

# Hong Hao

## List of Publications by Year in descending order

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706  
papers

27,488  
citations

5574

82  
h-index

20358

116  
g-index

718  
all docs

718  
docs citations

718  
times ranked

9259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of compressive behaviour of concrete-like materials at high strain rate. International Journal of Solids and Structures, 2008, 45, 4648-4661.	2.7	346
2	Numerical derivation of pressure-impulse diagrams for prediction of RC column damage to blast loads. International Journal of Impact Engineering, 2008, 35, 1213-1227.	5.0	342
3	Long term vibration monitoring of an RC slab: Temperature and humidity effect. Engineering Structures, 2006, 28, 441-452.	5.3	274
4	Multiple-station ground motion processing and simulation based on smart-1 array data. Nuclear Engineering and Design, 1989, 111, 293-310.	1.7	272
5	Structural damage identification based on autoencoder neural networks and deep learning. Engineering Structures, 2018, 172, 13-28.	5.3	252
6	Civil structure condition assessment by FE model updating. Finite Elements in Analysis and Design, 2001, 37, 761-775.	3.2	242
7	Structural response of modular buildings – An overview. Journal of Building Engineering, 2018, 16, 45-56.	3.4	226
8	Vibration-based Damage Detection of Structures by Genetic Algorithm. Journal of Computing in Civil Engineering, 2002, 16, 222-229.	4.7	218
9	Numerical study of concrete spall damage to blast loads. International Journal of Impact Engineering, 2014, 68, 41-55.	5.0	212
10	Dynamic compressive behaviour of spiral steel fibre reinforced concrete in split Hopkinson pressure bar tests. Construction and Building Materials, 2013, 48, 521-532.	7.2	200
11	Review of the current practices in blast-resistant analysis and design of concrete structures. Advances in Structural Engineering, 2016, 19, 1193-1223.	2.4	195
12	Experimental confirmation of some factors influencing dynamic concrete compressive strengths in high-speed impact tests. Cement and Concrete Research, 2013, 52, 63-70.	11.0	180
13	Influence of the concrete DIF model on the numerical predictions of RC wall responses to blast loadings. Engineering Structures, 2014, 73, 24-38.	5.3	179
14	Mesoscale modelling of concrete tensile failure mechanism at high strain rates. Computers and Structures, 2008, 86, 2013-2026.	4.4	178
15	Numerical prediction of concrete slab response to blast loading. International Journal of Impact Engineering, 2008, 35, 1186-1200.	5.0	177
16	Modeling of simultaneous ground shock and airblast pressure on nearby structures from surface explosions. International Journal of Impact Engineering, 2005, 31, 699-717.	5.0	175
17	Static and dynamic mechanical properties of expanded polystyrene. Materials & Design, 2015, 69, 170-180.	5.1	173
18	An experimental and numerical study of reinforced ultra-high performance concrete slabs under blast loads. Materials and Design, 2015, 82, 64-76.	7.0	171

#	ARTICLE	IF	CITATIONS
19	Using multiple tuned mass dampers to control offshore wind turbine vibrations under multiple hazards. <i>Engineering Structures</i> , 2017, 141, 303-315.	5.3	166
20	Synthesis of high strength ambient cured geopolymer composite by using low calcium fly ash. <i>Construction and Building Materials</i> , 2016, 125, 809-820.	7.2	162
21	A new method for progressive collapse analysis of RC frames under blast loading. <i>Engineering Structures</i> , 2010, 32, 1691-1703.	5.3	160
22	Modelling and simulation of spatially varying earthquake ground motions at sites with varying conditions. <i>Probabilistic Engineering Mechanics</i> , 2012, 29, 92-104.	2.7	157
23	Statistical damage identification of structures with frequency changes. <i>Journal of Sound and Vibration</i> , 2003, 263, 853-870.	3.9	156
24	Laboratory tests and numerical simulations of barge impact on circular reinforced concrete piers. <i>Engineering Structures</i> , 2013, 46, 593-605.	5.3	145
25	Nonlinear finite element analysis of barge collision with a single bridge pier. <i>Engineering Structures</i> , 2012, 41, 63-76.	5.3	142
26	Damage detection using artificial neural network with consideration of uncertainties. <i>Engineering Structures</i> , 2007, 29, 2806-2815.	5.3	139
27	Inerter-based structural vibration control: A state-of-the-art review. <i>Engineering Structures</i> , 2021, 243, 112655.	5.3	139
28	Experimental study of dynamic compressive properties of fibre reinforced concrete material with different fibres. <i>Materials &amp; Design</i> , 2012, 33, 42-55.	5.1	137
29	Review of bolted inter-module connections in modular steel buildings. <i>Journal of Building Engineering</i> , 2019, 23, 207-219.	3.4	136
30	Seismic response of multi-span simply supported bridges to a spatially varying earthquake ground motion. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1325-1345.	4.4	133
31	Damage identification of structures with uncertain frequency and mode shape data. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1053-1066.	4.4	130
32	Investigation of ultra-high performance concrete slab and normal strength concrete slab under contact explosion. <i>Engineering Structures</i> , 2015, 102, 395-408.	5.3	130
33	Impact Behavior of FRP-Strengthened RC Beams without Stirrups. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	130
34	Numerical simulation of a cable-stayed bridge response to blast loads, Part I: Model development and response calculations. <i>Engineering Structures</i> , 2010, 32, 3180-3192.	5.3	129
35	Dynamic responses and failure modes of bridge columns under vehicle collision. <i>Engineering Structures</i> , 2018, 156, 243-259.	5.3	129
36	Modeling of wave propagation induced by underground explosion. <i>Computers and Geotechnics</i> , 1998, 22, 283-303.	4.7	125

