations and numerical simulations of multi-arch double-layered panels under uniform impulsive loadings. *International Journal of Impact Engineering*, **2014**, 63, 140-157	4	34
521	Mesoscale modelling of dynamic tensile behaviour of fibre reinforced concrete with spiral fibres. *Cement and Concrete Research*, **2012**, 42, 1475-1493	10.3	34
520	Dynamic tensile behaviour of fibre reinforced concrete with spiral fibres. *Materials & Design*, **2012**, 42, 72-88		34
519	Assessment of structure damage to blasting induced ground motions. *Engineering Structures*, **2000**, 22, 1378-1389	4.7	34
518	Experimental and numerical study on steel wire mesh reinforced concrete slab under contact explosion. *Materials and Design*, **2017**, 116, 77-91	8.1	33
517	Dynamic response of precast concrete beam with wet connection subjected to impact loads. *Engineering Structures*, **2019**, 191, 247-263	4.7	33
516	Vibration signal denoising for structural health monitoring by residual convolutional neural networks. *Measurement: Journal of the International Measurement Confederation*, **2020**, 157, 107651	4.6	33
515	Shear behaviour of post-tensioned inter-module connection for modular steel buildings. *Journal of Constructional Steel Research*, **2019**, 162, 105707	3.8	33
514	Strain ratio effects on low-cycle fatigue behavior and deformation microstructure of 2124-T851 aluminum alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 605, 151-159	5.3	33
513	Safe Scaled Distance for Masonry Infilled RC Frame Structures Subjected to Airblast Loads. *Journal of Performance of Constructed Facilities*, **2007**, 21, 422-431	2	33

512	Non-probabilistic method to consider uncertainties in frequency response function for vibration-based damage detection using Artificial Neural Network. *Journal of Sound and Vibration*, **2020**, 467, 115069	3.9	33
511	A study of concrete slabs with steel wire mesh reinforcement under close-in explosive loads. *International Journal of Impact Engineering*, **2017**, 110, 242-254	4	32
510	Performance of structural insulated panels with rigid skins subjected to windborne debris impacts Experimental investigations. *Construction and Building Materials*, **2015**, 77, 241-252	6.7	32
509	Health monitoring of joint conditions in steel truss bridges with relative displacement sensors. *Measurement: Journal of the International Measurement Confederation*, **2016**, 88, 360-371	4.6	32
508	Effect of abutment excitation on bridge pounding. *Engineering Structures*, **2013**, 54, 57-68	4.7	32
507	Numerical Analysis of FRP-Composite-Strengthened RC Panels with Anchorages against Blast Loads. *Journal of Performance of Constructed Facilities*, **2011**, 25, 360-372	2	32
506	Using vibration phase space topology changes for structural damage detection. *Structural Health Monitoring*, **2012**, 11, 538-557	4.4	32
505	Damage assessment of masonry infilled RC frames subjected to blasting induced ground excitations. *Engineering Structures*, **2002**, 24, 799-809	4.7	32
504	Dynamic Compressive Test of Gas-Containing Coal Using a Modified Split Hopkinson Pressure Bar System. *Rock Mechanics and Rock Engineering*, **2020**, 53, 815-829	5.7	32
503	A study on the mean stress relaxation behavior of 2124-T851 aluminum alloy during low-cycle fatigue at different strain ratios. *Materials & Design*, **2015**, 67, 272-279		31
502	Detection of delamination between steel bars and concrete using embedded piezoelectric actuators/sensors. *Journal of Civil Structural Health Monitoring*, **2013**, 3, 105-115	2.9	31
501	Experimental study of concrete damage under high hydrostatic pressure. *Cement and Concrete Research*, **2017**, 100, 140-152	10.3	31
500	Numerical Analysis of Blast-Induced Stress Waves in a Rock Mass with Anisotropic Continuum Damage Models Part 2: Stochastic Approach. *Rock Mechanics and Rock Engineering*, **2002**, 35, 95-108	5.7	31
499	Dynamic compressive properties of lightweight rubberized concrete. *Construction and Building Materials*, **2020**, 238, 117705	6.7	31
498	Inerter-based structural vibration control: A state-of-the-art review. *Engineering Structures*, **2021**, 243, 112655	4.7	31
497	Experimental and numerical study on CFRP strip strengthened clay brick masonry walls subjected to vented gas explosions. *International Journal of Impact Engineering*, **2019**, 129, 66-79	4	30
496	Experimental and numerical study on the behaviour of CFDST columns subjected to close-in blast loading. *Engineering Structures*, **2019**, 185, 203-220	4.7	30
495	Dynamic response of rubberized concrete columns with and without FRP confinement subjected to lateral impact. *Construction and Building Materials*, **2018**, 186, 207-218	6.7	30

494	Experimental and analytical investigation on flexural behaviour of ambient cured geopolymer concrete beams reinforced with steel fibers. *Engineering Structures*, **2019**, 200, 109707	4.7	30
493	A parametric study on the evaluation of ductility demand distribution in multi-degree-of-freedom systems considering soil□tructure interaction effects. *Engineering Structures*, **2012**, 43, 88-104	4.7	30
492	Derivation of 3D masonry properties using numerical homogenization technique. *International Journal for Numerical Methods in Engineering*, **2006**, 66, 1717-1737	2.4	30
491	Mechanical properties and behaviour of high-strength plain and hybrid-fiber reinforced geopolymer composites under dynamic splitting tension. *Cement and Concrete Composites*, **2019**, 104, 103343	8.6	29
490	Seismic performances of precast segmental column under bidirectional earthquake motions: Shake table test and numerical evaluation. *Engineering Structures*, **2019**, 187, 314-328	4.7	29
489	Steel fibre reinforced alkali-activated geopolymer concrete slabs subjected to natural gas explosion in buried utility tunnel. *Construction and Building Materials*, **2020**, 246, 118447	6.7	29
488	Reliability analysis and design optimization of nonlinear structures. *Reliability Engineering and System Safety*, **2020**, 198, 106860	6.3	29
487	Experimental investigation of monolithic tempered glass fragment characteristics subjected to blast loads. *Engineering Structures*, **2014**, 75, 259-275	4.7	29
486	Investigation of Ultra-High Performance Concrete under Static and Blast Loads. *International Journal of Protective Structures*, **2015**, 6, 217-235	1.5	29
485	Modelling of Guided Wave Propagation with Spectral Element: Application in Structural Engineering. *Applied Mechanics and Materials*, **2014**, 553, 687-692	0.3	29
484	Numerical study of characteristics of underground blast induced surface ground motion and their effect on above-ground structures. Part II. Effects on structural responses. *Soil Dynamics and Earthquake Engineering*, **2005**, 25, 39-53	3.5	29
483	Analytical Modeling of Traffic-Induced Ground Vibrations. *Journal of Engineering Mechanics - ASCE*, **1998**, 124, 921-928	2.4	29
482	Bond behavior between basalt fibres reinforced polymer sheets and steel fibres reinforced concrete. *Engineering Structures*, **2018**, 176, 812-824	4.7	29
481	Modeling and Simulation of Spatially Correlated Ground Motions at Multiple Onshore and Offshore Sites. *Journal of Earthquake Engineering*, **2017**, 21, 359-383	1.8	28
480	Quasi-static and dynamic tensile properties of fiberglass/epoxy laminate sheet. *Construction and Building Materials*, **2017**, 143, 247-258	6.7	28
479	Operational modal identification of structures based on improved empirical wavelet transform. *Structural Control and Health Monitoring*, **2019**, 26, e2323	4.5	28
478	Experimental investigations of dynamic compressive properties of roller compacted concrete (RCC). *Construction and Building Materials*, **2018**, 168, 671-682	6.7	28
477	Numerical Investigation of Effects of Water Saturation on Blast Wave Propagation in Soil Mass. *Journal of Engineering Mechanics - ASCE*, **2004**, 130, 551-561	2.4	28

476	Parametric study of seismic performance of super-elastic shape memory alloy-reinforced bridge piers. *Structure and Infrastructure Engineering*, **2016**, 12, 1076-1089	2.9	27
475	Study of autoclaved aerated concrete masonry walls under vented gas explosions. *Engineering Structures*, **2017**, 141, 444-460	4.7	27
474	Bond behaviour between hybrid fiber reinforced polymer sheets and concrete. *Construction and Building Materials*, **2019**, 210, 93-110	6.7	27
473	A case study of interior low-frequency noise from box-shaped bridge girders induced by running trains: Its mechanism, prediction and countermeasures. *Journal of Sound and Vibration*, **2016**, 367, 129-144	3.9	27
472	Mechanical properties of ambient cured high-strength plain and hybrid fiber reinforced geopolymer composites from triaxial compressive tests. *Construction and Building Materials*, **2018**, 185, 338-353	6.7	27
471	Numerical simulation of structural responses on a sand layer to blast induced ground excitations. *Computers and Structures*, **2004**, 82, 799-814	4.5	27
470	Strain Transfer Analysis of Embedded Fiber Bragg Grating Strain Sensor. *Journal of Testing and Evaluation*, **2016**, 44, 20140388	1	27
469	Damage Identification and Optimal Sensor Placement for Structures under Unknown Traffic-Induced Vibrations. *Journal of Aerospace Engineering*, **2017**, 30,	1.4	26
468	Time-varying system identification by enhanced Empirical Wavelet Transform based on Synchroextracting Transform. *Engineering Structures*, **2019**, 196, 109313	4.7	26
467	Effect of inter-module connection stiffness on structural response of a modular steel building subjected to wind and earthquake load. *Engineering Structures*, **2020**, 213, 110628	4.7	26
466	Experimental study of precast segmental columns with unbonded tendons under cyclic loading. *Advances in Structural Engineering*, **2018**, 21, 319-334	1.9	26
465	Experimental investigation of the behaviour of spiral steel fibre reinforced concrete beams subjected to drop-weight impact loads. *Materials and Structures/Materiaux Et Constructions*, **2016**, 49, 353-370	3.4	26
464	Reliability Analysis of RC Columns and Frame with FRP Strengthening Subjected to Explosive Loads. *Journal of Performance of Constructed Facilities*, **2016**, 30, 04015017	2	26
463	Experimental study on the behavior of precast segmental column with domed shear key and unbonded Post-Tensioning tendon under impact loading. *Engineering Structures*, **2018**, 173, 589-605	4.7	26
462	Durability characteristics of lightweight rubberized concrete. *Construction and Building Materials*, **2019**, 224, 584-599	6.7	26
461	STATE-OF-THE-ART REVIEW ON SEISMIC INDUCED POUNDING RESPONSE OF BRIDGE STRUCTURES. *Journal of Earthquake and Tsunami*, **2013**, 07, 1350019	1.1	26
460	Structure Damage Detection Using Neural Network with Multi-Stage Substructuring. *Advances in Structural Engineering*, **2010**, 13, 95-110	1.9	26
459	Seismic performance of RC frames designed for three different ductility levels. *Engineering Structures*, **2001**, 23, 537-547	4.7	26

