

Hong Hao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Data driven structural damage assessment using phase space embedding and Koopman operator under stochastic excitations. <i>Engineering Structures</i> , 2022 , 255, 113906	4.7	1
690	Numerical study of bio-inspired energy-absorbing device using shear thickening fluid (STF). <i>International Journal of Impact Engineering</i> , 2022 , 162, 104158	4	3
689	Blast fragility analysis of RC columns considering chloride-induced corrosion of steel reinforcement. <i>Structural Safety</i> , 2022 , 96, 102200	4.9	0
688	Proposed new dry and hybrid concrete joints with GFRP bolts and GFRP reinforcement under cyclic loading: Testing and analysis. <i>Journal of Building Engineering</i> , 2022 , 49, 104033	5.2	0
687	Dynamic response of road tunnel subjected to internal Boiling liquid expansion vapour explosion (BLEVE). <i>Tunnelling and Underground Space Technology</i> , 2022 , 123, 104363	5.7	2
686	An innovative pendulum-type column-in-column (PCIC) system for structural vibration control induced by seismic ground excitations. <i>Engineering Structures</i> , 2022 , 256, 113990	4.7	1
685	Improved resistance functions for RC elements accounting for compressive and tensile membrane actions. <i>Engineering Structures</i> , 2022 , 251, 113549	4.7	0
684	Free and Forced Vibrations of an Undamped Double-Beam System Carrying a Tip Mass with Rotary Inertia. <i>Journal of Engineering Mechanics - ASCE</i> , 2022 , 148,	2.4	1
683	Influence of connection properties on seismic performance of post-tensioned self-centering concrete frames. <i>Journal of Building Engineering</i> , 2022 , 46, 103761	5.2	1
682	Dynamic compressive properties of reinforced and kirigami modified honeycomb in three axial directions. <i>Thin-Walled Structures</i> , 2022 , 171, 108692	4.7	2
681	A substructural and wavelet multiresolution approach for identifying time-varying physical parameters by partial measurements. <i>Journal of Sound and Vibration</i> , 2022 , 523, 116737	3.9	3
680	Effect of fibre reinforcements on shear capacity of geopolymer concrete beams subjected to impact load. <i>International Journal of Impact Engineering</i> , 2022 , 159, 104056	4	2
679	Experimental and numerical assessment of stress wave attenuation of metaconcrete rods subjected to impulsive loads. <i>International Journal of Impact Engineering</i> , 2022 , 159, 104052	4	3
678	Numerical study of using shape memory alloy-based tuned mass dampers to control seismic responses of wind turbine tower. <i>Engineering Structures</i> , 2022 , 250, 113452	4.7	0
677	Dynamic response of monolithic and precast concrete joint with wet connections under impact loads. <i>Engineering Structures</i> , 2022 , 250, 113434	4.7	3
676	Prestress Force Monitoring and Quantification of Precast Segmental Beams through Neutral Axis Location Identification. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2756	2.6	0
675	Effect of grounded blast furnace slag and rice husk ash on performance of ultra-high-performance concrete (UHPC) subjected to impact loading. <i>Construction and Building Materials</i> , 2022 , 329, 127213	6.7	2

674	A reinvestigation of the spring-mass model for metamaterial bandgap prediction. <i>International Journal of Mechanical Sciences</i> , 2022 , 221, 107219	5.5	0
673	Vortex-induced vibration of a full-diamond textured cylinder at subcritical Reynolds numbers. <i>Marine Structures</i> , 2022 , 83, 103193	3.8	0
672	Mechanical properties and energy absorption of bio-inspired hierarchical circular honeycomb. <i>Composites Part B: Engineering</i> , 2022 , 236, 109818	10	8
671	Numerical investigation of the failure mechanism of concrete specimens under tri-axial dynamic loads. <i>Engineering Fracture Mechanics</i> , 2022 , 266, 108425	4.2	0
670	Development of efficient methods for prediction of medium to large scale BLEVE pressure in open space. <i>Chemical Engineering Research and Design</i> , 2022 , 161, 421-435	5.5	0
669	Behaviours of column-in-column (CIC) system under axial compression: Experimental and theoretical studies. <i>Journal of Constructional Steel Research</i> , 2022 , 192, 107217	3.8	
668	Simultaneous identification of structural damage and nonlinear hysteresis parameters by an evolutionary algorithm-based artificial neural network. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 142, 103970	2.8	2
667	Behavior of Ultrahigh-Performance Concrete Bridge Decks with New Y-Shape FRP Stay-in-Place Formworks. <i>Journal of Composites for Construction</i> , 2022 , 26,	3.3	1
666	Challenges of Effective Blast Protection of Buildings. <i>Springer Tracts in Civil Engineering</i> , 2022 , 93-117	0.4	
665	Damage evaluation of a welded beam-column joint with surface imperfections subjected to impact loads. <i>Engineering Structures</i> , 2022 , 261, 114276	4.7	1