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37	Numerical Analysis of Lateral Inertial Confinement Effects on Impact Test of Concrete Compressive Material Properties. <i>International Journal of Protective Structures</i> , 2010, 1, 145-167.	2.3	124
38	Numerical analysis of prestressed reinforced concrete beam subjected to blast loading. <i>Materials &amp; Design</i> , 2015, 65, 662-674.	5.1	123
39	Behaviour of ultra high performance fibre reinforced concrete columns subjected to blast loading. <i>Engineering Structures</i> , 2016, 118, 97-107.	5.3	122
40	Reliability analysis of direct shear and flexural failure modes of RC slabs under explosive loading. <i>Engineering Structures</i> , 2002, 24, 189-198.	5.3	119
41	Effect of the plastic hinge and boundary conditions on the impact behavior of reinforced concrete beams. <i>International Journal of Impact Engineering</i> , 2017, 102, 74-85.	5.0	119
42	Energy absorption characteristics of bio-inspired hierarchical multi-cell square tubes under axial crushing. <i>International Journal of Mechanical Sciences</i> , 2021, 201, 106464.	6.7	119
43	Reliability analysis of reinforced concrete slabs under explosive loading. <i>Structural Safety</i> , 2001, 23, 157-178.	5.3	118
44	Numerical Evaluation of the Influence of Aggregates on Concrete Compressive Strength at High Strain Rate. <i>International Journal of Protective Structures</i> , 2011, 2, 177-206.	2.3	118
45	Review of Concrete Structures Strengthened with FRP Against Impact Loading. <i>Structures</i> , 2016, 7, 59-70.	3.6	118
46	Parametric study of laminated glass window response to blast loads. <i>Engineering Structures</i> , 2013, 56, 1707-1717.	5.3	114
47	Development of P-I diagrams for FRP strengthened RC columns. <i>International Journal of Impact Engineering</i> , 2011, 38, 290-304.	5.0	113
48	Laboratory test and numerical simulation of laminated glass window vulnerability to debris impact. <i>International Journal of Impact Engineering</i> , 2013, 55, 49-62.	5.0	112
49	Experimental investigation of ultra-high performance concrete slabs under contact explosions. <i>International Journal of Impact Engineering</i> , 2016, 93, 62-75.	5.0	112
50	Experimental study of flexural behaviour of RC beams strengthened by longitudinal and U-shaped basalt FRP sheet. <i>Composites Part B: Engineering</i> , 2018, 134, 114-126.	12.0	112
51	Micro-seismic event detection and location in underground mines by using Convolutional Neural Networks (CNN) and deep learning. <i>Tunnelling and Underground Space Technology</i> , 2018, 81, 265-276.	6.2	112
52	Specimen shape and size effects on the concrete compressive strength under static and dynamic tests. <i>Construction and Building Materials</i> , 2018, 161, 84-93.	7.2	110
53	A state-of-the-art review on the vibration mitigation of wind turbines. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 121, 109710.	16.4	110
54	Numerical analysis of concrete material properties at high strain rate under direct tension. <i>International Journal of Impact Engineering</i> , 2012, 39, 51-62.	5.0	109

