Ya Wang

List of Publications by Year
in descending order

44 papers	758 citations	430442 18 h-index	580395 25 g-index
47 all docs	47 docs citations	47 times ranked	604 citing authors

#	Article	IF	Citations
1	Magnetic Fields and Magnetically Stimulated Gold-Coated Superparamagnetic Iron Oxide Nanoparticles Differentially Modulate L-Type Voltage-Gated Calcium Channel Activity in Midbrain Neurons. ACS Applied Nano Materials, 2022, 5, 205-215.	2.4	7
2	A Coarse Fingerprint-Assisted Multiple Target Indoor Device-Free Localization With Visible Light Sensing. IEEE Sensors Journal, 2022, 22, 1461-1473.	2.4	7
3	Superparamagnetic iron oxide-enclosed hollow gold nanostructure with tunable surface plasmon resonances to promote near-infrared photothermal conversion. Advanced Composites and Hybrid Materials, 2022, 5, 2387-2398.	9.9	21
4	Blood-brain barrier crossing using magnetic stimulated nanoparticles. Journal of Controlled Release, 2022, 345, 557-571.	4.8	20
5	Toe Tapping Based Falling Risk Evaluation for Patients With Parkinson's Disease Using Monitoring Insoles. , 2022, 6, 1-4.		1
6	Distinguishing Medication ON and OFF for Parkinsonâ€™s Disease Through Repetitive Foot Motion Recognition and Analysis. IEEE Sensors Journal, 2022, 22, 12219-12227.	2.4	3
7	Insole-Based Falling Risk Evaluation for Patients With Parkinson's Disease Through Walking While Holding a Cup of Water. , 2022, 6, 1-4.		2
8	Progress, Opportunities, and Challenges of Magneto-Plasmonic Nanoparticles under Remote Magnetic and Light Stimulation for Brain-Tissue and Cellular Regeneration. Nanomaterials, 2022, 12, 2242.	1.9	4
9	Smart insoles review (2008-2021): Applications, potentials, and future. Smart Health, 2022, 25, 100301.	2.0	15
10	Stationary and Moving Occupancy Detection Using the SLEEPIR Sensor Module and Machine Learning. IEEE Sensors Journal, 2021, 21, 14701-14708.	2.4	16
11	Remote Recognition of In-Bed Postures Using a Thermopile Array Sensor With Machine Learning. IEEE Sensors Journal, 2021, 21, 10428-10436.	2.4	19
12	Robust Foot Motion Recognition Using Stride Detection and Weak Supervision-Based Fast Labeling. IEEE Sensors Journal, 2021, 21, 16245-16255.	2.4	4
13	Superparamagnetic iron oxideâ€"gold nanoparticles conjugated with porous coordination cages: Towards controlled drug release for non-invasive neuroregeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 35, 102392.	1.7	13
14	Performance Optimization of the SLEEPIR Sensor Towards Indoor Stationary Occupancy Detection. IEEE Sensors Journal, 2021, 21, 23776-23786.	2.4	6
15	Occupancy Detection Using a Temperature-Sensitive Adaptive Algorithm. , 2021, 5, 1-4.		9
16	Age-Dependent Mobility Decline Analysis Through Sequential Foot Motion Reproduction. , 2021, 5, 1-4.		3
17	A Customized Convolutional Neural Network Model Integrated With Acceleration-Based Smart Insole Toward Personalized Foot Gesture Recognition. , 2020, 4, 1-4.		10
18	All-passive nonlinear electromagnetic metastructure for simultaneous energy harvesting and earthquake mitigation. Europhysics Letters, 2020, 129, 58004.	0.7	0