664	Lifetime seismic performance assessment on post-tensioned self-centering concrete frames considering long-term prestress loss. <i>Engineering Structures</i> , 2022 , 262, 114321	4.7	
663	Performance of sandwich cladding with modular truncated square pyramid foldcore under projectile impact. <i>International Journal of Impact Engineering</i> , 2022 , 166, 104258	4	0
662	Effect of internal explosion on tunnel secondary and adjacent structures: A review. <i>Tunnelling and Underground Space Technology</i> , 2022 , 126, 104536	5.7	0
661	Static mechanical properties and stress wave attenuation of metaconcrete subjected to impulsive loading. <i>Engineering Structures</i> , 2022 , 263, 114382	4.7	0
660	Structural damage detection via phase space based manifold learning under changing environmental and operational conditions. <i>Engineering Structures</i> , 2022 , 263, 114420	4.7	0
659	Structural performance evaluation of UHPC/conventional concrete cast on new Y-shape FRP stay-in-place formwork for concrete bridge decks. <i>Structures</i> , 2022 , 41, 1077-1091	3.4	0
658	Influence of various impact scenarios on the dynamic performance of concrete beam-column joints. <i>International Journal of Impact Engineering</i> , 2022 , 167, 104284	4	0
657	Output-only complete mode shape identification of bridges using a limited number of sensors. <i>Mechanical Systems and Signal Processing</i> , 2022 , 178, 109246	7.8	0

656	Calculation of BLEVE energy and overpressures inside a tunnel using analytical and CFD methods. <i>Tunnelling and Underground Space Technology</i> , 2021 , 120, 104263	5.7	1
655	Discussion on the suitability of dynamic constitutive models for prediction of geopolymer concrete structural responses under blast and impact loading. <i>International Journal of Impact Engineering</i> , 2021 , 104064	4	1
654	Dynamic tensile properties of clay brick at high strain rates. <i>Mechanics of Materials</i> , 2021 , 104157	3.3	2
653	Experimental methods for inter-module joints in modular building structures DA state-of-the-art review. <i>Journal of Building Engineering</i> , 2021 , 46, 103792	5.2	2
652	Blast Resistant Enhancement of Meta-panels Using Multiple Types of Resonators. <i>International Journal of Mechanical Sciences</i> , 2021 , 215, 106965	5.5	3
651	Experimental investigation on dynamic properties of ultra-high-performance rubberized concrete (UHPRuC). <i>Construction and Building Materials</i> , 2021 , 307, 125104	6.7	4
650	Damping properties and dynamic responses of metaconcrete beam structures subjected to transverse loading. <i>Construction and Building Materials</i> , 2021 , 311, 125273	6.7	3
649	Numerical investigation of flexural behaviours of precast segmental concrete beams internally post-tensioned with unbonded FRP tendons under monotonic loading. <i>Engineering Structures</i> , 2021 , 249, 113341	4.7	5
648	Impact Responses of Precast Hollow Reinforced Concrete Beams with Prestress Tendons using High-Fidelity Physics-Based Simulations. <i>Engineering Failure Analysis</i> , 2021 , 105850	3.2	2
647	Using Deep Learning Technique for Recovering the Lost Measurement Data. <i>Lecture Notes in Civil Engineering</i> , 2021 , 229-237	0.3	0
646	Using Novel Time Frequency Analysis Method for Time-Varying System Identification. <i>Lecture Notes in Civil Engineering</i> , 2021 , 239-246	0.3	
645	Enhanced vibration decomposition method based on multisynchrosqueezing transform and analytical mode decomposition. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2730	4.5	3
644	Impact response of fibre reinforced geopolymer concrete beams with BFRP bars and stirrups. <i>Engineering Structures</i> , 2021 , 231, 111785	4.7	14
643	Dynamic compressive properties of novel lightweight ambient-cured EPS geopolymer composite. <i>Construction and Building Materials</i> , 2021 , 273, 122044	6.7	7
642	Experimental and numerical studies on square steel-reinforced concrete-filled steel tubular (SRCFST) members subjected to lateral impact. <i>Thin-Walled Structures</i> , 2021 , 160, 107409	4.7	3
641	Shear behaviour of ambient cured geopolymer concrete beams reinforced with BFRP bars under static and impact loads. <i>Engineering Structures</i> , 2021 , 231, 111730	4.7	8
640	Improved analysis method for structural members subjected to blast loads considering strain hardening and softening effects. <i>Advances in Structural Engineering</i> , 2021 , 24, 2622-2636	1.9	2
639	Near real-time bolt-loosening detection using mask and region-based convolutional neural network. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2741	4.5	7

638	Structural damage identification with limited modal measurements and ultra-sparse Bayesian regression. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2729	4.5	5
637	Spall Behaviors of Metaconcrete: 3D Meso-Scale Modelling. <i>International Journal of Structural Stability and Dynamics</i> , 2021 , 21, 2150121	1.9	3