458	Identification of Minor Structural Damage Based on Electromechanical Impedance Sensitivity and Sparse Regularization. *Journal of Aerospace Engineering*, **2018**, 31, 04018061	1.4	25
457	3D FEM Analysis of Pounding Response of Bridge Structures at a Canyon Site to Spatially Varying Ground Motions. *Advances in Structural Engineering*, **2013**, 16, 619-640	1.9	25
456	Response of multiply supported rigid plate to spatially correlated seismic excitations. *Earthquake Engineering and Structural Dynamics*, **1991**, 20, 821-838	4	25
455	Experimental and numerical study of basalt fiber reinforced polymer strip strengthened autoclaved aerated concrete masonry walls under vented gas explosions. *Engineering Structures*, **2017**, 152, 901-919	4.7	24
454	Structural damage identification with uncertain modelling error and measurement noise by clustering based tree seeds algorithm. *Engineering Structures*, **2019**, 185, 301-314	4.7	24
453	Axial Impact Resistance of FRP-Confined Concrete. *Journal of Composites for Construction*, **2017**, 21, 04016088	3.5	24
452	Strength reduction factor for MDOF soil–structure systems. *Structural Design of Tall and Special Buildings*, **2014**, 23, 161-180	1.8	24
451	Laboratory test and numerical study of structural insulated panel strengthened with glass fibre laminate against windborne debris impact. *Construction and Building Materials*, **2016**, 114, 434-446	6.7	24
450	Effectiveness of using pipe-in-pipe (PIP) concept to reduce vortex-induced vibrations (VIV): Three-dimensional two-way FSI analysis. *Ocean Engineering*, **2018**, 148, 263-276	3.9	24
449	Finite element modelling of mesoscale concrete material in dynamic splitting test. *Advances in Structural Engineering*, **2016**, 19, 1027-1039	1.9	23
448	Seismic Fragility Analysis of Reinforced Concrete Bridges with Chloride Induced Corrosion Subjected to Spatially Varying Ground Motions. *International Journal of Structural Stability and Dynamics*, **2016**, 16, 1550010	1.9	23
447	Failure analysis of corrugated panel subjected to windborne debris impacts. *Engineering Failure Analysis*, **2014**, 44, 229-249	3.2	23
446	Analysis of fragment size and ejection velocity at high strain rate. *International Journal of Mechanical Sciences*, **2004**, 46, 27-34	5.5	23
445	Simulation of structural response under high-frequency ground excitation. *Earthquake Engineering and Structural Dynamics*, **2001**, 30, 307-325	4	23
444	Seismic Response of Asymmetric Structures to Multiple Ground Motions. *Journal of Structural Engineering*, **1995**, 121, 1557-1564	3	23
443	Factors influencing impact force profile and measurement accuracy in drop weight impact tests. *International Journal of Impact Engineering*, **2020**, 145, 103688	4	23
442	Axial impact behavior and energy absorption of rubberized concrete with/without fiber-reinforced polymer confinement. *International Journal of Protective Structures*, **2019**, 10, 154-173	1.5	23
441	Study of concrete damage mechanism under hydrostatic pressure by numerical simulations. *Construction and Building Materials*, **2018**, 160, 440-449	6.7	23

440	Influence of earthquake ground motion modelling on the dynamic responses of offshore wind turbines. *Soil Dynamics and Earthquake Engineering*, **2019**, 121, 151-167	3.5	22
439	NUMERICAL STUDY OF BLAST-RESISTANT SANDWICH PANELS WITH ROTATIONAL FRICTION DAMPERS. *International Journal of Structural Stability and Dynamics*, **2013**, 13, 1350014	1.9	22
438	Mesh size effect in numerical simulation of blast wave propagation and interaction with structures. *Transactions of Tianjin University*, **2008**, 14, 396-402	2.9	22
437	Revisiting some phenomena in polyelectrolyte solutions. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 1080-1086	2.6	22
436	Piezoelectric impedance based damage detection in truss bridges based on time frequency ARMA model. *Smart Structures and Systems*, **2016**, 18, 501-523		22
435	Development of a novel deformation-amplified shape memory alloy-friction damper for mitigating seismic responses of RC frame buildings. *Engineering Structures*, **2020**, 216, 110751	4.7	22
434	Blast resistance of concrete slab reinforced with high performance fibre material. *Journal of Structural Integrity and Maintenance*, **2016**, 1, 51-59	1.5	21
433	Application of wavelet packet transform in subsea pipeline bedding condition assessment. *Engineering Structures*, **2012**, 39, 50-65	4.7	21
432	Damage evaluation of the steel tubular column subjected to explosion and post-explosion fire condition. *Engineering Structures*, **2013**, 55, 44-55	4.7	21
431	A Two-Step Numerical Method for Efficient Analysis of Structural Response to Blast Load. *International Journal of Protective Structures*, **2011**, 2, 103-126	1.5	21
430	Rectangular Stress-block Parameters for Fly-ash and Slag Based Geopolymer Concrete. *Structures*, **2019**, 19, 143-155	3.4	21
429	Analytical and numerical studies on impact force profile of RC beam under drop weight impact. *International Journal of Impact Engineering*, **2021**, 147, 103743	4	21
428	Dynamic compressive material properties of clay bricks at different strain rates. *Construction and Building Materials*, **2018**, 192, 754-767	6.7	21
427	Proposed design procedure for reinforced concrete bridge columns subjected to vehicle collisions. *Structures*, **2019**, 22, 213-229	3.4	20
426	Investigation of shear performance of UHPC by direct shear tests. *Engineering Structures*, **2019**, 183, 780-790	4.7	20
425	Numerical and analytical prediction of pressure and impulse from vented gas explosion in large cylindrical tanks. *Chemical Engineering Research and Design*, **2019**, 127, 226-244	5.5	20
424	Seismic fragility assessment of the Daikai subway station in layered soil. *Soil Dynamics and Earthquake Engineering*, **2020**, 132, 106044	3.5	20
423	Flexural behaviour of precast segmental concrete beams internally prestressed with unbonded CFRP tendons under four-point loading. *Engineering Structures*, **2018**, 168, 371-383	4.7	20

422	Optimum lateral load pattern for seismic design of elastic shear-buildings incorporating soil–structure interaction effects. *Earthquake Engineering and Structural Dynamics*, **2013**, 42, 913-933	4	20
421	Stiffness Assessment through Modal Analysis of an RC Slab Bridge before and after Strengthening. *Journal of Bridge Engineering*, **2006**, 11, 590-601	2.7	20
420	Effect of hybrid fibers on shear behaviour of geopolymer concrete beams reinforced by basalt fiber reinforced polymer (BFRP) bars without stirrups. *Composite Structures*, **2020**, 243, 112236	5.3	20
419	Numerical study of the influences of pressure confinement on high-speed impact tests of dynamic material properties of concrete. *Construction and Building Materials*, **2018**, 171, 839-849	6.7	20
418	Blast mitigation performance of cladding using square dome-shape kirigami folded structure as core. *International Journal of Mechanical Sciences*, **2018**, 145, 83-95	5.5	20
417	Pull-out behaviour of spiral-shaped steel fibres from normal-strength concrete matrix. *Construction and Building Materials*, **2017**, 139, 34-44	6.7	19
416	Strain rate effect on interfacial bond behaviour between BFRP sheets and steel fibre reinforced concrete. *Composites Part B: Engineering*, **2019**, 174, 107032	10	19
415	Target-free vision-based technique for vibration measurements of structures subjected to out-of-plane movements. *Engineering Structures*, **2019**, 190, 210-222	4.7	19
414	Using inerter-based control device to mitigate heave and pitch motions of semi-submersible platform in the shallow sea. *Engineering Structures*, **2020**, 207, 110248	4.7	19
413	Far-field pressure prediction of a vented gas explosion from storage tanks by using new CFD simulation guidance. *Chemical Engineering Research and Design*, **2018**, 119, 360-378	5.5	19
412	Structural damage detection based on the reconstructed phase space for reinforced concrete slab: Experimental study. *Journal of Sound and Vibration*, **2013**, 332, 1061-1078	3.9	19
411	Numerical studies on the seismic responses of bridge structures with precast segmental columns. *Engineering Structures*, **2017**, 151, 568-583	4.7	19
410	Internal and external pressure prediction of vented gas explosion in large rooms by using analytical and CFD methods. *Journal of Loss Prevention in the Process Industries*, **2017**, 49, 367-381	3.5	19
409	A Simplified Approach for Predicting Bridge Pier Responses Subjected to Barge Impact Loading. *Advances in Structural Engineering*, **2014**, 17, 11-23	1.9	19
408	Effect of structural characteristics distribution on strength demand and ductility reduction factor of MDOF systems considering soil-structure interaction. *Earthquake Engineering and Engineering Vibration*, **2012**, 11, 205-220	2	19
407	DYNAMIC ASSESSMENT OF UNDERWATER PIPELINE SYSTEMS USING STATISTICAL MODEL UPDATING. *International Journal of Structural Stability and Dynamics*, **2008**, 08, 271-297	1.9	19
406	Fuzzy-random probabilistic analysis of rock mass responses to explosive loads. *Computers and Geotechnics*, **1999**, 25, 205-225	4.4	19
405	Numerical analysis of the stability of abandoned cavities in bench blasting. *International Journal of Rock Mechanics and Minings Sciences*, **2017**, 92, 30-39	6	18

404	Cyclic test and numerical study of precast segmental concrete columns with BFRP and TEED. *Bulletin of Earthquake Engineering*, **2019**, 17, 3475-3494	3.7	18
403	Hysteretic performance of RC double-column bridge piers with self-centering buckling-restrained braces. *Bulletin of Earthquake Engineering*, **2019**, 17, 3255-3281	3.7	18
402	Deep residual network framework for structural health monitoring. *Structural Health Monitoring*, **2020**, 147592172091837	4.4	18
401	Mechanical properties and behaviour of concrete reinforced with spiral-shaped steel fibres under dynamic splitting tension. *Magazine of Concrete Research*, **2016**, 68, 1110-1121	2	18
400	Performance-Based Seismic Assessment of Superelastic Shape Memory Alloy-Reinforced Bridge Piers Considering Residual Deformations. *Journal of Earthquake Engineering*, **2017**, 21, 1050-1069	1.8	18
399	Multi-Sided Pounding Response of Bridge Structures with Non-Linear Bearings to Spatially Varying Ground Excitation. *Advances in Structural Engineering*, **2006**, 9, 55-66	1.9	18
398	Estimation of relative displacement of two adjacent asymmetric structures. *Earthquake Engineering and Structural Dynamics*, **2001**, 30, 81-96	4	18
397	Analysis of imperfect column buckling under intermediate velocity impact. *International Journal of Solids and Structures*, **2000**, 37, 5297-5313	3.1	18
396	Unified Plastic Limit Analyses of Circular Plates Under Arbitrary Load. *Journal of Applied Mechanics, Transactions ASME*, **1999**, 66, 568-570	2.7	18
395	Multiple excitation effects on response of symmetric buildings. *Engineering Structures*, **1996**, 18, 732-740	4.7	18
394	Performance of precast segmental concrete beams posttensioned with carbon fiber-reinforced polymer (CFRP) tendons. *Composite Structures*, **2019**, 208, 56-69	5.3	18
393	Domino-type progressive collapse analysis of a multi-span simply-supported bridge: A case study. *Engineering Structures*, **2015**, 90, 172-182	4.7	17
392	Modelling of shear keys in bridge structures under seismic loads. *Soil Dynamics and Earthquake Engineering*, **2015**, 74, 56-68	3.5	17
391	Crushing behaviours of folded kirigami structure with square dome shape. *International Journal of Impact Engineering*, **2018**, 115, 94-105	4	17
390	Experimental study on relative displacement responses of bridge frames subjected to spatially varying ground motion and its mitigation using superelastic SMA restrainers. *Soil Dynamics and Earthquake Engineering*, **2018**, 109, 76-88	3.5	17
389	Basalt scale-reinforced aluminium foam under static and dynamic loads. *Composite Structures*, **2018**, 203, 599-613	5.3	17
388	Dynamics of steel offshore platforms under ship impact. *Applied Ocean Research*, **2014**, 47, 352-372	3.4	17
387	Dynamic Assessment of Shear Connectors in Composite Bridges with Ambient Vibration Measurements. *Advances in Structural Engineering*, **2014**, 17, 617-637	1.9	17

