Hassan Askari

List of Publications by Year
in descending order

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25 papers	1,353 citations	394421 19 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1195 citing authors

#	Article	IF	Citations
1	Nanogenerators for smart cities in the era of 5G and Internet of Things. Joule, 2021, 5, 1391-1431.	24.0	261
2	Piezoelectric and triboelectric nanogenerators: Trends and impacts. Nano Today, 2018, 22, 10-13.	11.9	121
3	Frequency analysis of strongly nonlinear generalized Duffing oscillators using Heâ€™s frequencyâ€“amplitude formulation and Heâ€™s energy balance method. Computers and Mathematics With Applications, 2010, 59, 3222-3228.	2.7	111
4	Elastic and viscoelastic foundations: a review on linear and nonlinear vibration modeling and applications. Nonlinear Dynamics, 2019, 97, 853-895.	5.2	101
5	A hybridized electromagnetic-triboelectric self-powered sensor for traffic monitoring: concept, modelling, and optimization. Nano Energy, 2017, 32, 105-116.	16.0	87
6	Embedded self-powered sensing systems for smart vehicles and intelligent transportation. Nano Energy, 2019, 66, 104103.	16.0	73
7	Forced vibration of fluid conveying carbon nanotubes considering thermal effect and nonlinear foundations. Composites Part B: Engineering, 2017, 113, 31-43.	12.0	70
8	Towards self-powered sensing using nanogenerators for automotive systems. Nano Energy, 2018, 53, 1003-1019.	16.0	68
9	Tire Condition Monitoring and Intelligent Tires Using Nanogenerators Based on Piezoelectric, Electromagnetic, and Triboelectric Effects. Advanced Materials Technologies, 2019, 4, 1800105.	5.8	57
10	A flexible hybridized electromagnetic-triboelectric multi-purpose self-powered sensor. Nano Energy, 2018, 45, 319-329.	16.0	52
11	Modeling and performance analysis of duck-shaped triboelectric and electromagnetic generators for water wave energy harvesting. International Journal of Energy Research, 2017, 41, 2392-2404.	4.5	45
12	A heaving point absorber-based triboelectric-electromagnetic wave energy harvester: An efficient approach toward blue energy. International Journal of Energy Research, 2018, 42, 2431-2447.	4.5	41
13	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. Materials Today, 2022, 52, 188-206.	14.2	38
14	A Triboelectric Selfâ€Powered Sensor for Tire Condition Monitoring: Concept, Design, Fabrication, and Experiments. Advanced Engineering Materials, 2017, 19, 1700318.	3.5	36
15	Tire Force Estimation in Intelligent Tires Using Machine Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3565-3574.	8.0	33
16	High frequency nano electromagnetic self-powered sensor: Concept, modelling and analysis. Measurement: Journal of the International Measurement Confederation, 2017, 107, 31-40.	5.0	32
17	Nonlocal effect in carbon nanotube resonators: A comprehensive review. Advances in Mechanical Engineering, 2017, 9, 168781401668692.	1.6	24
18	A flexible tube-based triboelectricâ€“electromagnetic sensor for knee rehabilitation assessment. Sensors and Actuators A: Physical, 2018, 279, 694-704.	4.1	22

#	Article	IF	Citations
19	Tire Slip Angle Estimation Based on the Intelligent Tire Technology. IEEE Transactions on Vehicular Technology, 2021, 70, 2239-2249.	6.3	21
20	High resolution mass identification using nonlinear vibrations of nanoplates. Measurement: Journal of the International Measurement Confederation, 2017, 101, 166-174.	5.0	20
21	Lateral Force Prediction Using Gaussian Process Regression for Intelligent Tire Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5332-5343.	9.3	14
22	Direct tire slip ratio estimation using intelligent tire system and machine learning algorithms. Mechanical Systems and Signal Processing, 2022, 175, 109085.	8.0	13
23	Parameter Identification and Adaptive Control Of Carbon Nanotube Resonators. Asian Journal of Control, 2018, 20, 1329-1338.	3.0	9
24	Analytical Solutions for Oscillation of Rectangular Plate on a Nonlinear Winkler Foundation. , 2011, , .		2
25	Free Vibrations of Flexoelectric FGM Conical Nanoshells with Piezoelectric Layers: Modeling and Analysis. Energies, 2022, 15, 2973.	3.1	2