636	Free water effect on the dynamic compressive properties of mortar. <i>Cement and Concrete Composites</i> , 2021 , 118, 103933	8.6	6
635	Data driven structural dynamic response reconstruction using segment based generative adversarial networks. <i>Engineering Structures</i> , 2021 , 234, 111970	4.7	14
634	Prediction of BLEVE blast loading using CFD and artificial neural network. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 711-723	5.5	8
633	Numerical investigation of the failure mechanism of cubic concrete specimens in SHPB tests. <i>Defence Technology</i> , 2021 ,	3	2
632	Nonlinear structural damage detection using output-only Volterra series model. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2802	4.5	3
631	Experimental and numerical study on concrete beams reinforced with Basalt FRP bars under static and impact loads. <i>Composite Structures</i> , 2021 , 263, 113648	5.3	13
630	Lateral behaviour of modular steel building with simplified models of new inter-module connections. <i>Engineering Structures</i> , 2021 , 236, 112103	4.7	8
629	Improving identifiability of structural damage using higher order responses and phase space technique. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2808	4.5	3
628	A state-of-the-art review of road tunnel subjected to blast loads. <i>Tunnelling and Underground Space Technology</i> , 2021 , 112, 103911	5.7	9
627	Model for analytical investigation on meta-lattice truss for low-frequency spatial wave manipulation. <i>Wave Motion</i> , 2021 , 103, 102735	1.8	2
626	Physical and Mechanical Properties of New Lightweight Ambient-Cured EPS Geopolymer Composites. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04021094	3	2
625	Numerical analysis of dynamic responses of laminated glass window subjected to gas explosions. <i>Engineering Structures</i> , 2021 , 238, 112243	4.7	0
624	Energy absorption characteristics of bio-inspired hierarchical multi-cell square tubes under axial crushing. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106464	5.5	36
623	Origami metamaterial with two-stage programmable compressive strength under quasi-static loading. <i>International Journal of Mechanical Sciences</i> , 2021 , 189, 105987	5.5	14
622	Numerical simulation of medium to large scale BLEVE and the prediction of BLEVE blast wave in obstructed environment. <i>Chemical Engineering Research and Design</i> , 2021 , 145, 94-109	5.5	8
621	A novel rotational inertia damper for amplifying fluid resistance: Experiment and mechanical model. <i>Mechanical Systems and Signal Processing</i> , 2021 , 149, 107313	7.8	13

620	Analytical and numerical studies on impact force profile of RC beam under drop weight impact. <i>International Journal of Impact Engineering</i> , 2021 , 147, 103743	4	21
619	Flexural behaviour of ambient cured geopolymer concrete beams reinforced with BFRP bars under static and impact loads. <i>Composite Structures</i> , 2021 , 261, 113282	5.3	10
618	In-plane crushing behaviors of hexagonal honeycombs with different Poisson's ratio induced by topological diversity. <i>Thin-Walled Structures</i> , 2021 , 159, 107223	4.7	17
617	Failure mechanism of geopolymer composite lightweight sandwich panel under flexural and edgewise compressive loads. <i>Construction and Building Materials</i> , 2021 , 270, 121496	6.7	1
616	Experimental and numerical investigation on the compressive properties of interlocking blocks. <i>Engineering Structures</i> , 2021 , 228, 111561	4.7	9
615	Crushing performances of Kirigami modified honeycomb structure in three axial directions. <i>Thin-Walled Structures</i> , 2021 , 160, 107365	4.7	8
614	Performance of geopolymer concrete in monolithic and non-corrosive dry joints using CFRP bolts under cyclic loading. <i>Composite Structures</i> , 2021 , 258, 113394	5.3	7
613	Numerical analysis of axial load effects on RC bridge columns under blast loading. <i>Advances in Structural Engineering</i> , 2021 , 24, 1399-1414	1.9	4
612	Development and application of random forest technique for element level structural damage quantification. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2678	4.5	4
611	Influences of ground motion parameters and structural damping on the optimum design of inerter-based tuned mass dampers. <i>Engineering Structures</i> , 2021 , 227, 111422	4.7	8
610	New interlocking inter-module connection for modular steel buildings: Simplified structural behaviours. <i>Engineering Structures</i> , 2021 , 227, 111409	4.7	11
609	Investigation on the lateral impact responses of circular concrete-filled double-tube (CFDT) members. <i>Composite Structures</i> , 2021 , 255, 112993	5.3	2
608	The mechanical performance of concrete shear key for prefabricated structures. <i>Advances in Structural Engineering</i> , 2021 , 24, 291-306	1.9	4