386	Passive vibration control of cylindrical offshore components using pipe-in-pipe (PIP) concept: An analytical study. *Ocean Engineering*, **2017**, 142, 39-50	3.9	17
385	Multi-stage identification scheme for detecting damage in structures under ambient excitations. *Smart Materials and Structures*, **2013**, 22, 045006	3.4	17
384	Experimental investigation on lightweight rubberized concrete beams strengthened with BFRP sheets subjected to impact loads. *Engineering Structures*, **2020**, 205, 110095	4.7	17
383	The response of glass window systems to blast loadings: An overview. *International Journal of Protective Structures*, **2016**, 7, 123-154	1.5	17
382	Mitigation of tower and out-of-plane blade vibrations of offshore monopile wind turbines by using multiple tuned mass dampers. *Structure and Infrastructure Engineering*, **2019**, 15, 269-284	2.9	17
381	In-plane crushing behaviors of hexagonal honeycombs with different Poisson's ratio induced by topological diversity. *Thin-Walled Structures*, **2021**, 159, 107223	4.7	17
380	Effects of Curing Conditions and Sand-to-Binder Ratios on Compressive Strength Development of Fly Ash Geopolymer. *Journal of Materials in Civil Engineering*, **2018**, 30, 04017267	3	17
379	Crashworthiness analysis of bio-inspired fractal tree-like multi-cell circular tubes under axial crushing. *Thin-Walled Structures*, **2021**, 169, 108315	4.7	17
378	Stochastic seismic response analysis of buried onshore and offshore pipelines. *Soil Dynamics and Earthquake Engineering*, **2017**, 94, 60-65	3.5	16
377	Field Testing of Fence Type Blast Wall for Blast Load Mitigation. *International Journal of Structural Stability and Dynamics*, **2017**, 17, 1750099	1.9	16
376	The mechanical properties of ionoplast interlayer material at high strain rates. *Materials and Design*, **2015**, 83, 387-399	8.1	16
375	The influence of design parameters of engineered aggregate in metaconcrete on bandgap region. *Journal of the Mechanics and Physics of Solids*, **2020**, 139, 103929	5	16
374	Dynamic response of steel-reinforced concrete-filled circular steel tubular members under lateral impact loads. *Thin-Walled Structures*, **2020**, 151, 106736	4.7	16
373	Detection of minor damage in structures with guided wave signals and nonlinear oscillator. *Measurement: Journal of the International Measurement Confederation*, **2018**, 122, 532-544	4.6	16
372	Source identification of microseismic events in underground mines with interferometric imaging and cross wavelet transform. *Tunnelling and Underground Space Technology*, **2018**, 71, 318-328	5.7	16
371	Numerical simulation on the effectiveness of using viscoelastic materials to mitigate seismic induced vibrations of above-ground pipelines. *Engineering Structures*, **2016**, 123, 1-14	4.7	16
370	Experimental investigations of fabric material against projectile impacts. *Construction and Building Materials*, **2016**, 104, 142-153	6.7	16
369	Experimental and computational Fluid Dynamics study of separation gap effect on gas explosion mitigation for methane storage tanks. *Journal of Loss Prevention in the Process Industries*, **2018**, 55, 359-380	3.5	16

368	Dynamic crushing and energy absorption of foam filled multi-layer folded structures: Experimental and numerical study. *International Journal of Impact Engineering*, **2019**, 133, 103341	4	16
367	Spectral Element Model Updating for Damage Identification Using Clonal Selection Algorithm. *Advances in Structural Engineering*, **2011**, 14, 837-856	1.9	16
366	DAMAGE DETECTION OF RC SLABS USING NONLINEAR VIBRATION FEATURES. *International Journal of Structural Stability and Dynamics*, **2009**, 09, 687-709	1.9	16
365	Numerical derivation of averaged material properties of hollow concrete block masonry. *Engineering Structures*, **2008**, 30, 870-883	4.7	16
364	Experimental investigation of structural response to generalized ground shock excitations. *Experimental Mechanics*, **2002**, 42, 261-271	2.6	16
363	Pounding Response of Adjacent Buildings Subjected to Spatial Earthquake Ground Excitations. *Advances in Structural Engineering*, **2000**, 3, 145-162	1.9	16
362	Ground-Motion Spatial Variation Effects on Circular Arch Responses. *Journal of Engineering Mechanics - ASCE*, **1994**, 120, 2326-2341	2.4	16
361	Dynamic compressive properties of lightweight rubberized geopolymer concrete. *Construction and Building Materials*, **2020**, 265, 120753	6.7	16
360	Bayesian based nonlinear model updating using instantaneous characteristics of structural dynamic responses. *Engineering Structures*, **2019**, 183, 459-474	4.7	16
359	A simplified statistic-based procedure for gas dispersion prediction of fixed offshore platform. *Chemical Engineering Research and Design*, **2018**, 114, 48-63	5.5	16
358	Nonlinear seismic response of a base isolated single pylon cable-stayed bridge. *Engineering Structures*, **2018**, 175, 806-821	4.7	16
357	Impact response and energy absorption of single phase syntactic foam. *Composites Part B: Engineering*, **2018**, 150, 226-233	10	16
356	Optimal blast wall layout design to mitigate gas dispersion and explosion on a cylindrical FLNG platform. *Journal of Loss Prevention in the Process Industries*, **2017**, 49, 481-492	3.5	15
355	Numerical study of fence type blast walls for blast load mitigation. *International Journal of Impact Engineering*, **2019**, 131, 238-255	4	15
354	Bridge condition monitoring using fixed moving principal component analysis. *Structural Control and Health Monitoring*, **2020**, 27, e2535	4.5	15
353	Numerical study of sandwich panel with a new bi-directional Load-Self-Cancelling (LSC) core under blast loading. *Thin-Walled Structures*, **2018**, 127, 90-101	4.7	15
352	Experimental study on subsea pipeline bedding condition assessment using wavelet packet transform. *Engineering Structures*, **2013**, 48, 81-97	4.7	15
351	A Frobenius solution to the scaled boundary finite element equations in frequency domain for bounded media. *International Journal for Numerical Methods in Engineering*, **2007**, 70, 1387-1408	2.4	15

350	Generation of probabilistic displacement response spectra for displacement-based design. *Soil Dynamics and Earthquake Engineering*, **2004**, 24, 149-166	3.5	15
349	ESTIMATION OF REQUIRED SEPARATIONS BETWEEN ADJACENT STRUCTURES UNDER SPATIAL GROUND MOTIONS. *Journal of Earthquake Engineering*, **1998**, 2, 197-215	1.8	15
348	Seismic design of bridge structures with allowance for large relative girder movements to avoid pounding. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2009**, 42, 75-85	0.5	15
347	Bridge condition monitoring under moving loads using two sensor measurements. *Structural Health Monitoring*, **2020**, 19, 917-937	4.4	15
346	Influence of Asphalt Pavement Conditions on Fatigue Damage of Orthotropic Steel Decks: Parametric Analysis. *Journal of Bridge Engineering*, **2018**, 23, 04018093	2.7	15
345	Experimental and three-dimensional finite element method studies on pounding responses of bridge structures subjected to spatially varying ground motions. *Advances in Structural Engineering*, **2017**, 20, 105-124	1.9	14
344	Experimental and numerical study of the slip factor for G350-steel bolted connections. *Journal of Constructional Steel Research*, **2019**, 158, 576-590	3.8	14
343	Impact Response and Capacity of Precast Concrete Segmental versus Monolithic Bridge Columns. *Journal of Bridge Engineering*, **2019**, 24, 04019050	2.7	14
342	Nonlinear hysteretic parameter identification using an improved tree-seed algorithm. *Swarm and Evolutionary Computation*, **2019**, 46, 69-83	9.8	14
341	Energy absorption of kirigami modified corrugated structure. *Thin-Walled Structures*, **2020**, 154, 106829	4.7	14
340	Performance of Bridges Isolated with Sliding-Lead Rubber Bearings Subjected to Near-Fault Earthquakes. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2050023	1.9	14
339	Numerical study of medium to large scale BLEVE for blast wave prediction. *Journal of Loss Prevention in the Process Industries*, **2020**, 65, 104107	3.5	14
338	Study on the long-hole raising technique using one blast based on vertical crater retreat multiple deck shots. *International Journal of Rock Mechanics and Minings Sciences*, **2018**, 109, 52-67	6	14
337	The effect of concrete shear key on the performance of segmental columns subjected to impact loading. *Advances in Structural Engineering*, **2017**, 20, 352-373	1.9	14
336	Seismic Response Analysis of Multiple-Frame Bridges with Unseating Restrainers considering Ground Motion Spatial Variation and SSI. *Advances in Structural Engineering*, **2015**, 18, 873-891	1.9	14
335	Spectral Element Modelling of Wave Propagation with Boundary and Structural Discontinuity Reflections. *Advances in Structural Engineering*, **2012**, 15, 855-870	1.9	14
334	Sensor Placement for Structural Damage Detection considering Measurement Uncertainties. *Advances in Structural Engineering*, **2013**, 16, 899-907	1.9	14
333	Seismic Response of a Steel Trussed Arch Structure to Spatially Varying Earthquake Ground Motions Including Site Effect. *Advances in Structural Engineering*, **2010**, 13, 1089-1103	1.9	14

