Yangyang Zhang

List of Publications by Year
in descending order

13 papers	185 citations	1307594 7 h-index	1199594 12 g-index
13 all docs	13 docs citations	13 times ranked	238 citing authors

#	Article	IF	Citations
1	Mechanical Energy Harvesting From Road Pavements Under Vehicular Load Using Embedded Piezoelectric Elements. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	51
2	Generalized optimization method for energy conversion and storage efficiency of nanoscale flexible piezoelectric energy harvesters. Energy Conversion and Management, 2019, 182, 34-40.	9.2	29
3	Detection of Moving Load on Pavement Using Piezoelectric Sensors. Sensors, 2020, 20, 2366.	3.8	28
4	Identification of Static Loading Conditions Using Piezoelectric Sensor Arrays. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	2.2	19
5	Electromechanical Modeling of Energy Harvesting From the Motion of Left Ventricle in Closed Chest Environment. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	15
6	Piezoelectric energy harvesting from roadway deformation under various traffic flow conditions. Journal of Intelligent Material Systems and Structures, 2020, 31, 1751-1762.	2.5	12
7	Influences of Environmental Motion Modes on the Efficiency of Ultrathin Flexible Piezoelectric Energy Harvesters. Acta Mechanica Solida Sinica, 2019, 32, 611-620.	1.9	8
8	Theory of energy harvesting from heartbeat including the effects of pleural cavity and respiration. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170615.	2.1	7
9	Theoretical Modeling on Monitoring Left Ventricle Deformation Using Conformal Piezoelectric Sensors. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	4
10	Piezoelectric Energy Harvesting from Roadways under Open-Traffic Conditions: Analysis and Optimization with Scaling Law Method. Energies, 2022, 15, 3395.	3.1	4
11	Electromechanical modeling of eye fatigue detecting using flexible piezoelectric sensors. Science China Information Sciences, 2018, 61, 1.	4.3	3
12	Effects of Orientations on Efficiency of Energy Harvesting from Heart Motion Using Ultrathin Flexible Piezoelectric Devices. Advanced Theory and Simulations, 2019, 2, 1900050.	2.8	3
13	The axisymmetric love wave in elastic solids and its special properties. Archive of Applied Mechanics, 0, , 1.	2.2	2