607	Review on impact response of reinforced concrete beams: Contemporary understanding and unsolved problems. <i>Advances in Structural Engineering</i> , 2021 , 24, 2282-2303	1.9	3
606	Pullout and flexural performance of silane groups and hydrophilic groups grafted polypropylene fibre reinforced UHPC. <i>Construction and Building Materials</i> , 2021 , 277, 122335	6.7	6
605	Stress Wave Mitigation Properties of Dual-meta Panels against Blast Loads. <i>International Journal of Impact Engineering</i> , 2021 , 154, 103877	4	8
604	Dynamic tensile behaviors of welded steel joint material. <i>Journal of Constructional Steel Research</i> , 2021 , 183, 106700	3.8	1
603	Development of double-helix macro BFRP fibers for concrete reinforcement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021 , 54, 1	3.4	1

602	Experimental and analytical study of flexural behaviour of BFRP sheets strengthened RC beams with new epoxy anchors. <i>Engineering Structures</i> , 2021 , 241, 112441	4.7	0
601	Identification of time-varying nonlinear structural physical parameters by integrated WMA and UKF/UKF-UI. <i>Nonlinear Dynamics</i> , 2021 , 106, 681-706	5	4
600	Numerical study on bending response of precast segmental concrete beams externally prestressed with FRP tendons. <i>Engineering Structures</i> , 2021 , 241, 112423	4.7	7
599	Performance of monolithic and dry joints with GFRP bolts reinforced with different fibres and GFRP bars under impact loading. <i>Engineering Structures</i> , 2021 , 240, 112341	4.7	9
598	Inerter-based structural vibration control: A state-of-the-art review. <i>Engineering Structures</i> , 2021 , 243, 112655	4.7	3 ¹
597	Probabilistic model updating via variational Bayesian inference and adaptive Gaussian process modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 383, 113915	5.7	10
596	Dynamic compressive properties of high volume fly ash (HVFA) concrete with nano silica. <i>Construction and Building Materials</i> , 2021 , 301, 124352	6.7	6
595	Sensitivity of lateral impact response of RC columns reinforced with GFRP bars and stirrups to concrete strength and reinforcement ratio. <i>Engineering Structures</i> , 2021 , 242, 112512	4.7	5
594	Passive vibration control of engineering structures based on an innovative column-in-column (CIC) concept. <i>Engineering Structures</i> , 2021 , 242, 112599	4.7	4
593	Impact response of a novel sandwich structure with Kirigami modified corrugated core. <i>International Journal of Impact Engineering</i> , 2021 , 156, 103953	4	4
592	Densely connected convolutional networks for vibration based structural damage identification. <i>Engineering Structures</i> , 2021 , 245, 112871	4.7	4
591	Effect of high strain rate and confinement on the compressive properties of autoclaved aerated concrete. <i>International Journal of Impact Engineering</i> , 2021 , 156, 103943	4	3
590	Wave flume tests of a semi-submersible platform controlled by a novel rotational inertia damper. <i>Ocean Engineering</i> , 2021 , 238, 109718	3.9	0
589	Numerical evaluation of the impact performance of precast concrete segmental columns and strengthening techniques. <i>Engineering Structures</i> , 2021 , 244, 112725	4.7	3
588	An investigation of impact resistance capacity of polypropylene (PP) added plasterboard subjected to soft-body impact. <i>Composite Structures</i> , 2021 , 275, 114370	5.3	0
587	Reliability based design optimization of bridges considering bridge-vehicle interaction by Kriging surrogate model. <i>Engineering Structures</i> , 2021 , 246, 112989	4.7	2
586	On the accuracy, reliability and controllability of impact tests of RC beams. <i>International Journal of Impact Engineering</i> , 2021 , 157, 103979	4	9
585	Computer vision based target-free 3D vibration displacement measurement of structures. <i>Engineering Structures</i> , 2021 , 246, 113040	4.7	6

584	Superelastic CuAlBe wire-based sliding lead rubber bearings for seismic isolation of bridges in cold regions. <i>Engineering Structures</i> , 2021 , 247, 113102	4.7	3
583	Crashworthiness analysis of bio-inspired fractal tree-like multi-cell circular tubes under axial crushing. <i>Thin-Walled Structures</i> , 2021 , 169, 108315	4.7	17
582	Experimental and numerical studies of the shear resistance capacities of interlocking blocks. <i>Journal of Building Engineering</i> , 2021 , 44, 103230	5.2	0
581	Effect of engineered aggregate configuration and design on stress wave attenuation of metaconcrete rod structure. <i>International Journal of Solids and Structures</i> , 2021 , 232, 111182	3.1	5
580	Energy absorption of kirigami modified corrugated structure. <i>Thin-Walled Structures</i> , 2020 , 154, 106829	4.7	14
579	Stress Wave Propagation and Structural Response of Precast Concrete Segmental Columns under Simulated Blast Loads. <i>International Journal of Impact Engineering</i> , 2020 , 143, 103595	4	13