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55	Sensitivity of impact behaviour of RC beams to contact stiffness. <i>International Journal of Impact Engineering</i> , 2018, 112, 155-164.	5.0	106
56	Prediction of airblast loads on structures behind a protective barrier. <i>International Journal of Impact Engineering</i> , 2008, 35, 363-375.	5.0	105
57	Dynamic analyses of operating offshore wind turbines including soil-structure interaction. <i>Engineering Structures</i> , 2018, 157, 42-62.	5.3	105
58	A full coupled numerical analysis approach for buried structures subjected to subsurface blast. <i>Computers and Structures</i> , 2005, 83, 339-356.	4.4	104
59	The mechanical properties of Polyvinyl Butyral (PVB) at high strain rates. <i>Construction and Building Materials</i> , 2015, 93, 404-415.	7.2	104
60	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.	5.3	104
61	Plastic hinges and inertia forces in RC beams under impact loads. <i>International Journal of Impact Engineering</i> , 2017, 103, 1-11.	5.0	102
62	Impact force profile and failure classification of reinforced concrete bridge columns against vehicle impact. <i>Engineering Structures</i> , 2019, 183, 443-458.	5.3	102
63	Influence of end friction confinement on impact tests of concrete material at high strain rate. <i>International Journal of Impact Engineering</i> , 2013, 60, 82-106.	5.0	99
64	Numerical simulation of pounding damage to bridge structures under spatially varying ground motions. <i>Engineering Structures</i> , 2013, 46, 62-76.	5.3	99
65	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.	10.7	99
66	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.	7.2	97
67	Experimental Study of Dynamic Material Properties of Clay Brick and Mortar at Different Strain Rates. <i>Australian Journal of Structural Engineering</i> , 2008, 8, 117-132.	1.1	93
68	Numerical study on the seismic performance of precast segmental concrete columns under cyclic loading. <i>Engineering Structures</i> , 2017, 148, 373-386.	5.3	93
69	Guided wave propagation and spectral element method for debonding damage assessment in RC structures. <i>Journal of Sound and Vibration</i> , 2009, 324, 751-772.	3.9	92
70	Experimental investigation of the response of precast segmental columns subjected to impact loading. <i>International Journal of Impact Engineering</i> , 2016, 95, 105-124.	5.0	92
71	Performance of an innovative self-centering buckling restrained brace for mitigating seismic responses of bridge structures with double-column piers. <i>Engineering Structures</i> , 2017, 148, 47-62.	5.3	92
72	Laboratory Test on Dynamic Material Properties of Annealed Float Glass. <i>International Journal of Protective Structures</i> , 2012, 3, 407-430.	2.3	90

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73	Discussion on the suitability of concrete constitutive models for high-rate response predictions of RC structures. <i>International Journal of Impact Engineering</i> , 2017, 106, 202-216.	5.0	90
74	Numerical simulation of blast wave interaction with structure columns. <i>Shock Waves</i> , 2007, 17, 113-133.	1.9	89
75	Numerical simulation of a cable-stayed bridge response to blast loads, Part II: Damage prediction and FRP strengthening. <i>Engineering Structures</i> , 2010, 32, 3193-3205.	5.3	89
76	Numerical Investigation of the Dynamic Compressive Behaviour of Rock Materials at High Strain Rate. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 373-388.	5.4	89
77	Numerical investigation of the behavior of precast concrete segmental columns subjected to vehicle collision. <i>Engineering Structures</i> , 2018, 156, 375-393.	5.3	89
78	Static and dynamic material properties of CFRP/epoxy laminates. <i>Construction and Building Materials</i> , 2016, 114, 638-649.	7.2	88
79	Behavior of fiber-reinforced polymer-strengthened reinforced concrete beams under static and impact loads. <i>International Journal of Protective Structures</i> , 2017, 8, 3-24.	2.3	88
80	A three-phase soil model for simulating stress wave propagation due to blast loading. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2004, 28, 33-56.	3.3	86
81	Quasi-static and dynamic tensile properties of basalt fibre reinforced polymer. <i>Composites Part B: Engineering</i> , 2017, 125, 123-133.	12.0	86
82	Using pipe-in-pipe systems for subsea pipeline vibration control. <i>Engineering Structures</i> , 2016, 109, 75-84.	5.3	85
83	Characteristics of surface ground motions induced by blasts in jointed rock mass. <i>Soil Dynamics and Earthquake Engineering</i> , 2001, 21, 85-98.	3.8	84
84	Propagation characteristics of blast-induced shock waves in a jointed rock mass. <i>Soil Dynamics and Earthquake Engineering</i> , 1998, 17, 407-412.	3.8	83
85	Development and application of a deep learning-based sparse autoencoder framework for structural damage identification. <i>Structural Health Monitoring</i> , 2019, 18, 103-122.	7.5	83
86	Pounding Damage to Buildings and Bridges in the 22 February 2011 Christchurch Earthquake. <i>International Journal of Protective Structures</i> , 2012, 3, 123-139.	2.3	82
87	Numerical Analysis of Blast-Induced Stress Waves in a Rock Mass with Anisotropic Continuum Damage Models Part 1: Equivalent Material Property Approach. <i>Rock Mechanics and Rock Engineering</i> , 2002, 35, 79-94.	5.4	81
88	Dynamic material model of annealed soda-lime glass. <i>International Journal of Impact Engineering</i> , 2015, 77, 108-119.	5.0	81
89	Building vibration to traffic-induced ground motion. <i>Building and Environment</i> , 2001, 36, 321-336.	6.9	80
90	Study of SSI and non-uniform ground motion effect on pounding between bridge girders. <i>Soil Dynamics and Earthquake Engineering</i> , 2005, 25, 717-728.	3.8	80