332	Impact response of fibre reinforced geopolymer concrete beams with BFRP bars and stirrups. *Engineering Structures*, **2021**, 231, 111785	4.7	14
331	Data driven structural dynamic response reconstruction using segment based generative adversarial networks. *Engineering Structures*, **2021**, 234, 111970	4.7	14
330	Improved impact resistant capacity of segmental column with fibre reinforced polymer wrap. *International Journal of Impact Engineering*, **2019**, 125, 117-133	4	14
329	Impedance resonant frequency sensitivity based structural damage identification with sparse regularization: experimental studies. *Smart Materials and Structures*, **2019**, 28, 015003	3.4	14
328	Study on the raising technique using one blast based on the combination of long-hole presplitting and vertical crater retreat multiple-deck shots. *International Journal of Rock Mechanics and Minings Sciences*, **2019**, 113, 41-58	6	14
327	Origami metamaterial with two-stage programmable compressive strength under quasi-static loading. *International Journal of Mechanical Sciences*, **2021**, 189, 105987	5.5	14
326	Effect of aggregate size on the dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. *Construction and Building Materials*, **2019**, 227, 116584	6.7	13
325	Performance of composite structural insulated panel with metal skin subjected to blast loading. *Materials and Design*, **2015**, 84, 194-203	8.1	13
324	Energy dissipation in high-energy ship-offshore jacket platform collisions. *Marine Structures*, **2015**, 40, 1-37	3.8	13
323	Stress Wave Propagation and Structural Response of Precast Concrete Segmental Columns under Simulated Blast Loads. *International Journal of Impact Engineering*, **2020**, 143, 103595	4	13
322	Post-blast performance and residual capacity of CFDST columns subjected to contact explosions. *Journal of Constructional Steel Research*, **2020**, 167, 105960	3.8	13
321	Seismic performance of precast concrete-filled circular tube segmental column under biaxial lateral cyclic loadings. *Bulletin of Earthquake Engineering*, **2019**, 17, 271-296	3.7	13
320	Development of a New Fence Type Blast Wall for Blast Protection: Numerical Analysis. *International Journal of Structural Stability and Dynamics*, **2017**, 17, 1750066	1.9	13
319	Residual Loading Capacity of Ultra-High Performance Concrete Columns After. *International Journal of Protective Structures*, **2015**, 6, 649-669	1.5	13
318	Substructuring Technique for Damage Detection Using Statistical Multi-Stage Artificial Neural Network. *Advances in Structural Engineering*, **2010**, 13, 619-639	1.9	13
317	Numerical prediction of rock mass damage due to accidental explosions in an underground ammunition storage chamber. *Shock Waves*, **2006**, 15, 43-54	1.6	13
316	Scaled-Distance Relationships For Chamber Blast Accidents in Underground Storage of Explosives. *International Journal for Blasting and Fragmentation*, **2001**, 5, 57-90		13
315	Experimental investigation of dynamic post-buckling characteristics of rectangular plates under fluid-solid slamming. *Engineering Structures*, **2000**, 22, 947-960	4.7	13

314	CHARACTERISTICS OF TORSIONAL GROUND MOTIONS. *Earthquake Engineering and Structural Dynamics*, **1996**, 25, 599-610	4	13
313	Experimental and numerical study on concrete beams reinforced with Basalt FRP bars under static and impact loads. *Composite Structures*, **2021**, 263, 113648	5.3	13
312	A novel rotational inertia damper for amplifying fluid resistance: Experiment and mechanical model. *Mechanical Systems and Signal Processing*, **2021**, 149, 107313	7.8	13
311	A novel rotational inertia damper for heave motion suppression of semisubmersible platform in the shallow sea. *Structural Control and Health Monitoring*, **2019**, 26, e2368	4.5	12
310	Heave motion mitigation of semi-submersible platform using inerter-based vibration isolation system (IVIS). *Engineering Structures*, **2020**, 219, 110833	4.7	12
309	Interfacial debonding detection in externally bonded bfrp reinforced concrete using stress wave-based sensing approach. *Smart Materials and Structures*, **2020**, 29, 035039	3.4	12
308	Predicting the response of locally resonant concrete structure under blast load. *Construction and Building Materials*, **2020**, 252, 118920	6.7	12
307	Building Pounding Damages Observed during the 2015 Gorkha Earthquake. *Journal of Performance of Constructed Facilities*, **2018**, 32, 04018006	2	12
306	Improved decentralized structural identification with output-only measurements. *Measurement: Journal of the International Measurement Confederation*, **2018**, 122, 597-610	4.6	12
305	Experimental and numerical study of basalt fibre cloth strengthened structural insulated panel under windborne debris impact. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 1302-1317	2.9	12
304	Improved automated operational modal identification of structures based on clustering. *Structural Control and Health Monitoring*, **2019**, 26, e2450	4.5	12
303	Analysis of Coupled Lateral-Torsional-Pounding Responses of One-Storey Asymmetric Adjacent Structures Subjected to Bi-Directional Ground Motions Part I: Uniform Ground Motion Input. *Advances in Structural Engineering*, **2005**, 8, 463-479	1.9	12
302	. *IEEE Transactions on Computers*, **1993**, 42, 1510-1516	2.5	12
301	Damage assessment of reinforced concrete beams including the load environment. *Structural Engineering and Mechanics*, **2009**, 33, 765-779		12
300	Effects of steel fibres and prestress levels on behaviour of newly proposed exterior dry joints using SFRC and CFRP bolts. *Engineering Structures*, **2020**, 205, 110083	4.7	12
299	Ductile and dry exterior joints using CFRP bolts for moment-resisting frames. *Structures*, **2020**, 28, 668-684	3.4	12
298	Substructural interface force identification with limited vibration measurements. *Journal of Civil Structural Health Monitoring*, **2016**, 6, 395-410	2.9	12
297	Numerical study of blast mitigation performance of folded structure with foam infill. *Structures*, **2019**, 20, 581-593	3.4	11

296	Effects of steel confinement and shear keys on the impact responses of precast concrete segmental columns. *Journal of Constructional Steel Research*, **2019**, 158, 331-349	3.8	11
295	Effects of a Single Open Joint on Energy Transmission Coefficients of Stress Waves with Different Waveforms. *Rock Mechanics and Rock Engineering*, **2015**, 48, 2157-2166	5.7	11
294	Interfacial bond behaviour between hybrid carbon/basalt fibre composites and concrete under dynamic loading. *International Journal of Adhesion and Adhesives*, **2020**, 99, 102569	3.4	11
293	Numerical study on the flexural performance of precast segmental concrete beams with unbonded internal steel tendons. *Construction and Building Materials*, **2020**, 248, 118362	6.7	11
292	Stochastic dynamic analysis of marine risers considering Gaussian system uncertainties. *Journal of Sound and Vibration*, **2018**, 416, 224-243	3.9	11
291	Simulation of multi-support depth-varying earthquake ground motions within heterogeneous onshore and offshore sites. *Earthquake Engineering and Engineering Vibration*, **2018**, 17, 475-490	2	11
290	Numerical Simulations of Stiffened Multi-Arch Double-Layered Panels Subjected to Blast Loading. *International Journal of Protective Structures*, **2013**, 4, 163-187	1.5	11
289	Seismic Response of a Concrete Filled Steel Tubular Arch Bridge to Spatially Varying Ground Motions Including Local Site Effect. *Advances in Structural Engineering*, **2013**, 16, 1799-1817	1.9	11
288	Response of two-way eccentric building to nonuniform base excitations. *Engineering Structures*, **1998**, 20, 677-684	4.7	11
287	Distributed Structural Damage Generated by High-Frequency Ground Motion. *Journal of Structural Engineering*, **2002**, 128, 390-399	3	11
286	Dynamic Buckling of Simply Supported Columns under Axial Slamming. *Journal of Engineering Mechanics - ASCE*, **1999**, 125, 513-520	2.4	11
285	Damage assessment of shear connectors with vibration measurements and power spectral density transmissibility. *Structural Engineering and Mechanics*, **2015**, 54, 257-289		11
284	Experimental and numerical studies of the seismic behavior of a steel-concrete composite rigid-frame bridge subjected to the surface rupture at a thrust fault. *Engineering Structures*, **2020**, 205, 110105	4.7	11
283	Non-probabilistic method to consider uncertainties in structural damage identification based on Hybrid Jaya and Tree Seeds Algorithm. *Engineering Structures*, **2020**, 220, 110925	4.7	11
282	Gas explosion analysis of safety gap effect on the innovating FLNG vessel with a cylindrical platform. *Journal of Loss Prevention in the Process Industries*, **2016**, 44, 263-274	3.5	11
281	The correlation of theoretical contact models for normal elastic-plastic impacts. *International Journal of Solids and Structures*, **2020**, 182-183, 15-33	3.1	11
280	New interlocking inter-module connection for modular steel buildings: Simplified structural behaviours. *Engineering Structures*, **2021**, 227, 111409	4.7	11
279	Theoretical Investigation of Bridge Seismic Responses with Pounding under Near-Fault Vertical Ground Motions. *Advances in Structural Engineering*, **2015**, 18, 453-468	1.9	10

278	Analysis of seismic pounding between adjacent buildings. *Australian Journal of Structural Engineering*, **2015**, 16, 208-225	1.4	10
277	Dynamic response reconstruction for structural health monitoring using densely connected convolutional networks. *Structural Health Monitoring*, **2020**, 147592172091688	4.4	10
276	Multi-hazard resistance capacity of precast segmental columns under impact and cyclic loading. *International Journal of Protective Structures*, **2018**, 9, 24-43	1.5	10
275	Effect of crumb rubber on mechanical properties of multi-phase syntactic foams. *Polymer Testing*, **2018**, 66, 1-12	4.5	10
274	A Simplified Numerical Method for Blast Induced Structural Response Analysis. *International Journal of Protective Structures*, **2014**, 5, 323-348	1.5	10
273	A Mechanism of Hot-spots Formation at the Crack Tip of Al-PTFE under Quasi-static Compression. *Propellants, Explosives, Pyrotechnics*, **2017**, 42, 1366-1372	1.7	10
272	FEM Calibrated ARMAX Model Updating Method for Time Domain Damage Identification. *Advances in Structural Engineering*, **2013**, 16, 51-60	1.9	10
271	Evaluation of Bridge Load Carrying Capacity Using Updated Finite Element Model and Nonlinear Analysis. *Advances in Structural Engineering*, **2012**, 15, 1739-1750	1.9	10
270	Damage Identification of Steel Beams Using Local and Global Methods. *Advances in Structural Engineering*, **2012**, 15, 807-824	1.9	10
269	Torsional response of building structures to spatial random ground excitations. *Engineering Structures*, **1997**, 19, 105-112	4.7	10
268	Numerical Prediction of Reinforced Concrete Exterior Wall Response to Blast Loading. *Advances in Structural Engineering*, **2008**, 11, 355-367	1.9	10
267	Estimation of Strong Ground Motions in Southwest Western Australia with a Combined Green's Function and Stochastic Approach. *Journal of Earthquake Engineering*, **2008**, 12, 382-405	1.8	10
266	Inelastic analysis of steel frames with reduced beam sections. *Structural Design of Tall Buildings*, **2001**, 10, 231-244		10
265	Plastic limit analysis of a clamped circular plate with unified yield criterion. *Structural Engineering and Mechanics*, **1999**, 7, 513-525		10
264	Fragility analyses of offshore wind turbines subjected to aerodynamic and sea wave loadings. *Renewable Energy*, **2020**, 160, 1269-1282	8.1	10
263	Three-dimensional finite element modelling of rocking bridge piers under cyclic loading and exploration of options for increased energy dissipation. *Engineering Structures*, **2016**, 118, 74-88	4.7	10
262	Seismic Performance of Steel-Concrete Composite Rigid-Frame Bridge: Shake Table Test and Numerical Simulation. *Journal of Bridge Engineering*, **2020**, 25, 04020032	2.7	10
261	Flexural behaviour of ambient cured geopolymer concrete beams reinforced with BFRP bars under static and impact loads. *Composite Structures*, **2021**, 261, 113282	5.3	10