578	Dynamic response reconstruction for structural health monitoring using densely connected convolutional networks. <i>Structural Health Monitoring</i> , 2020 , 147592172091688	4.4	10
577	Deep residual network framework for structural health monitoring. <i>Structural Health Monitoring</i> , 2020 , 147592172091837	4.4	18
576	Heave motion mitigation of semi-submersible platform using inerter-based vibration isolation system (IVIS). <i>Engineering Structures</i> , 2020 , 219, 110833	4.7	12
575	The influence of design parameters of engineered aggregate in metaconcrete on bandgap region. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 139, 103929	5	16
574	Effect of Adding Methylcellulose on Mechanical and Vibration Properties of Geopolymer Paste and Hybrid Fiber-Reinforced Geopolymer Composite. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020166	4	4
573	New epoxy anchor for better bonding between FRP sheets and concrete. <i>Construction and Building Materials</i> , 2020 , 248, 118628	6.7	7
572	Mechanical behaviors of 3D re-entrant honeycomb polyamide structure under compression. <i>Materials Today Communications</i> , 2020 , 24, 101062	2.5	6
571	Dynamic response of steel-reinforced concrete-filled circular steel tubular members under lateral impact loads. <i>Thin-Walled Structures</i> , 2020 , 151, 106736	4.7	16
570	Performance of Bridges Isolated with Sliding-Lead Rubber Bearings Subjected to Near-Fault Earthquakes. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2050023	1.9	14
569	On the effectiveness of ventilation to mitigate the damage of spherical membrane vessels subjected to internal detonations. <i>International Journal of Protective Structures</i> , 2020 , 11, 319-339	1.5	1
568	Performance of concrete targets mixed with coarse aggregates against rigid projectile impact. <i>International Journal of Impact Engineering</i> , 2020 , 141, 103565	4	7
567	Seismic fragility assessment of the Daikai subway station in layered soil. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 132, 106044	3.5	20

566	Bridge condition monitoring using fixed moving principal component analysis. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2535	4.5	15
565	Steel fibre reinforced alkali-activated geopolymer concrete slabs subjected to natural gas explosion in buried utility tunnel. <i>Construction and Building Materials</i> , 2020 , 246, 118447	6.7	29
564	Influence of concrete strength on dynamic interfacial fracture behaviour between fibre reinforced polymer sheets and concrete. <i>Engineering Fracture Mechanics</i> , 2020 , 229, 106934	4.2	7
563	Interfacial debonding detection in externally bonded bfrp reinforced concrete using stress wave-based sensing approach. <i>Smart Materials and Structures</i> , 2020 , 29, 035039	3.4	12
562	Vibration signal denoising for structural health monitoring by residual convolutional neural networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 157, 107651	4.6	33
561	Post-blast performance and residual capacity of CFDST columns subjected to contact explosions. <i>Journal of Constructional Steel Research</i> , 2020 , 167, 105960	3.8	13
560	Reliability analysis and design optimization of nonlinear structures. <i>Reliability Engineering and System Safety</i> , 2020 , 198, 106860	6.3	29
559	Interfacial bond behaviour between hybrid carbon/basalt fibre composites and concrete under dynamic loading. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 99, 102569	3.4	11
558	Using inerter-based control device to mitigate heave and pitch motions of semi-submersible platform in the shallow sea. <i>Engineering Structures</i> , 2020 , 207, 110248	4.7	19
557	Structural damage identification by sparse deep belief network using uncertain and limited data. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2522	4.5	9
556	Numerical study of medium to large scale BLEVE for blast wave prediction. <i>Journal of Loss Prevention in the Process Industries</i> , 2020 , 65, 104107	3.5	14
555	Numerical study on the flexural performance of precast segmental concrete beams with unbonded internal steel tendons. <i>Construction and Building Materials</i> , 2020 , 248, 118362	6.7	11
554	The blast resistant performance of concrete-filled steel-tube segmental columns. <i>Journal of Constructional Steel Research</i> , 2020 , 168, 105997	3.8	7
553	Predicting the response of locally resonant concrete structure under blast load. <i>Construction and Building Materials</i> , 2020 , 252, 118920	6.7	12
552	Effect of inter-module connection stiffness on structural response of a modular steel building subjected to wind and earthquake load. <i>Engineering Structures</i> , 2020 , 213, 110628	4.7	26
551	Numerical study on impact resistance of metaconcrete. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2020 , 50, 024609	1.5	2