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19	SLEEPIR: Synchronized Low-Energy Electronically Chopped PIR Sensor for True Presence Detection. , 2020, 4, 1-4.		14
20	Personalized dynamic transport of magnetic nanorobots inside the brain vasculature. Nanotechnology, 2020, 31, 495706.	1.3	17
21	True Presence Detection via Passive Infrared Sensor Network Using Liquid Crystal Infrared Shutters. , 2020, , .		5
22	Engineered nanomedicine for neuroregeneration: light emitting diode-mediated superparamagnetic iron oxide-gold core-shell nanoparticles functionalized by nerve growth factor. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102052.	1.7	22
23	Thermocouple-tip-exposing temperature assessment technique for evaluating photothermal conversion efficiency of plasmonic nanoparticles at low laser power density. Review of Scientific Instruments, 2019, 90, 094902.	0.6	8
24	Monitoring Insole (MONI): A Low Power Solution Toward Daily Gait Monitoring and Analysis. IEEE Sensors Journal, 2019, 19, 6410-6420.	2.4	22
25	A dual electromagnetic array with intrinsic frequency up-conversion for broadband vibrational energy harvesting. Applied Physics Letters, 2019, 114, .	1.5	15
26	Boosting the efficiency of a footstep piezoelectric-stack energy harvester using the synchronized switch technology. Journal of Intelligent Material Systems and Structures, 2019, 30, 813-822.	1.4	28
27	Compressive Sensing Based Indoor Occupancy Positioning Using a Single Thermopile Point Detector With a Coded Binary Mask. , 2019, 3, 1-4.		6
28	Daily Locomotor Movement Recognition with a Smart Insole and a Pre-defined Route Map: Towards Early Motor Dysfunction Detection*. , 2019, , .		2
29	A Low-Power Electric-Mechanical Driving Approach for True Occupancy Detection Using a Shuttered Passive Infrared Sensor. IEEE Sensors Journal, 2019, 19, 47-57.	2.4	53
30	Promoting neuroregeneration by applying dynamic magnetic fields to a novel nanomedicine: Superparamagnetic iron oxide (SPIO)-gold nanoparticles bounded with nerve growth factor (NGF). Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1337-1347.	1.7	61
31	Infrared–ultrasonic sensor fusion for support vector machine–based fall detection. Journal of Intelligent Material Systems and Structures, 2018, 29, 2027-2039.	1.4	39
32	Systematic study of dual resonant rectilinear-to-rotary motion converter for low frequency vibrational energy harvesting. Sensors and Actuators A: Physical, 2018, 284, 66-75.	2.0	5
33	Occupancy Detection and Localization by Monitoring Nonlinear Energy Flow of a Shuttered Passive Infrared Sensor. IEEE Sensors Journal, 2018, 18, 8656-8666.	2.4	38
34	A nonlinear interface integrated lever mechanism for piezoelectric footstep energy harvesting. Applied Physics Letters, 2018, 113, .	1.5	21
35	Unobtrusive Sensor-Based Occupancy Facing Direction Detection and Tracking Using Advanced Machine Learning Algorithms. IEEE Sensors Journal, 2018, 18, 6360-6368.	2.4	36
36	A dual resonant rectilinear-to-rotary oscillation converter for low frequency broadband electromagnetic energy harvesting. Smart Materials and Structures, 2017, 26, 095059.	1.8	5

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37	SPIOâ€Au coreâ€"shell nanoparticles for promoting osteogenic differentiation of MC3T3â€1 cells: Concentrationâ€dependence study. Journal of Biomedical Materials Research - Part A, 2017, 105, 3350-3359.	2.1	24
38	Turning a pyroelectric infrared motion sensor into a high-accuracy presence detector by using a narrow semi-transparent chopper. Applied Physics Letters, 2017, 111, .	1.5	23
39	Deformable force amplification frame promoting piezoelectric stack energy harvesting: Parametric model, experiments and energy analysis. Journal of Intelligent Material Systems and Structures, 2017, 28, 827-836.	1.4	31
40	Systematic parameter study of a nonlinear electromagnetic energy harvester with matched magnetic orientation: Numerical simulation and experimental investigation. Mechanical Systems and Signal Processing, 2017, 85, 591-600.	4.4	25
41	Non-contact magnetically coupled rectilinear-rotary oscillations to exploit low-frequency broadband energy harvesting with frequency up-conversion. Applied Physics Letters, 2016, 109, 133903.	1.5	19
42	Airfoil-based electromagnetic energy harvester containing parallel array motion between moving coil and multi-pole magnets towards enhanced power density. Review of Scientific Instruments, 2016, 87, 114705.	0.6	11
43	Piezoelectric stack energy harvesting with a force amplification frame: Modeling and experiment. Journal of Intelligent Material Systems and Structures, 2016, 27, 2324-2332.	1.4	43
44	Energy Harvesting of Piezoelectric Stack Actuator From a Shock Event. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.0	19