260	Probabilistic model updating via variational Bayesian inference and adaptive Gaussian process modeling. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 383, 113915	5.7	10
259	Damage Assessment of Two-Way RC Slab Subjected to Blast Load Using Mode Approximation Approach. *International Journal of Structural Stability and Dynamics*, **2017**, 17, 1750013	1.9	9
258	Compressive behaviour of tungsten fibre reinforced Zr-based metallic glass at different strain rates and temperatures. *International Journal of Impact Engineering*, **2017**, 106, 110-119	4	9
257	Structural damage identification by sparse deep belief network using uncertain and limited data. *Structural Control and Health Monitoring*, **2020**, 27, e2522	4.5	9
256	Failure and impact resistance analysis of plain and fiber-reinforced-polymer confined concrete cylinders under axial impact loads. *International Journal of Protective Structures*, **2018**, 9, 4-23	1.5	9
255	Simplified seismic resistant design of base isolated single pylon cable-stayed bridge. *Bulletin of Earthquake Engineering*, **2018**, 16, 5041-5059	3.7	9
254	On the effectiveness of rotational friction hinge damper to control responses of multi-span simply supported bridge to non-uniform ground motions. *Advances in Structural Engineering*, **2016**, 19, 1575-1591	1.9	9
253	Experimental Investigation on Monolithic Tempered Glass Window Responses to Blast Loads. *International Journal of Protective Structures*, **2015**, 6, 287-309	1.5	9
252	Numerical Simulation of Barge Impact on a Continuous Girder Bridge and Bridge Damage Detection. *International Journal of Protective Structures*, **2013**, 4, 79-96	1.5	9
251	Integrated health monitoring for reinforced concrete beams: An experimental study. *Australian Journal of Mechanical Engineering*, **2011**, 8, 207-217	1	9
250	Seismic Response Analysis of Transmission Tower-Line System on a Heterogeneous Site to Multi-Component Spatial Ground Motions. *Advances in Structural Engineering*, **2011**, 14, 457-474	1.9	9
249	A NUMERICAL STUDY OF DAMAGE DETECTION OF UNDERWATER PIPELINE USING VIBRATION-BASED METHOD. *International Journal of Structural Stability and Dynamics*, **2012**, 12, 1250021	1.9	9
248	Dynamic Response of Rigid Blocks to Simultaneous Horizontal and Vertical Ground Shock. *Advances in Structural Engineering*, **2012**, 15, 1069-1082	1.9	9
247	Numerical Simulation of Damage of Low-Rise RC Frame Structures with Infilled Masonry Walls to Explosive Loads. *Australian Journal of Structural Engineering*, **2006**, 7, 13-22	1.4	9
246	Statistical Properties of the Bukit Timah Granite in Singapore. *Journal of Testing and Evaluation*, **2000**, 28, 36	1	9
245	Behavior of Precast Segmental Concrete Beams Prestressed with External Steel and CFRP Tendons. *Journal of Composites for Construction*, **2020**, 24, 04020053	3.3	9
244	A state-of-the-art review of road tunnel subjected to blast loads. *Tunnelling and Underground Space Technology*, **2021**, 112, 103911	5.7	9
243	Experimental and numerical investigation on the compressive properties of interlocking blocks. *Engineering Structures*, **2021**, 228, 111561	4.7	9

242	Numerical and experimental study of steel wire mesh and basalt fibre mesh strengthened structural insulated panel against projectile impact. *Advances in Structural Engineering*, **2018**, 21, 1183-1196	1.9	9
241	Performance of monolithic and dry joints with GFRP bolts reinforced with different fibres and GFRP bars under impact loading. *Engineering Structures*, **2021**, 240, 112341	4.7	9
240	On the accuracy, reliability and controllability of impact tests of RC beams. *International Journal of Impact Engineering*, **2021**, 157, 103979	4	9
239	Control of wave-induced vibrations on floating production systems. *Ocean Engineering*, **2017**, 141, 35-52	3.9	8
238	Functionally graded truncated square pyramid folded structures with foam filler under dynamic crushing. *Composites Part B: Engineering*, **2019**, 177, 107410	10	8
237	Confidence-based quantitative risk analysis for offshore accidental hydrocarbon release events. *Journal of Loss Prevention in the Process Industries*, **2015**, 35, 117-124	3.5	8
236	Mesoscale modelling of concrete reinforced with spiral steel fibres under dynamic splitting tension. *Advances in Structural Engineering*, **2018**, 21, 1197-1210	1.9	8
235	Medium- and High-Frequency Vibration Characteristics of a Box-Girder by the Waveguide Finite Element Method. *International Journal of Structural Stability and Dynamics*, **2018**, 18, 1850141	1.9	8
234	Seismic performance of reinforced concrete frame buildings in Bhutan based on fuzzy probability analysis. *Soil Dynamics and Earthquake Engineering*, **2017**, 92, 604-620	3.5	8
233	Identification of de-bonding between steel bars and concrete using wavelet techniques: Comparative study. *Australian Journal of Structural Engineering*, **2013**, 14,	1.4	8
232	Rigid Structure Response Analysis to Seismic and Blast Induced Ground Motions. *Procedia Engineering*, **2011**, 14, 946-955		8
231	Required separation distance between decks and at abutments of a bridge crossing a canyon site to avoid seismic pounding. *Earthquake Engineering and Structural Dynamics*, **2009**, 39, n/a-n/a	4	8
230	Analysis of Coupled Lateral-Torsional-Pounding Responses of One-Storey Asymmetric Adjacent Structures Subjected to Bi-Directional Ground Motions Part II: Spatially Varying Ground Motion Input. *Advances in Structural Engineering*, **2005**, 8, 481-496	1.9	8
229	Dynamic buckling and post-buckling of imperfect columns under fluid–solid interaction. *International Journal of Solids and Structures*, **2001**, 38, 8879-8897	3.1	8
228	Numerical simulation of underground explosions. *International Journal for Blasting and Fragmentation*, **1998**, 2, 383-395		8
227	Response of a frame structure on a canyon site to spatially varying ground motions. *Structural Engineering and Mechanics*, **2010**, 36, 111-127		8
226	Experimental and numerical assessment of welded steel beam-column connections under impact loading. *Journal of Constructional Steel Research*, **2020**, 175, 106368	3.8	8
225	Simplified structural behaviours of post-tensioned inter-module connection for modular buildings. *Journal of Constructional Steel Research*, **2020**, 175, 106347	3.8	8

224	Shear behaviour of ambient cured geopolymer concrete beams reinforced with BFRP bars under static and impact loads. *Engineering Structures*, **2021**, 231, 111730	4.7	8
223	Prediction of BLEVE blast loading using CFD and artificial neural network. *Chemical Engineering Research and Design*, **2021**, 149, 711-723	5.5	8
222	Lateral behaviour of modular steel building with simplified models of new inter-module connections. *Engineering Structures*, **2021**, 236, 112103	4.7	8
221	Influence of Ground Motion Duration on Responses of Concrete Gravity Dams. *Journal of Earthquake Engineering*, **2020**, 24, 1156-1180	1.8	8
220	Numerical simulation of medium to large scale BLEVE and the prediction of BLEVE blast wave in obstructed environment. *Chemical Engineering Research and Design*, **2021**, 145, 94-109	5.5	8
219	Crushing performances of Kirigami modified honeycomb structure in three axial directions. *Thin-Walled Structures*, **2021**, 160, 107365	4.7	8
218	Influences of ground motion parameters and structural damping on the optimum design of inerter-based tuned mass dampers. *Engineering Structures*, **2021**, 227, 111422	4.7	8
217	Numerical study of open-top truncated pyramid folded structures with interconnected side walls against flatwise crushing. *Thin-Walled Structures*, **2018**, 132, 537-548	4.7	8
216	Stress Wave Mitigation Properties of Dual-meta Panels against Blast Loads. *International Journal of Impact Engineering*, **2021**, 154, 103877	4	8
215	Mechanical properties and energy absorption of bio-inspired hierarchical circular honeycomb. *Composites Part B: Engineering*, **2022**, 236, 109818	10	8
214	Three-dimensional vortex-induced vibration of a circular cylinder at subcritical Reynolds numbers with low-Re correction. *Marine Structures*, **2019**, 66, 288-306	3.8	7
213	Evaluation of Gas Explosion Overpressures at Configurations with Irregularly Arranged Obstacles. *Journal of Performance of Constructed Facilities*, **2015**, 29,	2	7
212	New epoxy anchor for better bonding between FRP sheets and concrete. *Construction and Building Materials*, **2020**, 248, 118628	6.7	7
211	Performance of concrete targets mixed with coarse aggregates against rigid projectile impact. *International Journal of Impact Engineering*, **2020**, 141, 103565	4	7
210	Influence of concrete strength on dynamic interfacial fracture behaviour between fibre reinforced polymer sheets and concrete. *Engineering Fracture Mechanics*, **2020**, 229, 106934	4.2	7
209	The blast resistant performance of concrete-filled steel-tube segmental columns. *Journal of Constructional Steel Research*, **2020**, 168, 105997	3.8	7
208	Response of a transmission tower-line system at a canyon site to spatially varying ground motions. *Journal of Zhejiang University: Science A*, **2011**, 12, 103-120	2.1	7
207	Dynamic Assessment of Shear Connection Conditions in Slab-Girder Bridges by Kullback-Leibler Distance. *Advances in Structural Engineering*, **2012**, 15, 771-780	1.9	7