550	Numerical Study of Precast Concrete Beam Under Impact Loads. <i>Lecture Notes in Civil Engineering</i> , 2020 , 557-568	0.3	0
549	An Improved SSI Approach for Structural Modal Identification. <i>Lecture Notes in Civil Engineering</i> , 2020 , 887-897	0.3	

548	Structural Damage Detection with Uncertainties Using a Modified Tree Seeds Algorithm. <i>Mechanisms and Machine Science</i> , 2020 , 751-760	0.3	1
547	Finite element modelling of dynamic bonding behaviours between fibre reinforced polymer sheet and concrete. <i>Construction and Building Materials</i> , 2020 , 255, 118939	6.7	7
546	Development of a novel deformation-amplified shape memory alloy-friction damper for mitigating seismic responses of RC frame buildings. <i>Engineering Structures</i> , 2020 , 216, 110751	4.7	22
545	Non-probabilistic method to consider uncertainties in frequency response function for vibration-based damage detection using Artificial Neural Network. <i>Journal of Sound and Vibration</i> , 2020 , 467, 115069	3.9	33
544	A state-of-the-art review on the vibration mitigation of wind turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 121, 109710	16.2	46
543	Effects of steel fibres and prestress levels on behaviour of newly proposed exterior dry joints using SFRC and CFRP bolts. <i>Engineering Structures</i> , 2020 , 205, 110083	4.7	12
542	Experimental investigation on lightweight rubberized concrete beams strengthened with BFRP sheets subjected to impact loads. <i>Engineering Structures</i> , 2020 , 205, 110095	4.7	17
541	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. <i>Engineering Structures</i> , 2020 , 205, 110105	4.7	11
540	Textured pipe-in-pipe system: A compound passive technique for vortex-induced vibration control. <i>Applied Ocean Research</i> , 2020 , 95, 102044	3.4	4
539	Dynamic compressive properties of lightweight rubberized concrete. <i>Construction and Building Materials</i> , 2020 , 238, 117705	6.7	31
538	Dynamic compressive properties of lightweight rubberized geopolymer concrete. <i>Construction and Building Materials</i> , 2020 , 265, 120753	6.7	16
537	Experimental and numerical assessment of welded steel beam-column connections under impact loading. <i>Journal of Constructional Steel Research</i> , 2020 , 175, 106368	3.8	8
536	Dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. <i>International Journal of Solids and Structures</i> , 2020 , 202, 587-604	3.1	6
535	Non-probabilistic method to consider uncertainties in structural damage identification based on Hybrid Jaya and Tree Seeds Algorithm. <i>Engineering Structures</i> , 2020 , 220, 110925	4.7	11
534	Post-cracking behaviour of basalt and macro polypropylene hybrid fibre reinforced concrete with different compressive strengths. <i>Construction and Building Materials</i> , 2020 , 262, 120108	6.7	35
533	Factors influencing impact force profile and measurement accuracy in drop weight impact tests. <i>International Journal of Impact Engineering</i> , 2020 , 145, 103688	4	23
532	Defect detection in pipe structures using stochastic resonance of Duffing oscillator and ultrasonic guided waves. <i>International Journal of Pressure Vessels and Piping</i> , 2020 , 187, 104168	2.4	4
531	Fragility analyses of offshore wind turbines subjected to aerodynamic and sea wave loadings. <i>Renewable Energy</i> , 2020 , 160, 1269-1282	8.1	10

530	Behavior of Precast Segmental Concrete Beams Prestressed with External Steel and CFRP Tendons. <i>Journal of Composites for Construction</i> , 2020 , 24, 04020053	3.3	9
529	Damage Detection in Initially Nonlinear Structures Based on Variational Mode Decomposition. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2042009	1.9	5
528	Dynamic compressive properties of Kalgoorlie basalt rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 135, 104512	6	5
527	Ductile and dry exterior joints using CFRP bolts for moment-resisting frames. <i>Structures</i> , 2020 , 28, 668-684	3.4	12
526	High-resolution time-frequency representation for instantaneous frequency identification by adaptive Duffing oscillator. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2635	4.5	2
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524	Simplified structural behaviours of post-tensioned inter-module connection for modular buildings. <i>Journal of Constructional Steel Research</i> , 2020 , 175, 106347	3.8	8
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520	Bridge condition monitoring under moving loads using two sensor measurements. <i>Structural Health Monitoring</i> , 2020 , 19, 917-937	4.4	15
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518	Seismic Performance of Steel-Concrete Composite Rigid-Frame Bridge: Shake Table Test and Numerical Simulation. <i>Journal of Bridge Engineering</i> , 2020 , 25, 04020032	2.7	10
517	Experimental and Numerical Study of Basalt FRP Strip Strengthened RC Slabs under Impact Loads. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2040001	1.9	5
