

Lizhi Sun

List of Publications by Year in descending order

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36
papers

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36
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale modeling of damage and fracture in freeze-thawed shotcrete. <i>International Journal of Damage Mechanics</i> , 2022, 31, 142-162.	4.2	4
2	A polishing method using self-excited oscillation abrasive flow for the inner surface of workpiece. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 4093-4108.	3.0	6
3	Multiscale numerical modeling of magneto-hyperelasticity of magnetorheological elastomeric composites. <i>Composites Science and Technology</i> , 2022, 224, 109443.	7.8	7
4	Microstructural analysis and multiscale modeling for stiffening and strengthening of consolidated earthen-site soils. <i>Journal of Cultural Heritage</i> , 2022, 55, 143-148.	3.3	3
5	Identification of Abnormal Vibration Signal of Subway Track Bed Based on Ultra-Weak FBG Sensing Array Combined with Unsupervised Learning Network. <i>Symmetry</i> , 2022, 14, 1100.	2.2	5
6	Growing Living Composites with Ordered Microstructures and Exceptional Mechanical Properties. <i>Advanced Materials</i> , 2021, 33, e2006946.	21.0	37
7	Characterization of microstructural damage evolution of freeze-thawed shotcrete by an integrative micro-CT and nanoindentation statistical approach. <i>Cement and Concrete Composites</i> , 2021, 117, 103909.	10.7	24
8	Living Composites: Growing Living Composites with Ordered Microstructures and Exceptional Mechanical Properties (<i>Adv. Mater.</i> 13/2021). <i>Advanced Materials</i> , 2021, 33, 2170101.	21.0	0
9	Simulation of ultrasonic propagation in porous cellular concrete materials. <i>Construction and Building Materials</i> , 2021, 285, 122852.	7.2	14
10	Elastography mapped by deep convolutional neural networks. <i>Science China Technological Sciences</i> , 2021, 64, 1567-1574.	4.0	3
11	Influence of construction-induced damage on the degradation of freeze-thawed lightweight cellular concrete. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 781-792.	2.9	2
12	Micromechanics-based simulation of anisotropic magneto-mechanical properties of magnetorheological elastomers with chained microstructures. <i>Smart Materials and Structures</i> , 2021, 30, 095001.	3.5	7
13	Dependence of chloride ion diffusivity on evolution of pore-structures in freeze-thawed shotcrete: Multiscale characterization and modeling. <i>Cement and Concrete Composites</i> , 2021, 123, 104222.	10.7	14
14	Effective segmentation of short fibers in glass fiber reinforced concrete's X-ray images using deep learning technology. <i>Materials and Design</i> , 2021, 210, 110024.	7.0	9
15	Micro-CT-based micromechanics and numerical homogenization for effective elastic property of ultra-high performance concrete. <i>International Journal of Damage Mechanics</i> , 2020, 29, 45-66.	4.2	27
16	Characteristics of Interfacial Shear Bonding Between Basalt Fiber and Mortar Matrix. <i>Materials</i> , 2020, 13, 5037.	2.9	3
17	Tensile Strength and Degradation of GFRP Bars under Combined Effects of Mechanical Load and Alkaline Solution. <i>Materials</i> , 2020, 13, 3533.	2.9	12
18	Efficient Photocatalytic Degradation of Pharmaceutical Pollutants Using Plasma-Treated $\text{g-C}_3\text{N}_4/\text{TiO}_2$. <i>Energy Technology</i> , 2020, 8, 2000095.	3.8	17

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19	Elastography mapped by untangling compressional and shear deformation. <i>Extreme Mechanics Letters</i> , 2020, 36, 100669.	4.1	1
20	Detectability of Bridge-Structural Damage Based on Fiber-Optic Sensing through Deep-Convolutional Neural Networks. <i>Journal of Bridge Engineering</i> , 2020, 25, .	2.9	26
21	A thermal-hydraulic-mechanical coupling model for freezing process simulation of cementitious materials with entrained air voids. <i>Construction and Building Materials</i> , 2020, 243, 118253.	7.2	6
22	Strengthening mechanism of lightweight cellular concrete filled with fly ash. <i>Construction and Building Materials</i> , 2020, 251, 118954.	7.2	37
23	Combining SDAE Network with Improved DTW Algorithm for Similarity Measure of Ultra-Weak FBG Vibration Responses in Underground Structures. <i>Sensors</i> , 2020, 20, 2179.	3.8	7
24	Microstructural crack segmentation of three-dimensional concrete images based on deep convolutional neural networks. <i>Construction and Building Materials</i> , 2020, 253, 119185.	7.2	45
25	A Novel Monitoring Approach for Train Tracking and Incursion Detection in Underground Structures Based on Ultra-Weak FBG Sensing Array. <i>Sensors</i> , 2019, 19, 2666.	3.8	33
26	Combinatorial targeting of cancer bone metastasis using mRNA engineered stem cells. <i>EBioMedicine</i> , 2019, 45, 39-57.	6.1	18
27	Sound Transmission-Based Elastography Imaging. <i>IEEE Access</i> , 2019, 7, 74383-74392.	4.2	2
28	Identification of Ground Intrusion in Underground Structures Based on Distributed Structural Vibration Detected by Ultra-Weak FBG Sensing Technology. <i>Sensors</i> , 2019, 19, 2160.	3.8	30
29	Dynamic magneto-viscoelastic model for magnetorheological nanocomposites with imperfect interface. <i>International Journal of Damage Mechanics</i> , 2019, 28, 1248-1260.	4.2	4
30	Effect of Filler Morphology on Viscoelastic Properties of PDMS-Based Magnetorheological Elastomers. <i>MRS Advances</i> , 2018, 3, 3695-3707.	0.9	1
31	Integrated investigation of an incremental launching method for the construction of long-span bridges. <i>Journal of Constructional Steel Research</i> , 2015, 112, 130-137.	3.9	7
32	Dynamic viscoelastic modeling of magnetorheological elastomers. <i>Acta Mechanica</i> , 2014, 225, 1347-1359.	2.1	16
33	Dictionary-learning-based reconstruction method for electron tomography. <i>Scanning</i> , 2014, 36, 377-383.	1.5	8
34	Large-scale first-principles determination of anisotropic mechanical properties of magnetostrictive Fe-Ga alloys. <i>Acta Materialia</i> , 2013, 61, 2919-2925.	7.9	40
35	Nonlinear elastic load-displacement relation for spherical indentation on rubberlike materials. <i>Journal of Materials Research</i> , 2010, 25, 2197-2202.	2.6	24
36	Magneto-elastic modeling of composites containing chain-structured magnetostrictive particles. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 975-1003.	4.8	66