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91	Mesoscale modelling of fibre reinforced concrete material under compressive impact loading. <i>Construction and Building Materials</i> , 2012, 26, 274-288.	7.2	80
92	Significance of SSI and nonuniform near-fault ground motions in bridge response I: Effect on response with conventional expansion joint. <i>Engineering Structures</i> , 2008, 30, 141-153.	5.3	79
93	Mesoscale modelling and analysis of damage and fragmentation of concrete slab under contact detonation. <i>International Journal of Impact Engineering</i> , 2009, 36, 1315-1326.	5.0	79
94	Influence of global stiffness and equivalent model on prediction of impact response of RC beams. <i>International Journal of Impact Engineering</i> , 2018, 113, 88-97.	5.0	79
95	Numerical study of precast segmental column under blast loads. <i>Engineering Structures</i> , 2017, 134, 125-137.	5.3	78
96	Lost data recovery for structural health monitoring based on convolutional neural networks. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2433.	4.0	77
97	Dynamic response of precast concrete beam with wet connection subjected to impact loads. <i>Engineering Structures</i> , 2019, 191, 247-263.	5.3	76
98	Influence of drop weight geometry and interlayer on impact behavior of RC beams. <i>International Journal of Impact Engineering</i> , 2019, 131, 222-237.	5.0	75
99	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.	5.0	75
100	A study of RC bridge columns under contact explosion. <i>International Journal of Impact Engineering</i> , 2017, 109, 378-390.	5.0	74
101	Numerical research on seismic response characteristics of shallow buried rectangular underground structure. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 116, 242-252.	3.8	74
102	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	74
103	Crashworthiness analysis of bio-inspired fractal tree-like multi-cell circular tubes under axial crushing. <i>Thin-Walled Structures</i> , 2021, 169, 108315.	5.3	74
104	Numerical derivation of homogenized dynamic masonry material properties with strain rate effects. <i>International Journal of Impact Engineering</i> , 2009, 36, 522-536.	5.0	73
105	The use of a non-probabilistic artificial neural network to consider uncertainties in vibration-based-damage detection. <i>Mechanical Systems and Signal Processing</i> , 2017, 83, 194-209.	8.0	73
106	Energy approach in performance-based seismic design of steel moment resisting frames for basic safety objective. <i>Structural Design of Tall Buildings</i> , 2001, 10, 193-217.	0.3	72
107	Time-varying system identification using a newly improved HHT algorithm. <i>Computers and Structures</i> , 2009, 87, 1611-1623.	4.4	72
108	Numerical study of low-speed impact response of sandwich panel with tube filled honeycomb core. <i>Composite Structures</i> , 2019, 220, 736-748.	5.8	72