516	New interlocking inter-module connection for modular steel buildings: Experimental and numerical studies. <i>Engineering Structures</i> , 2019 , 198, 109465	4.7	34
515	Effect of aggregate size on the dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. <i>Construction and Building Materials</i> , 2019 , 227, 116584	6.7	13
514	Functionally graded truncated square pyramid folded structures with foam filler under dynamic crushing. <i>Composites Part B: Engineering</i> , 2019 , 177, 107410	10	8
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509	Strain rate effect on interfacial bond behaviour between BFRP sheets and steel fibre reinforced concrete. <i>Composites Part B: Engineering</i> , 2019 , 174, 107032	10	19
508	Time-varying system identification by enhanced Empirical Wavelet Transform based on Synchroextracting Transform. <i>Engineering Structures</i> , 2019 , 196, 109313	4.7	26
507	Numerical study of blast mitigation performance of folded structure with foam infill. <i>Structures</i> , 2019 , 20, 581-593	3.4	11
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490	Bond behaviour between hybrid fiber reinforced polymer sheets and concrete. <i>Construction and Building Materials</i> , 2019 , 210, 93-110	6.7	27
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481	The response of precast concrete segmental columns subjected to near base impact. <i>International Journal of Protective Structures</i> , 2019 , 10, 229-250	1.5	3
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466	Mitigation of tower and out-of-plane blade vibrations of offshore monopile wind turbines by using multiple tuned mass dampers. <i>Structure and Infrastructure Engineering</i> , 2019 , 15, 269-284	2.9	17
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451	Time-varying system identification using variational mode decomposition. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2175	4.5	44
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449	Fatigue reliability evaluation of deck-to-rib welded joints in OSD considering stochastic traffic load and welding residual stress. <i>International Journal of Fatigue</i> , 2018 , 111, 151-160	5	42
448	Crushing behaviours of folded kirigami structure with square dome shape. <i>International Journal of Impact Engineering</i> , 2018 , 115, 94-105	4	17
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442	Effectiveness of Using RFHDS Connected PIP System for Subsea Pipeline Vibration Control. <i>International Journal of Structural Stability and Dynamics</i> , 2018 , 18, 1840005	1.9	4
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437	Seismic fragility analyses of sea-crossing cable-stayed bridges subjected to multi-support ground motions on offshore sites. <i>Engineering Structures</i> , 2018 , 165, 441-456	4.7	61
436	Experimental study on relative displacement responses of bridge frames subjected to spatially varying ground motion and its mitigation using superelastic SMA restrainers. <i>Soil Dynamics and Earthquake Engineering</i> , 2018 , 109, 76-88	3.5	17
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432	Mesoscale modelling of concrete reinforced with spiral steel fibres under dynamic splitting tension. <i>Advances in Structural Engineering</i> , 2018 , 21, 1197-1210	1.9	8
431	Mechanical properties of ambient cured high strength hybrid steel and synthetic fibers reinforced geopolymer composites. <i>Cement and Concrete Composites</i> , 2018 , 85, 133-152	8.6	59
430	Sensitivity of impact behaviour of RC beams to contact stiffness. <i>International Journal of Impact Engineering</i> , 2018 , 112, 155-164	4	67
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428	Bridge Condition Assessment Under Moving Loads Using Multi-sensor Measurements and Vibration Phase Technology. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 73-84	0.4	2
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426	Improved decentralized structural identification with output-only measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 122, 597-610	4.6	12
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411	Study of concrete damage mechanism under hydrostatic pressure by numerical simulations. <i>Construction and Building Materials</i> , 2018 , 160, 440-449	6.7	23
410	Numerical investigation of the behavior of precast concrete segmental columns subjected to vehicle collision. <i>Engineering Structures</i> , 2018 , 156, 375-393	4.7	55
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405	Numerical and experimental study of steel wire mesh and basalt fibre mesh strengthened structural insulated panel against projectile impact. <i>Advances in Structural Engineering</i> , 2018 , 21, 1183-1196	1.9	9

