

Lizhi Sun

List of Publications by Year in descending order

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36
papers

565
citations

623734

14
h-index

642732

23
g-index

36
all docs

36
docs citations

36
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Large-scale first-principles determination of anisotropic mechanical properties of magnetostrictive Fe ²⁺ Ga alloys. <i>Acta Materialia</i> , 2013, 61, 2919-2925.	7.9	40
4	Strengthening mechanism of lightweight cellular concrete filled with fly ash. <i>Construction and Building Materials</i> , 2020, 251, 118954.	7.2	37
5	Growing Living Composites with Ordered Microstructures and Exceptional Mechanical Properties. <i>Advanced Materials</i> , 2021, 33, e2006946.	21.0	37
6	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
7	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
8	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
9	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
10	Nonlinear elastic load–displacement relation for spherical indentation on rubberlike materials. <i>Journal of Materials Research</i> , 2010, 25, 2197-2202.	2.6	24
11	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
12	Combinatorial targeting of cancer bone metastasis using mRNA engineered stem cells. <i>EBioMedicine</i> , 2019, 45, 39-57.	6.1	18
13	Efficient Photocatalytic Degradation of Pharmaceutical Pollutants Using Plasma-Treated g-C ₃ N ₄ /TiO ₂ . <i>Energy Technology</i> , 2020, 8, 2000095.	3.8	17
14	Dynamic viscoelastic modeling of magnetorheological elastomers. <i>Acta Mechanica</i> , 2014, 225, 1347-1359.	2.1	16
15	Simulation of ultrasonic propagation in porous cellular concrete materials. <i>Construction and Building Materials</i> , 2021, 285, 122852.	7.2	14
16	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
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	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

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19	Dictionary-learnig-based reconstruction method for electron tomography. Scanning, 2014, 36, 377-383.	1.5	8
20	Integrated investigation of an incremental launching method for the construction of long-span bridges. Journal of Constructional Steel Research, 2015, 112, 130-137.	3.9	7
21	Combining SDAE Network with Improved DTW Algorithm for Similarity Measure of Ultra-Weak FBG Vibration Responses in Underground Structures. Sensors, 2020, 20, 2179.	3.8	7
22	Micromechanics-based simulation of anisotropic magneto-mechanical properties of magnetorheological elastomers with chained microstructures. Smart Materials and Structures, 2021, 30, 095001.	3.5	7
23	Multiscale numerical modeling of magneto-hyperelasticity of magnetorheological elastomeric composites. Composites Science and Technology, 2022, 224, 109443.	7.8	7
24	A thermal-hydraulic-mechanical coupling model for freezing process simulation of cementitious materials with entrained air voids. Construction and Building Materials, 2020, 243, 118253.	7.2	6
25	A polishing method using self-excited oscillation abrasive flow for the inner surface of workpiece. International Journal of Advanced Manufacturing Technology, 2022, 119, 4093-4108.	3.0	6
26	Identification of Abnormal Vibration Signal of Subway Track Bed Based on Ultra-Weak FBG Sensing Array Combined with Unsupervised Learning Network. Symmetry, 2022, 14, 1100.	2.2	5
27	Dynamic magneto-viscoelastic model for magnetorheological nanocomposites with imperfect interface. International Journal of Damage Mechanics, 2019, 28, 1248-1260.	4.2	4
28	Multiscale modeling of damage and fracture in freeze-thawed shotcrete. International Journal of Damage Mechanics, 2022, 31, 142-162.	4.2	4
29	Characteristics of Interfacial Shear Bonding Between Basalt Fiber and Mortar Matrix. Materials, 2020, 13, 5037.	2.9	3
30	Elastography mapped by deep convolutional neural networks. Science China Technological Sciences, 2021, 64, 1567-1574.	4.0	3
31	Microstructural analysis and multiscale modeling for stiffening and strengthening of consolidated earthen-site soils. Journal of Cultural Heritage, 2022, 55, 143-148.	3.3	3
32	Sound Transmission-Based Elastography Imaging. IEEE Access, 2019, 7, 74383-74392.	4.2	2
33	Influence of construction-induced damage on the degradation of freeze-thawed lightweight cellular concrete. Frontiers of Structural and Civil Engineering, 2021, 15, 781-792.	2.9	2
34	Effect of Filler Morphology on Viscoelastic Properties of PDMS-Based Magnetorheological Elastomers. MRS Advances, 2018, 3, 3695-3707.	0.9	1
35	Elastography mapped by untangling compressional and shear deformation. Extreme Mechanics Letters, 2020, 36, 100669.	4.1	1
36	Living Composites: Growing Living Composites with Ordered Microstructures and Exceptional Mechanical Properties (Adv. Mater. 13/2021). Advanced Materials, 2021, 33, 2170101.	21.0	0