206	Estimation of failure probabilities of RC frame structures in Singapore to the simulated largest credible ground motion. *Engineering Structures*, **2004**, 26, 139-150	4.7	7
205	Theoretical study of dynamic elastic buckling of columns subjected to intermediate velocity impact loads. *International Journal of Mechanical Sciences*, **2002**, 44, 687-702	5.5	7
204	Statistical Analysis of Anisotropic Damage of the Bukit Timah Granite. *Rock Mechanics and Rock Engineering*, **2001**, 34, 23-38	5.7	7
203	Finite element modelling of dynamic bonding behaviours between fibre reinforced polymer sheet and concrete. *Construction and Building Materials*, **2020**, 255, 118939	6.7	7
202	Dynamic compressive properties of novel lightweight ambient-cured EPS geopolymer composite. *Construction and Building Materials*, **2021**, 273, 122044	6.7	7
201	Near real-time bolt-loosening detection using mask and region-based convolutional neural network. *Structural Control and Health Monitoring*, **2021**, 28, e2741	4.5	7
200	Effect of CFRP strengthening properties with anchoring systems on P-I diagrams of RC panels under blast loads. *Construction and Building Materials*, **2019**, 200, 648-663	6.7	7
199	Performance of geopolymer concrete in monolithic and non-corrosive dry joints using CFRP bolts under cyclic loading. *Composite Structures*, **2021**, 258, 113394	5.3	7
198	Structural response recovery based on improved multi-scale principal component analysis considering sensor performance degradation. *Advances in Structural Engineering*, **2018**, 21, 241-255	1.9	7
197	Application of deep autoencoder model for structural condition monitoring. *Journal of Systems Engineering and Electronics*, **2018**, 29, 873	1.3	7
196	Numerical Study of the Seismic Responses of Precast Segmental Column Bridge under Spatially Varying Ground Motions. *Journal of Bridge Engineering*, **2018**, 23, 04018096	2.7	7
195	Vented gas explosion overpressure prediction of obstructed cubic chamber by Bayesian Regularization Artificial Neuron Network Bauwens model. *Journal of Loss Prevention in the Process Industries*, **2018**, 56, 209-216	3.5	7
194	Numerical study on bending response of precast segmental concrete beams externally prestressed with FRP tendons. *Engineering Structures*, **2021**, 241, 112423	4.7	7
193	Stochastic dynamic analysis of marine risers considering fluid-structure interaction and system uncertainties. *Engineering Structures*, **2019**, 198, 109507	4.7	6
192	Volumetric Properties of Concrete under True Triaxial Dynamic Compressive Loadings. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019126	3	6
191	Experimental study of multi-layer folded truncated structures under dynamic crushing. *International Journal of Impact Engineering*, **2019**, 131, 111-122	4	6
190	Mechanical behaviors of 3D re-entrant honeycomb polyamide structure under compression. *Materials Today Communications*, **2020**, 24, 101062	2.5	6
189	Failure Behaviors of Oriented Strand Board Material under Quasi-Static and Dynamic Loads. *Journal of Materials in Civil Engineering*, **2018**, 30, 04017297	3	6

188	Characteristics of Free Air Blast Loading Due to Simultaneously Detonated Multiple Charges. *International Journal of Structural Stability and Dynamics*, **2014**, 14, 1450002	1.9	6
187	Numerical Analysis of Concrete Material Properties at High Strain Rate Under Direct Tension. *Procedia Engineering*, **2011**, 14, 336-343		6
186	Numerical Modelling of Masonry Wall Response to Blast Loads. *Australian Journal of Structural Engineering*, **2009**, 10, 37-52	1.4	6
185	Response of a Rc Bridge in WA to Simulated Spatially Varying Seismic Ground Motions. *Australian Journal of Structural Engineering*, **2008**, 8, 85-98	1.4	6
184	Effect of simultaneous spatial near-source ground excitation and soil on the pounding response of bridge girders. *Journal of Applied Mechanics*, **2003**, 6, 779-788		6
183	LOCAL-MODE RESONANCE AND ITS STRUCTURAL EFFECTS UNDER HORIZONTAL GROUND SHOCK EXCITATIONS. *Journal of Sound and Vibration*, **2002**, 254, 51-68	3.9	6
182	Effect of porosity on the properties of strain localization in porous media under undrained conditions. *International Journal of Solids and Structures*, **2002**, 39, 1817-1831	3.1	6
181	A Unified Characteristic Theory for Plastic Plane Stress and Strain Problems. *Journal of Applied Mechanics, Transactions ASME*, **2003**, 70, 649-654	2.7	6
180	Dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. *International Journal of Solids and Structures*, **2020**, 202, 587-604	3.1	6
179	Numerical study of the seismic performance and damage mitigation of steel–concrete composite rigid-frame bridge subjected to across-fault ground motions. *Bulletin of Earthquake Engineering*, **2020**, 18, 6687-6714	3.7	6
178	Free water effect on the dynamic compressive properties of mortar. *Cement and Concrete Composites*, **2021**, 118, 103933	8.6	6
177	An efficient method to derive statistical mechanical properties of concrete reinforced with spiral-shaped steel fibres in dynamic tension. *Construction and Building Materials*, **2016**, 124, 732-745	6.7	6
176	Pullout and flexural performance of silane groups and hydrophilic groups grafted polypropylene fibre reinforced UHPC. *Construction and Building Materials*, **2021**, 277, 122335	6.7	6
175	Numerical simulation of stress wave interaction in short-delay blasting with a single free surface. *PLoS ONE*, **2018**, 13, e0204166	3.7	6
174	In Situ Data Analysis for Condition Assessment of an Existing Prestressed Concrete Bridge. *Journal of Aerospace Engineering*, **2018**, 31, 04018106	1.4	6
173	Dynamic compressive properties of high volume fly ash (HVFA) concrete with nano silica. *Construction and Building Materials*, **2021**, 301, 124352	6.7	6
172	Computer vision based target-free 3D vibration displacement measurement of structures. *Engineering Structures*, **2021**, 246, 113040	4.7	6
171	Simplified multiple equations' inverse problem of vented vessels subjected to internal gas explosions. *Journal of Loss Prevention in the Process Industries*, **2015**, 35, 65-79	3.5	5

170	Damage identification of slab–girder structures: experimental studies. *Journal of Civil Structural Health Monitoring*, **2013**, 3, 93-103	2.9	5
169	Development of a New Nonbuckling Segmented Brace. *International Journal of Structural Stability and Dynamics*, **2015**, 15, 1540012	1.9	5
168	Study on Simulation Performance of Solar Energy and Gas Heat Pump for Heating Supply. *Procedia Engineering*, **2015**, 121, 1482-1489		5
167	Numerical and Theoretical Study of Concrete Spall Damage under Blast Loads. *Applied Mechanics and Materials*, **2014**, 553, 774-779	0.3	5
166	A Study of Corrolink Structural Insulated Panel (SIP) to Windborne Debris Impacts. *Key Engineering Materials*, **2014**, 626, 68-73	0.4	5
165	Numerical Quantification of Factors Influencing High-Speed Impact Tests of Concrete Material **2012**, 97-130		5
164	Damage Detection of Shear Connectors Based on Power Spectral Density Transmissibility. *Key Engineering Materials*, **2013**, 569-570, 1241-1248	0.4	5
163	Estimation of strong seismic ground motion for engineering use in Perth Western Australia. *Soil Dynamics and Earthquake Engineering*, **2009**, 29, 909-924	3.5	5
162	Evaluation of the Effectiveness of Strengthening Intervention by CFRP on MRWA Bridge No. 3014. *Journal of Composites for Construction*, **2007**, 11, 363-374	3.3	5
161	Distinctive and fuzzy failure probability analysis of an anisotropic rock mass to explosion load. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 767-786	2.4	5
160	Experimental study of dynamic post-buckling characteristics of columns under fluid–solid slamming. *Engineering Structures*, **2000**, 22, 647-656	4.7	5
159	Effects of Axial Air Deck on Blast-Induced Ground Vibration. *Rock Mechanics and Rock Engineering*,1	5.7	5
158	Numerical investigation of flexural behaviours of precast segmental concrete beams internally post-tensioned with unbonded FRP tendons under monotonic loading. *Engineering Structures*, **2021** , 249, 113341	4.7	5
157	Damage Detection in Initially Nonlinear Structures Based on Variational Mode Decomposition. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2042009	1.9	5
156	Dynamic compressive properties of Kalgoorlie basalt rock. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 135, 104512	6	5
155	Structural damage identification with limited modal measurements and ultra-sparse Bayesian regression. *Structural Control and Health Monitoring*, **2021**, 28, e2729	4.5	5
154	Experimental and Numerical Study of Basalt FRP Strip Strengthened RC Slabs under Impact Loads. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2040001	1.9	5
153	Simulation of Spatially Varying Seafloor Motions Using Onshore Earthquake Recordings. *Journal of Engineering Mechanics - ASCE*, **2018**, 144, 04018085	2.4	5

152	Sensitivity of lateral impact response of RC columns reinforced with GFRP bars and stirrups to concrete strength and reinforcement ratio. *Engineering Structures*, **2021**, 242, 112512	4.7	5
151	Effect of engineered aggregate configuration and design on stress wave attenuation of metaconcrete rod structure. *International Journal of Solids and Structures*, **2021**, 232, 111182	3.1	5
150	Effect of Adding Methylcellulose on Mechanical and Vibration Properties of Geopolymer Paste and Hybrid Fiber-Reinforced Geopolymer Composite. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020166	3	4
149	Effectiveness of Using RFHDS Connected PIP System for Subsea Pipeline Vibration Control. *International Journal of Structural Stability and Dynamics*, **2018**, 18, 1840005	1.9	4
148	Development of an integrated structural health monitoring system for bridge structures in operational conditions. *Frontiers of Structural and Civil Engineering*, **2012**, 6, 321	2.5	4
147	Development of a Simplified Numerical Method for Structural Response Analysis to Blast Load. *Procedia Engineering*, **2011**, 14, 2558-2566		4
146	Modelling damage potential of high-frequency ground motions. *Earthquake Engineering and Structural Dynamics*, **2003**, 32, 1483-1503	4	4
145	Micro-seismic monitoring in mines based on cross wavelet transform. *Earthquake and Structures*, **2016**, 11, 1143-1164		4
144	Experimental investigation on dynamic properties of ultra-high-performance rubberized concrete (UHPRuC). *Construction and Building Materials*, **2021**, 307, 125104	6.7	4
143	Using a single sensor for bridge condition monitoring via moving embedded principal component analysis. *Structural Health Monitoring*,147592172098051	4.4	4
142	Textured pipe-in-pipe system: A compound passive technique for vortex-induced vibration control. *Applied Ocean Research*, **2020**, 95, 102044	3.4	4
141	Defect detection in pipe structures using stochastic resonance of Duffing oscillator and ultrasonic guided waves. *International Journal of Pressure Vessels and Piping*, **2020**, 187, 104168	2.4	4
140	Effect of rubber aggregate size on static and dynamic compressive properties of rubberized concrete. *Structural Concrete*,	2.6	4
139	Numerical analysis of axial load effects on RC bridge columns under blast loading. *Advances in Structural Engineering*, **2021**, 24, 1399-1414	1.9	4
138	Development and application of random forest technique for element level structural damage quantification. *Structural Control and Health Monitoring*, **2021**, 28, e2678	4.5	4
137	The mechanical performance of concrete shear key for prefabricated structures. *Advances in Structural Engineering*, **2021**, 24, 291-306	1.9	4
136	Vulnerability Analyses of Structural Insulated Panels with OSB Skins Strengthened by Basalt Fiber Cloth Subjected to Windborne Debris Impact. *International Journal of Structural Stability and Dynamics*, **2018**, 18, 1850088	1.9	4
135	Identification of time-varying nonlinear structural physical parameters by integrated WMA and UKF/UKF-UI. *Nonlinear Dynamics*, **2021**, 106, 681-706	5	4