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391	Impact response and energy absorption of single phase syntactic foam. <i>Composites Part B: Engineering</i> , 2018 , 150, 226-233	10	16
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382	Experimental and three-dimensional finite element method studies on pounding responses of bridge structures subjected to spatially varying ground motions. <i>Advances in Structural Engineering</i> , 2017 , 20, 105-124	1.9	14
381	Devices for protecting bridge superstructure from pounding and unseating damages: an overview. <i>Structure and Infrastructure Engineering</i> , 2017 , 13, 313-330	2.9	37
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379	A study of concrete slabs with steel wire mesh reinforcement under close-in explosive loads. <i>International Journal of Impact Engineering</i> , 2017 , 110, 242-254	4	32
378	Stochastic seismic response analysis of buried onshore and offshore pipelines. <i>Soil Dynamics and Earthquake Engineering</i> , 2017 , 94, 60-65	3.5	16
377	Pull-out behaviour of spiral-shaped steel fibres from normal-strength concrete matrix. <i>Construction and Building Materials</i> , 2017 , 139, 34-44	6.7	19
376	Experimental and numerical study of unreinforced clay brick masonry walls subjected to vented gas explosions. <i>International Journal of Impact Engineering</i> , 2017 , 104, 107-126	4	35
375	Study of autoclaved aerated concrete masonry walls under vented gas explosions. <i>Engineering Structures</i> , 2017 , 141, 444-460	4.7	27
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372	Control of wave-induced vibrations on floating production systems. <i>Ocean Engineering</i> , 2017 , 141, 35-52	3.9	8
371	Optimal blast wall layout design to mitigate gas dispersion and explosion on a cylindrical FLNG platform. <i>Journal of Loss Prevention in the Process Industries</i> , 2017 , 49, 481-492	3.5	15
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369	Compressive behaviour of tungsten fibre reinforced Zr-based metallic glass at different strain rates and temperatures. <i>International Journal of Impact Engineering</i> , 2017 , 106, 110-119	4	9

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364	Numerical study of precast segmental column under blast loads. <i>Engineering Structures</i> , 2017 , 134, 125-137	4.7	53
363	Plastic hinges and inertia forces in RC beams under impact loads. <i>International Journal of Impact Engineering</i> , 2017 , 103, 1-11	4	63
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17	Multiple excitation effects on response of symmetric buildings. <i>Engineering Structures</i> , 1996 , 18, 732-740	4.7	18
16	CHARACTERISTICS OF TORSIONAL GROUND MOTIONS. <i>Earthquake Engineering and Structural Dynamics</i> , 1996 , 25, 599-610	4	13
15	Seismic Response of Asymmetric Structures to Multiple Ground Motions. <i>Journal of Structural Engineering</i> , 1995 , 121, 1557-1564	3	23
14	Ground-Motion Spatial Variation Effects on Circular Arch Responses. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 2326-2341	2.4	16
13	. <i>IEEE Transactions on Computers</i> , 1993 , 42, 1510-1516	2.5	12
12	Arch responses to correlated multiple excitations. <i>Earthquake Engineering and Structural Dynamics</i> , 1993 , 22, 389-404	4	35
11	Response of multiply supported rigid plate to spatially correlated seismic excitations. <i>Earthquake Engineering and Structural Dynamics</i> , 1991 , 20, 821-838	4	25
10	Ground motion modeling for multiple-input structural analysis. <i>Structural Safety</i> , 1991 , 10, 79-93	4.9	40
9	Multiple-station ground motion processing and simulation based on smart-1 array data. <i>Nuclear Engineering and Design</i> , 1989 , 111, 293-310	1.8	216

8	Damage detection in bridges under moving loads based on subspace projection residuals. <i>Advances in Structural Engineering</i> ,136943322110561	1.9	0
7	Performance of RC Beams with or without FRP Strengthening Subjected to Impact Loading		2
6	Effects of Axial Air Deck on Blast-Induced Ground Vibration. <i>Rock Mechanics and Rock Engineering</i> ,1	5.7	5
5	Using a single sensor for bridge condition monitoring via moving embedded principal component analysis. <i>Structural Health Monitoring</i> ,147592172098051	4.4	4
4	Effect of rubber aggregate size on static and dynamic compressive properties of rubberized concrete. <i>Structural Concrete</i> ,	2.6	4
3	Review of piezoelectric impedance based structural health monitoring: Physics-based and data-driven methods. <i>Advances in Structural Engineering</i> ,136943322110384	1.9	1
2	Structural damage detection by integrating robust PCA and classical PCA for handling environmental variations and imperfect measurement data. <i>Advances in Structural Engineering</i> ,136943322210790	1.9	0
1	Effect of enhanced coating layer on the bandgap characteristics and response of metaconcrete. <i>Mechanics of Advanced Materials and Structures</i> ,1-14	1.8	0