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109	Dynamic compressive properties of lightweight rubberized concrete. <i>Construction and Building Materials</i> , 2020, 238, 117705.	7.2	72
110	Vibration signal denoising for structural health monitoring by residual convolutional neural networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 157, 107651.	5.0	72
111	Effects of random variations of soil properties on site amplification of seismic ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 551-564.	3.8	71
112	Experimental study of laminated glass window responses under impulsive and blast loading. <i>International Journal of Impact Engineering</i> , 2015, 78, 1-19.	5.0	71
113	Numerical prediction of blast-induced stress wave from large-scale underground explosion. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2004, 28, 93-109.	3.3	70
114	Mechanical properties and energy absorption of bio-inspired hierarchical circular honeycomb. <i>Composites Part B: Engineering</i> , 2022, 236, 109818.	12.0	70
115	Influence of ground motion spatial variation, site condition and SSI on the required separation distances of bridge structures to avoid seismic pounding. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1027-1043.	4.4	69
116	Experimental evaluation of quasi-static and dynamic compressive properties of ambient-cured high-strength plain and fiber reinforced geopolymer composites. <i>Construction and Building Materials</i> , 2018, 166, 482-499.	7.2	69
117	New interlocking inter-module connection for modular steel buildings: Experimental and numerical studies. <i>Engineering Structures</i> , 2019, 198, 109465.	5.3	69
118	Structural damage identification using improved Jaya algorithm based on sparse regularization and Bayesian inference. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 211-231.	8.0	68
119	Improved damage identification in bridge structures subject to moving loads: Numerical and experimental studies. <i>International Journal of Mechanical Sciences</i> , 2013, 74, 99-111.	6.7	67
120	Shear behaviour of post-tensioned inter-module connection for modular steel buildings. <i>Journal of Constructional Steel Research</i> , 2019, 162, 105707.	3.9	66
121	Dynamic compressive properties of lightweight rubberized geopolymer concrete. <i>Construction and Building Materials</i> , 2020, 265, 120753.	7.2	66
122	Damage detection in bridge structures under moving loads with phase trajectory change of multi-type vibration measurements. <i>Mechanical Systems and Signal Processing</i> , 2017, 87, 410-425.	8.0	65
123	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.	5.7	65
124	Dynamic Compressive Test of Gas-Containing Coal Using a Modified Split Hopkinson Pressure Bar System. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 815-829.	5.4	64
125	Mechanical properties and behaviour of high-strength plain and hybrid-fiber reinforced geopolymer composites under dynamic splitting tension. <i>Cement and Concrete Composites</i> , 2019, 104, 103343.	10.7	63
126	Laboratory Tests and Numerical Simulations of CFRP Strengthened RC Pier Subjected to Barge Impact Load. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1450037.	2.4	60



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127	Development and application of a relative displacement sensor for structural health monitoring of composite bridges. <i>Structural Control and Health Monitoring</i> , 2015, 22, 726-742.	4.0	60
128	Time-varying system identification using variational mode decomposition. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2175.	4.0	60
129	Seismic fragility assessment of the Daikai subway station in layered soil. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106044.	3.8	60
130	Dynamic response and damage analysis of masonry structures and masonry infilled RC frames to blast ground motion. <i>Engineering Structures</i> , 2005, 27, 323-333.	5.3	59
131	Integrated ARMA model method for damage detection of subsea pipeline system. <i>Engineering Structures</i> , 2013, 48, 176-192.	5.3	59
132	Predictions of Structural Response to Dynamic Loads of Different Loading Rates. <i>International Journal of Protective Structures</i> , 2015, 6, 585-605.	2.3	59
133	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.	5.0	59
134	Spatial ground motion effect on relative displacement of adjacent building structures. <i>Earthquake Engineering and Structural Dynamics</i> , 1999, 28, 333-349.	4.4	58
135	Numerical study of a new multi-arch double-layered blast-resistance door panel. <i>International Journal of Impact Engineering</i> , 2012, 43, 16-28.	5.0	58
136	Theoretical modeling and numerical simulation of seismic motions at seafloor. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 77, 220-225.	3.8	58
137	3D meso-scale modelling of concrete material in spall tests. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 1887-1899.	3.1	58
138	Prediction of the impact force on reinforced concrete beams from a drop weight. <i>Advances in Structural Engineering</i> , 2016, 19, 1710-1722.	2.4	58
139	Post-blast capacity of ultra-high performance concrete columns. <i>Engineering Structures</i> , 2017, 134, 289-302.	5.3	58
140	Experimental investigation of spatially varying effect of ground motions on bridge pounding. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 1959-1976.	4.4	57
141	Mitigation of heave response of semi-submersible platform (SSP) using tuned heave plate inerter (THPI). <i>Engineering Structures</i> , 2018, 177, 357-373.	5.3	57
142	Durability characteristics of lightweight rubberized concrete. <i>Construction and Building Materials</i> , 2019, 224, 584-599.	7.2	57
143	A parametric study of the required seating length for bridge decks during earthquake. <i>Earthquake Engineering and Structural Dynamics</i> , 1998, 27, 91-103.	4.4	56
144	Numerical study of characteristics of underground blast induced surface ground motion and their effect on above-ground structures. Part I. Ground motion characteristics. <i>Soil Dynamics and Earthquake Engineering</i> , 2005, 25, 27-38.	3.8	56