134	Passive vibration control of engineering structures based on an innovative column-in-column (CIC) concept. *Engineering Structures*, **2021**, 242, 112599	4.7	4
133	Impact response of a novel sandwich structure with Kirigami modified corrugated core. *International Journal of Impact Engineering*, **2021**, 156, 103953	4	4
132	Densely connected convolutional networks for vibration based structural damage identification. *Engineering Structures*, **2021**, 245, 112871	4.7	4
131	Numerical study of the compressive behavior of concrete material at high strain rate with active confinement. *Advances in Structural Engineering*, **2019**, 22, 2359-2372	1.9	3
130	The response of precast concrete segmental columns subjected to near base impact. *International Journal of Protective Structures*, **2019**, 10, 229-250	1.5	3
129	Preliminary Study of Sandwich Panel with Rotational Friction Hinge Device against Blast Loadings. *Key Engineering Materials*, **2013**, 535-536, 530-533	0.4	3
128	The Effect of Anchorages on FRP Strengthening of RC Walls to Resist Blast Loads. *Applied Mechanics and Materials*, **2011**, 82, 497-502	0.3	3
127	Dynamic response analysis of rock mass with stochastic properties subjected to explosive loads. *International Journal for Blasting and Fragmentation*, **1999**, 3, 137-153		3
126	Numerical study of bio-inspired energy-absorbing device using shear thickening fluid (STF). *International Journal of Impact Engineering*, **2022**, 162, 104158	4	3
125	Blast Resistant Enhancement of Meta-panels Using Multiple Types of Resonators. *International Journal of Mechanical Sciences*, **2021**, 215, 106965	5.5	3
124	A substructural and wavelet multiresolution approach for identifying time-varying physical parameters by partial measurements. *Journal of Sound and Vibration*, **2022**, 523, 116737	3.9	3
123	Damping properties and dynamic responses of metaconcrete beam structures subjected to transverse loading. *Construction and Building Materials*, **2021**, 311, 125273	6.7	3
122	Experimental and numerical assessment of stress wave attenuation of metaconcrete rods subjected to impulsive loads. *International Journal of Impact Engineering*, **2022**, 159, 104052	4	3
121	Dynamic response of monolithic and precast concrete joint with wet connections under impact loads. *Engineering Structures*, **2022**, 250, 113434	4.7	3
120	Dynamic Buckling and Collapse of Rectangular Plates under Intermediate Velocity Impact **2001**, 365-372		3
119	Enhanced vibration decomposition method based on multisynchrosqueezing transform and analytical mode decomposition. *Structural Control and Health Monitoring*, **2021**, 28, e2730	4.5	3
118	Experimental and numerical studies on square steel-reinforced concrete-filled steel tubular (SRCFST) members subjected to lateral impact. *Thin-Walled Structures*, **2021**, 160, 107409	4.7	3
117	Spall Behaviors of Metaconcrete: 3D Meso-Scale Modelling. *International Journal of Structural Stability and Dynamics*, **2021**, 21, 2150121	1.9	3

116	Nonlinear structural damage detection using output-only Volterra series model. *Structural Control and Health Monitoring*, **2021**, 28, e2802	4.5	3
115	Improving identifiability of structural damage using higher order responses and phase space technique. *Structural Control and Health Monitoring*, **2021**, 28, e2808	4.5	3
114	Numerical Study of Basalt Fibre Cloth Strengthened Structural Insulated Panel under Windborne Debris Impact. *Applied Mechanics and Materials*, **2016**, 846, 446-451	0.3	3
113	An integrated model for vent area design of hydrocarbon-air mixture explosion inside cubic enclosures with obstacles. *Journal of Loss Prevention in the Process Industries*, **2019**, 57, 61-72	3.5	3
112	Dynamic Analysis of Nonclassically Damped Systems with Linear Behavior Using Load-Dependent Ritz Vectors. *International Journal of Structural Stability and Dynamics*, **2019**, 19, 1950022	1.9	3
111	On the effectiveness of ventilation to mitigate the damage of spherical chambers subjected to confined trinitrotoluene detonations. *Advances in Structural Engineering*, **2019**, 22, 486-501	1.9	3
110	Review on impact response of reinforced concrete beams: Contemporary understanding and unsolved problems. *Advances in Structural Engineering*, **2021**, 24, 2282-2303	1.9	3
109	Effect of high strain rate and confinement on the compressive properties of autoclaved aerated concrete. *International Journal of Impact Engineering*, **2021**, 156, 103943	4	3
108	Numerical evaluation of the impact performance of precast concrete segmental columns and strengthening techniques. *Engineering Structures*, **2021**, 244, 112725	4.7	3
107	Superelastic CuAlBe wire-based sliding lead rubber bearings for seismic isolation of bridges in cold regions. *Engineering Structures*, **2021**, 247, 113102	4.7	3
106	Bridge Condition Assessment Under Moving Loads Using Multi-sensor Measurements and Vibration Phase Technology. *Lecture Notes in Mechanical Engineering*, **2018**, 73-84	0.4	2
105	Influence of Higher Modes on Strength and Ductility Demands of Soil–Structure Systems. *Journal of Earthquake and Tsunami*, **2016**, 10, 1650006	1.1	2
104	Multi-scale stochastic dynamic response analysis of offshore risers with lognormal uncertainties. *Ocean Engineering*, **2019**, 189, 106333	3.9	2
103	Seismic Performance of Reinforced Concrete Buildings in Thimphu, Bhutan. *International Journal of Structural Stability and Dynamics*, **2017**, 17, 1750074	1.9	2
102	Experimental Tests of Steel Fibre Reinforced Concrete Beams under Drop-Weight Impacts. *Key Engineering Materials*, **2014**, 626, 311-316	0.4	2
101	Stability of Simple Beam Subjected to Multiple Seismic Excitations. *Journal of Engineering Mechanics - ASCE*, **1997**, 123, 739-742	2.4	2
100	Ductility spectra of reinforced concrete structures subjected to far-field seismic excitations. *Engineering Structures*, **1997**, 19, 568-575	4.7	2
99	Numerical prediction of statistical masonry wall fragment distribution induced by blast loading. *Transactions of Tianjin University*, **2008**, 14, 409-413	2.9	2

98	Comments on bridge girder seating length under current design regulations. *Journal of Applied Mechanics*, **2006**, 9, 691-699		2
97	Analysis of discontinuous bifurcations for elasto-plastic geomaterials with effect of damage. *Acta Mechanica*, **2002**, 159, 65-76	2.1	2
96	Numerical Study of Dynamic Buckling of Steel Columns Subjected to Underground Explosion. *Key Engineering Materials*, **2003**, 233-236, 211-216	0.4	2
95	Dynamic response of road tunnel subjected to internal Boiling liquid expansion vapour explosion (BLEVE). *Tunnelling and Underground Space Technology*, **2022**, 123, 104363	5.7	2
94	Dynamic Fracture in Brittle Solids at High Rates of Loading. *Journal of Applied Mechanics, Transactions ASME*, **2003**, 70, 454-457	2.7	2
93	Performance of RC Beams with or without FRP Strengthening Subjected to Impact Loading		2
92	Influence of ground motion spatial variations and local soil conditions on the seismic responses of buried segmented pipelines. *Structural Engineering and Mechanics*, **2012**, 44, 663-680		2
91	Numerical study on impact resistance of metaconcrete. *Scientia Sinica: Physica, Mechanica Et Astronomica*, **2020**, 50, 024609	1.5	2
90	Performance of spiral-shaped steel fibre reinforced concrete structure under static and dynamic loads **2015**,		2
89	Dynamic tensile properties of clay brick at high strain rates. *Mechanics of Materials*, **2021**, 104157	3.3	2
88	Experimental methods for inter-module joints in modular building structures – A state-of-the-art review. *Journal of Building Engineering*, **2021**, 46, 103792	5.2	2
87	Dynamic compressive properties of reinforced and kirigami modified honeycomb in three axial directions. *Thin-Walled Structures*, **2022**, 171, 108692	4.7	2
86	Effect of fibre reinforcements on shear capacity of geopolymer concrete beams subjected to impact load. *International Journal of Impact Engineering*, **2022**, 159, 104056	4	2
85	Impact Responses of Precast Hollow Reinforced Concrete Beams with Prestress Tendons using High-Fidelity Physics-Based Simulations. *Engineering Failure Analysis*, **2021**, 105850	3.2	2
84	High-resolution time-frequency representation for instantaneous frequency identification by adaptive Duffing oscillator. *Structural Control and Health Monitoring*, **2020**, 27, e2635	4.5	2
83	Improved analysis method for structural members subjected to blast loads considering strain hardening and softening effects. *Advances in Structural Engineering*, **2021**, 24, 2622-2636	1.9	2
82	Numerical investigation of the failure mechanism of cubic concrete specimens in SHPB tests. *Defence Technology*, **2021**,	3	2
81	Model for analytical investigation on meta-lattice truss for low-frequency spatial wave manipulation. *Wave Motion*, **2021**, 103, 102735	1.8	2

80	Physical and Mechanical Properties of New Lightweight Ambient-Cured EPS Geopolymer Composites. *Journal of Materials in Civil Engineering*, **2021**, 33, 04021094	3	2
79	Additional afterburning energy value to simulate fully confined trinitrotoluene explosions. *International Journal of Protective Structures*, **2016**, 7, 232-264	1.5	2
78	Investigation on the lateral impact responses of circular concrete-filled double-tube (CFDT) members. *Composite Structures*, **2021**, 255, 112993	5.3	2
77	Reliability based design optimization of bridges considering bridge-vehicle interaction by Kriging surrogate model. *Engineering Structures*, **2021**, 246, 112989	4.7	2
76	Effect of grounded blast furnace slag and rice husk ash on performance of ultra-high-performance concrete (UHPC) subjected to impact loading. *Construction and Building Materials*, **2022**, 329, 127213	6.7	2
75	Simultaneous identification of structural damage and nonlinear hysteresis parameters by an evolutionary algorithm-based artificial neural network. *International Journal of Non-Linear Mechanics*, **2022**, 142, 103970	2.8	2
74	On the effectiveness of ventilation to mitigate the damage of spherical membrane vessels subjected to internal detonations. *International Journal of Protective Structures*, **2020**, 11, 319-339	1.5	1
73	Spallation of reinforced concrete slabs under contact explosion **2016**,		1
72	Mechanical properties of carbon foams under quasi-static and dynamic loading. *International Journal of Mechanical Sciences*, **2019**, 161-162, 105039	5.5	1
71	The Analysis of the Performance of Heating and the Economical Efficiency of the Solar Energy and Gas Heat Pump. *Procedia Engineering*, **2015**, 121, 1490-1496		1
70	Numerical Evaluation of Energy Absorption in Ship-Offshore Fixed Platform Collisions **2014**,		1
69	A study of variability and applicability of various signal processing techniques in structural system identification. *Australian Journal of Structural Engineering*, **2013**, 14,	1.4	1
68	Vibration-Based Damage Detection of Pipeline System by HHT Method. *Applied Mechanics and Materials*, **2011**, 99-100, 1067-1072	0.3	1
67	Influence of Fibre Shapes on Dynamic Compressive Behaviour of Fibre Reinforced Concrete. *Applied Mechanics and Materials*, **2011**, 82, 112-117	0.3	1
66	Numerical simulations of the performance of steel guardrails under vehicle impact. *Transactions of Tianjin University*, **2008**, 14, 318-323	2.9	1
65	Dynamic assessment of undersea pipeline bedding condition **2007**,		1
64	Elastic-Plastic Dynamic Response and Buckling of Steel Columns under Strong Vertical Ground Motion. *Key Engineering Materials*, **2003**, 233-236, 217-222	0.4	1
63	Estimation of required seating length of bridge girders under non-uniform ground excitation and different ground conditions. *Journal of Applied Mechanics*, **2005**, 8, 709-718		1

