

# Rencheng Zheng

## List of Publications by Year in descending order

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31  
papers

1,409  
citations

777949

13  
h-index

759306

22  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2241  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Electromagnetic Energy Harvester of Large-Scale Bistable Motion by Application of Stochastic Resonance. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2022, 144, .	1.0	3
2	A rotational multi-stable vibration energy harvesting system. <i>Transactions of the JSME (in Japanese)</i> , 2022, , .	0.1	0
3	An elliptical railâ€‘massâ€‘spring mechanism to realize multi-stable circulation motion for electromagnetic-energy harvesting. <i>AIP Advances</i> , 2021, 11, .	0.6	1
4	Development of large-scale bistable motion system for energy harvesting by application of stochastic resonance. <i>Journal of Sound and Vibration</i> , 2020, 473, 115213.	2.1	19
5	Driverâ€™s Preview Modeling Based on Visual Characteristics through Actual Vehicle Tests. <i>Sensors</i> , 2020, 20, 6237.	2.1	6
6	Bistable vibration harvesting system of diagonally supported spring-mass by using piezoelectric element. <i>Transactions of the JSME (in Japanese)</i> , 2020, 86, 20-00072-20-00072.	0.1	2
7	Influence of Vehicle Speeds in Curve Driving on Pupil Diameters of Drivers. , 2020, , .		0
8	Design and Evaluation of a Surface Electromyography-Controlled Steering Assistance Interface. <i>Sensors</i> , 2019, 19, 1308.	2.1	7
9	Driver-Automation Shared Control: Modeling Driver Behavior by Taking Account of Reliance on Haptic Guidance Steering. , 2018, , .		12
10	A Biosignal Based Driving Experience Analysis for Curved Road: An Initial Implementation*. , 2018, , .		1
11	The Effect of a Haptic Guidance Steering System on Fatigue-Related Driver Behavior. <i>IEEE Transactions on Human-Machine Systems</i> , 2017, 47, 741-748.	2.5	55
12	Effectiveness Testing of a Piezoelectric Energy Harvester for an Automobile Wheel Using Stochastic Resonance. <i>Sensors</i> , 2016, 16, 1727.	2.1	62
13	Analysis of influence on driver behaviour while using inâ€‘vehicle traffic lights with application of headâ€‘up display. <i>IET Intelligent Transport Systems</i> , 2016, 10, 347-353.	1.7	22
14	Modelling analysis for vibration energy harvesting excited by low-speed automobile tires. <i>Transactions of the JSME (in Japanese)</i> , 2016, 82, 15-00645-15-00645.	0.1	5
15	Stabilisation of the high-energy orbit for a non-linear energy harvester with variable damping. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 2003-2012.	1.1	13
16	Eye-Gaze Tracking Analysis of Driver Behavior While Interacting With Navigation Systems in an Urban Area. <i>IEEE Transactions on Human-Machine Systems</i> , 2016, 46, 546-556.	2.5	48
17	Feasibility of Energy Harvesting Using Stochastic Resonance Caused by Axial Periodic Force. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2015, 60, 314-320.	0.6	16
18	Biosignal Analysis to Assess Mental Stress in Automatic Driving of Trucks: Palmar Perspiration and Masseter Electromyography. <i>Sensors</i> , 2015, 15, 5136-5150.	2.1	55

#	ARTICLE	IF	CITATIONS
19	On square-wave-driven stochastic resonance for energy harvesting in a bistable system. AIP Advances, 2014, 4, 117140.	0.6	10
20	Investigations of a Stiffness Tunable Nonlinear Vibrational Energy Harvester. International Journal of Structural Stability and Dynamics, 2014, 14, 1440023.	1.5	8
21	An application of stochastic resonance for energy harvesting in a bistable vibrating system. Journal of Sound and Vibration, 2014, 333, 2568-2587.	2.1	116
22	Study on Emergency-Avoidance Braking for the Automatic Platooning of Trucks. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1748-1757.	4.7	35
23	Evaluation of Sternocleidomastoid Muscle Activity of a Passenger in Response to a Car's Lateral Acceleration While Slalom Driving. IEEE Transactions on Human-Machine Systems, 2013, 43, 405-415.	2.5	14
24	An experimental study of stochastic resonance in a bistable mechanical system. Journal of Physics: Conference Series, 2012, 382, 012024.	0.3	5
25	Gait Analysis Using Wearable Sensors. Sensors, 2012, 12, 2255-2283.	2.1	861
26	In vivo estimation of dynamic muscle-tendon moment arm length using a wearable sensor system. , 2008, , .		1
27	Novel approach for lower limb segment orientation in gait analysis using triaxial accelerometers. , 2008, , .		7
28	Kinetics Analysis of Ankle, Knee and Hip Joints Using a Wearable Sensor System. Journal of Biomechanical Science and Engineering, 2008, 3, 343-355.	0.1	18
29	Measurement of human lower limb orientations and ground reaction forces using wearable sensor systems. , 2007, , .		5
30	CALCULATION OF JOINT MOMENT USING WEARABLE SENSOR SYSTEMS(3B2 Orthopaedic & Rehabilitation) Tj ETQq0 0 0 rgBT /Overlock and Technology in Biomechanics, 2007, 2007.3, S192.	0.0	0
31	Wearable Sensor System for Human Dynamics Analysis. , 0, , .		2