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145	Seismic performances of precast segmental column under bidirectional earthquake motions: Shake table test and numerical evaluation. <i>Engineering Structures</i> , 2019, 187, 314-328.	5.3	56
146	Effect of aggregate size on bond behaviour between basalt fibre reinforced polymer sheets and concrete. <i>Composites Part B: Engineering</i> , 2019, 158, 459-474.	12.0	56
147	Effect of hybrid fibers on shear behaviour of geopolymer concrete beams reinforced by basalt fiber reinforced polymer (BFRP) bars without stirrups. <i>Composite Structures</i> , 2020, 243, 112236.	5.8	56
148	Data driven structural dynamic response reconstruction using segment based generative adversarial networks. <i>Engineering Structures</i> , 2021, 234, 111970.	5.3	56
149	RC Column Failure Probabilities to Blast Loads. <i>International Journal of Protective Structures</i> , 2010, 1, 571-591.	2.3	55
150	Experimental and analytical investigation on flexural behaviour of ambient cured geopolymer concrete beams reinforced with steel fibers. <i>Engineering Structures</i> , 2019, 200, 109707.	5.3	55
151	Experimental and numerical study on the behaviour of CFDST columns subjected to close-in blast loading. <i>Engineering Structures</i> , 2019, 185, 203-220.	5.3	55
152	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.	7.2	55
153	Reliability analysis and design optimization of nonlinear structures. <i>Reliability Engineering and System Safety</i> , 2020, 198, 106860.	8.9	55
154	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.	5.3	55
155	Experimental investigations of dynamic compressive properties of roller compacted concrete (RCC). <i>Construction and Building Materials</i> , 2018, 168, 671-682.	7.2	54
156	Origami metamaterial with two-stage programmable compressive strength under quasi-static loading. <i>International Journal of Mechanical Sciences</i> , 2021, 189, 105987.	6.7	54
157	Transient dynamic fracture analysis using scaled boundary finite element method: a frequency-domain approach. <i>Engineering Fracture Mechanics</i> , 2007, 74, 669-687.	4.3	53
158	Numerical study of structural progressive collapse using substructure technique. <i>Engineering Structures</i> , 2013, 52, 101-113.	5.3	53
159	Experimental and numerical study of composite lightweight structural insulated panel with expanded polystyrene core against windborne debris impacts. <i>Materials &amp; Design</i> , 2014, 60, 409-423.	5.1	53
160	Enhancing fiber/matrix bonding in polypropylene fiber reinforced cementitious composites by microbially induced calcite precipitation pre-treatment. <i>Cement and Concrete Composites</i> , 2018, 88, 1-7.	10.7	53
161	Using polynomial chaos expansion for uncertainty and sensitivity analysis of bridge structures. <i>Mechanical Systems and Signal Processing</i> , 2019, 119, 293-311.	8.0	53
162	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.	5.3	53

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163	Significance of SSI and non-uniform near-fault ground motions in bridge response II: Effect on response with modular expansion joint. <i>Engineering Structures</i> , 2008, 30, 154-162.	5.3	52
164	Prediction of fragment size and ejection distance of masonry wall under blast load using homogenized masonry material properties. <i>International Journal of Impact Engineering</i> , 2009, 36, 808-820.	5.0	52
165	Experimental and numerical study of boundary and anchorage effect on laminated glass windows under blast loading. <i>Engineering Structures</i> , 2015, 90, 96-116.	5.3	52
166	Study of autoclaved aerated concrete masonry walls under vented gas explosions. <i>Engineering Structures</i> , 2017, 141, 444-460.	5.3	52
167	Experimental and numerical study on concrete beams reinforced with Basalt FRP bars under static and impact loads. <i>Composite Structures</i> , 2021, 263, 113648.	5.8	52
168	Ground motion modeling for multiple-input structural analysis. <i>Structural Safety</i> , 1991, 10, 79-93.	5.3	51
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