62	Comparison study of coupling effects of explosive charge on ground vibrations. *International Journal for Blasting and Fragmentation*, **1998**, 2, 25-37		1
61	Data driven structural damage assessment using phase space embedding and Koopman operator under stochastic excitations. *Engineering Structures*, **2022**, 255, 113906	4.7	1
60	An innovative pendulum-type column-in-column (PCIC) system for structural vibration control induced by seismic ground excitations. *Engineering Structures*, **2022**, 256, 113990	4.7	1
59	Calculation of BLEVE energy and overpressures inside a tunnel using analytical and CFD methods. *Tunnelling and Underground Space Technology*, **2021**, 120, 104263	5.7	1
58	Discussion on the suitability of dynamic constitutive models for prediction of geopolymer concrete structural responses under blast and impact loading. *International Journal of Impact Engineering*, **2021**, 104064	4	1
57	Free and Forced Vibrations of an Undamped Double-Beam System Carrying a Tip Mass with Rotary Inertia. *Journal of Engineering Mechanics - ASCE*, **2022**, 148,	2.4	1
56	Influence of connection properties on seismic performance of post-tensioned self-centering concrete frames. *Journal of Building Engineering*, **2022**, 46, 103761	5.2	1
55	Structural Damage Detection with Uncertainties Using a Modified Tree Seeds Algorithm. *Mechanisms and Machine Science*, **2020**, 751-760	0.3	1
54	Failure mechanism of geopolymer composite lightweight sandwich panel under flexural and edgewise compressive loads. *Construction and Building Materials*, **2021**, 270, 121496	6.7	1
53	Review of piezoelectric impedance based structural health monitoring: Physics-based and data-driven methods. *Advances in Structural Engineering*,136943322110384	1.9	1
52	Dynamic tensile behaviors of welded steel joint material. *Journal of Constructional Steel Research*, **2021**, 183, 106700	3.8	1
51	Development of double-helix macro BFRP fibers for concrete reinforcement. *Materials and Structures/Materiaux Et Constructions*, **2021**, 54, 1	3.4	1
50	Estimation of relative displacement of two adjacent asymmetric structures **2001**, 30, 81		1
49	Behavior of Ultrahigh-Performance Concrete Bridge Decks with New Y-Shape FRP Stay-in-Place Formworks. *Journal of Composites for Construction*, **2022**, 26,	3.3	1
48	Damage evaluation of a welded beam□olumn joint with surface imperfections subjected to impact loads. *Engineering Structures*, **2022**, 261, 114276	4.7	1
47	Some special phenomena and preliminary interpretations about measured strain signals from high-speed impact tests. *International Journal of Structural Engineering*, **2012**, 3, 48	0.9	0
46	Design Earthquake Ground Motion Prediction for Perth Metropolitan Area with Microtremor Measurements for Site Characterization. *Journal of Earthquake Engineering*, **2009**, 13, 997-1028	1.8	0
45	Damage detection in bridges under moving loads based on subspace projection residuals. *Advances in Structural Engineering*,136943322110561	1.9	0

44	Blast fragility analysis of RC columns considering chloride-induced corrosion of steel reinforcement. *Structural Safety*, **2022**, 96, 102200	4.9	0
43	Proposed new dry and hybrid concrete joints with GFRP bolts and GFRP reinforcement under cyclic loading: Testing and analysis. *Journal of Building Engineering*, **2022**, 49, 104033	5.2	0
42	Improved resistance functions for RC elements accounting for compressive and tensile membrane actions. *Engineering Structures*, **2022**, 251, 113549	4.7	0
41	Numerical Study of Precast Concrete Beam Under Impact Loads. *Lecture Notes in Civil Engineering*, **2020**, 557-568	0.3	0
40	Using Deep Learning Technique for Recovering the Lost Measurement Data. *Lecture Notes in Civil Engineering*, **2021**, 229-237	0.3	0
39	Numerical study of using shape memory alloy-based tuned mass dampers to control seismic responses of wind turbine tower. *Engineering Structures*, **2022**, 250, 113452	4.7	0
38	Numerical analysis of dynamic responses of laminated glass window subjected to gas explosions. *Engineering Structures*, **2021**, 238, 112243	4.7	0
37	Experimental and analytical study of flexural behaviour of BFRP sheets strengthened RC beams with new epoxy anchors. *Engineering Structures*, **2021**, 241, 112441	4.7	0
36	Wave flume tests of a semi-submersible platform controlled by a novel rotational inertia damper. *Ocean Engineering*, **2021**, 238, 109718	3.9	0
35	An investigation of impact resistance capacity of polypropylene (PP) added plasterboard subjected to soft-body impact. *Composite Structures*, **2021**, 275, 114370	5.3	0
34	Experimental and numerical studies of the shear resistance capacities of interlocking blocks. *Journal of Building Engineering*, **2021**, 44, 103230	5.2	0
33	Prestress Force Monitoring and Quantification of Precast Segmental Beams through Neutral Axis Location Identification. *Applied Sciences (Switzerland)*, **2022**, 12, 2756	2.6	0
32	Structural damage detection by integrating robust PCA and classical PCA for handling environmental variations and imperfect measurement data. *Advances in Structural Engineering*,13694332210790	1.9	0
31	A reinvestigation of the spring-mass model for metamaterial bandgap prediction. *International Journal of Mechanical Sciences*, **2022**, 221, 107219	5.5	0
30	Vortex-induced vibration of a full-diamond textured cylinder at subcritical Reynolds numbers. *Marine Structures*, **2022**, 83, 103193	3.8	0
29	Numerical investigation of the failure mechanism of concrete specimens under tri-axial dynamic loads. *Engineering Fracture Mechanics*, **2022**, 266, 108425	4.2	0
28	Development of efficient methods for prediction of medium to large scale BLEVE pressure in open space. *Chemical Engineering Research and Design*, **2022**, 161, 421-435	5.5	0
27	Effect of enhanced coating layer on the bandgap characteristics and response of metaconcrete. *Mechanics of Advanced Materials and Structures*,1-14	1.8	0

26	Performance of sandwich cladding with modular truncated square pyramid foldcore under projectile impact. *International Journal of Impact Engineering*, **2022**, 166, 104258	4	0
25	Effect of internal explosion on tunnel secondary and adjacent structures: A review. *Tunnelling and Underground Space Technology*, **2022**, 126, 104536	5.7	0
24	Static mechanical properties and stress wave attenuation of metaconcrete subjected to impulsive loading. *Engineering Structures*, **2022**, 263, 114382	4.7	0
23	Structural damage detection via phase space based manifold learning under changing environmental and operational conditions. *Engineering Structures*, **2022**, 263, 114420	4.7	0
22	Structural performance evaluation of UHPC/conventional concrete cast on new Y-shape FRP stay-in-place formwork for concrete bridge decks. *Structures*, **2022**, 41, 1077-1091	3.4	0
21	Influence of various impact scenarios on the dynamic performance of concrete beam-column joints. *International Journal of Impact Engineering*, **2022**, 167, 104284	4	0
20	Output-only complete mode shape identification of bridges using a limited number of sensors. *Mechanical Systems and Signal Processing*, **2022**, 178, 109246	7.8	0
19	Structural Response under Blast Loads - Simplified Numerical Analysis. *Applied Mechanics and Materials*, **2015**, 782, 13-26	0.3	
18	Numerical Study of Corrugated Metal Panels Subjected to Windborne Debris Impacts. *Key Engineering Materials*, **2014**, 626, 109-114	0.4	
17	Seismic response analyses and performance assessment of masonry-infilled reinforced concrete frame buildings in Bhutan without and with soft storey. *Advances in Structural Engineering*, **2017**, 20, 822-839	1.9	
16	Numerical Studies on the Blast-Resistant Capacity of Stiffened Multiple-Arch Panel. *Key Engineering Materials*, **2013**, 535-536, 514-517	0.4	
15	Localization of free-spanning damage using mode shape curvature. *Journal of Physics: Conference Series*, **2011**, 305, 012017	0.3	
14	Influence of Uncertain Source Parameters on Strong Ground Motion Simulation with the Empirical Green's Function Method. *Journal of Earthquake Engineering*, **2009**, 13, 791-813	1.8	
13	Gelation Crystallization of Poly(L-Lactide) in Solvents of Varying Molecular Size. *Polymers and Polymer Composites*, **2007**, 15, 389-393	0.8	
12	Chamber wall damage induced by a contained explosion. *International Journal of Rock Mechanics and Minings Sciences*, **2004**, 41, 539-544	6	
11	An Improved SSI Approach for Structural Modal Identification. *Lecture Notes in Civil Engineering*, **2020**, 887-897	0.3	
10	Using Novel Time Frequency Analysis Method for Time-Varying System Identification. *Lecture Notes in Civil Engineering*, **2021**, 239-246	0.3	
9	Effect of High Speed Rail Transit and Impact Loads on Ballast Degradation. *Lecture Notes in Mechanical Engineering*, **2015**, 521-531	0.4	

8	Experimental study of friction effect under impact loading. *Wuli Xuebao/Acta Physica Sinica*, **2013**, 62, 116203	0.6
7	Performance of steel reinforced high strength concrete investigated in the gas gun experiment. *Wuli Xuebao/Acta Physica Sinica*, **2013**, 62, 016201	0.6
6	Study on Components Match of Solar-Ground Source Heat Pump and Heating Network Complementary Heating System in Severe Cold Region. *Lecture Notes in Electrical Engineering*, **2014**, 509-518	0.2
5	The Complementary Heating Energy Ratio Research of Solar: Ground Source Heat Pump and Heating Network in Cold Regions. *Lecture Notes in Electrical Engineering*, **2014**, 757-766	0.2
4	Critical review of Molkov's phenomenological model and variable stretch/turbulence function. *Journal of Loss Prevention in the Process Industries*, **2016**, 43, 225-241	3.5
3	Behaviours of column-in-column (CIC) system under axial compression: Experimental and theoretical studies. *Journal of Constructional Steel Research*, **2022**, 192, 107217	3.8
2	Challenges of Effective Blast Protection of Buildings. *Springer Tracts in Civil Engineering*, **2022**, 93-117	0.4
1	Lifetime seismic performance assessment on post-tensioned self-centering concrete frames considering long-term prestress loss. *Engineering Structures*, **2022**, 262, 114321	4.7