

Shi Yan

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

280
citations

1163117

8
h-index

996975

15
g-index

19
all docs

19
docs citations

19
times ranked

260
citing authors

#	ARTICLE	IF	CITATIONS
1	Health monitoring of reinforced concrete shear walls using smart aggregates. <i>Smart Materials and Structures</i> , 2009, 18, 047001.	3.5	92
2	Development and Application of a Structural Health Monitoring System Based on Wireless Smart Aggregates. <i>Sensors</i> , 2017, 17, 1641.	3.8	65
3	Pipeline Damage Detection Using Piezoceramic Transducers: Numerical Analyses with Experimental Validation. <i>Sensors</i> , 2018, 18, 2106.	3.8	18
4	PZT-Based Ultrasonic Guided Wave Frequency Dispersion Characteristics of Tubular Structures for Different Interfacial Boundaries. <i>Sensors</i> , 2018, 18, 4111.	3.8	16
5	Numerical Simulation for Concrete Structure Health Monitoring Based on Smart Piezoelectric Transducer Array. <i>Advances in Science and Technology</i> , 0, , .	0.2	14
6	Experimental Research on Passive Control of Steel Frame Structure Using SMA Wires. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-12.	1.1	14
7	Development and Application of Structural Health Monitoring System Based on Piezoelectric Sensors. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 270927.	2.2	13
8	PZT-Based Detection of Compactness of Concrete in Concrete Filled Steel Tube Using Time Reversal Method. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	12
9	Pseudo-dynamic test and numerical simulation of high-strength concrete frame structure reinforced with high-strength rebars. <i>Earthquake Engineering and Engineering Vibration</i> , 2011, 10, 303-311.	2.3	9
10	Interfacial damage identification of steel and concrete composite beams based on piezoceramic wave method. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 70-80.	1.6	6
11	Connection looseness detection of steel grid structures using piezoceramic transducers. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771875923.	2.2	5
12	Statistical algorithm for damage detection of concrete beams based on piezoelectric smart aggregate. <i>Transactions of Tianjin University</i> , 2012, 18, 432-440.	6.4	4
13	Health monitoring strategy for smart piezoelectric concrete structures. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
14	Dynamic Mechanical Model of Surface-Bonded PZT Actuator: Theory and Experiment. <i>Applied Mechanics and Materials</i> , 0, 303-306, 1732-1735.	0.2	3
15	A Bridge Health Monitoring System Based on Wireless Smart Aggregates. <i>Applied Mechanics and Materials</i> , 2014, 578-579, 1138-1144.	0.2	2
16	MECHANICAL MODELING AND EXPERIMENTAL VALIDATION ON PIEZOCERAMIC BASED ON THE SURFACE-BONDED PZT SENSOR. <i>Surface Review and Letters</i> , 2019, 26, 1850209.	1.1	2
17	Research on damage passive monitoring of eccentric compression concrete columns based on piezoelectric sensors. , 2011, , .		1
18	The Theoretical Study of a Mechanical Model for Bonded PZT Actuator. <i>Applied Mechanics and Materials</i> , 2011, 94-96, 892-895.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Rebar Local Corrosion Monitoring of RC Structures Based on Fractal Characteristics of Piezoelectric Guided Waves. Lecture Notes in Civil Engineering, 2021, , 569-579.	0.4	0