Brendan O'Flynn

List of Publications by Year
in descending order

		623188	476904
41 papers	938 citations	14 h-index	29 g-index
42 all docs	42 docs citations	42 times ranked	1176 citing authors

#	Article	IF	Citations
1	Indirect Measurement of Ground Reaction Forces and Moments by Means of Wearable Inertial Sensors: A Systematic Review. Sensors, 2018, 18, 2564.	2.1	140
2	Motion Capture Technology in Industrial Applications: A Systematic Review. Sensors, 2020, 20, 5687.	2.1	124
3	A Review of Activity Trackers for Senior Citizens: Research Perspectives, Commercial Landscape and the Role of the Insurance Industry. Sensors, 2017, 17, 1277.	2.1	99
4	Validity Evaluation of the Fitbit Charge2 and the Garmin vivosmart HR+ in Free-Living Environments in an Older Adult Cohort. JMIR MHealth and UHealth, 2019, 7, e13084.	1.8	93
5	A Review of Wearable Solutions for Physiological and Emotional Monitoring for Use by People with Autism Spectrum Disorder and Their Caregivers. Sensors, 2018, 18, 4271.	2.1	76
6	Continuous home monitoring of Parkinson's disease using inertial sensors: A systematic review. PLoS ONE, 2021, 16, e0246528.	1.1	50
7	A Wristwatch-Based Wireless Sensor Platform for IoT Health Monitoring Applications. Sensors, 2020, 20, 1675.	2.1	40
8	Predicting Three-Dimensional Ground Reaction Forces in Running by Using Artificial Neural Networks and Lower Body Kinematics. IEEE Access, 2019, 7, 156779-156786.	2.6	39
9	A Comprehensive Survey on RF Energy Harvesting: Applications and Performance Determinants. Sensors, 2022, 22, 2990.	2.1	25
10	Potential of Sub-GHz Wireless for Future IoT Wearables and Design of Compact 915 MHz Antenna. Sensors, 2018, 18, 22.	2.1	24
11	Flexible and Transparent Circularly Polarized Patch Antenna for Reliable Unobtrusive Wearable Wireless Communications. Sensors, 2022, 22, 1276.	2.1	23
12	Hand Tracking and Gesture Recognition Using Lensless Smart Sensors. Sensors, 2018, 18, 2834.	2.1	21
13	A Smart Archive Box for Museum Artifact Monitoring Using Battery-Less Temperature and Humidity Sensing. Sensors, 2021, 21, 4903.	2.1	21
14	Motion Sensors-Based Machine Learning Approach for the Identification of Anterior Cruciate Ligament Gait Patterns in On-the-Field Activities in Rugby Players. Sensors, 2020, 20, 3029.	2.1	19
15	Unsupervised IMU-based evaluation of at-home exercise programmes: a feasibility study. BMC Sports Science, Medicine and Rehabilitation, 2022, 14, 28.	0.7	14
16	Experimental Validation of the Tyndall Portable Lower-limb Analysis System with Wearable Inertial Sensors. Procedia Engineering, 2016, 147, 208-213.	1.2	13
17	Development of a Low-Power Underwater NFC-Enabled Sensor Device for Seaweed Monitoring. Sensors, 2021, 21, 4649.	2.1	12
18	A machine learning approach for gesture recognition with a lensless smart sensor system. , 2018, , .		10

#	Article	IF	Citations
19	A Wearable System for the Estimation of Performance-Related Metrics during Running and Jumping Tasks. Applied Sciences (Switzerland), 2021, 11, 5258.	1.3	8
20	Sensor and feature selection for an emergency first responders activity recognition system. , 2017, , .		7
21	Comparison of Machine Learning Techniques for Mortality Prediction in a Prospective Cohort of Older Adults. International Journal of Environmental Research and Public Health, 2021, 18, 12806.	1.2	7
22	A Novel RCS based CRFID Tag Design. , 2022, , .		7
23	Using Domain Knowledge for Interpretable and Competitive Multi-Class Human Activity Recognition. Sensors, 2020, 20, 1208.	2.1	6
24	Knowledge-driven feature engineering to detect multiple symptoms using ambulatory blood pressure monitoring data. Computer Methods and Programs in Biomedicine, 2022, 217, 106638.	2.6	6
25	A novel first responders location tracking system: Architecture and functional requirements. , 2015, , .		5
26	IMPROVED NLOS ERROR MITIGATION BASED ON LTS ALGORITHM. Progress in Electromagnetics Research Letters, 2016, 58, 133-139.	0.4	5
27	Design of a compact, fullyâ€autonomous 433 MHz tunable antenna for wearable wireless sensor applications. IET Microwaves, Antennas and Propagation, 2017, 11, 548-556.	0.7	5
28	A fuzzy logic approach for improving the tracking accuracy in indoor localisation applications. , 2018, , .		5
29	A Comprehensive Comparison of Commercial Wrist-Worn Trackers in a Young Cohort in a Lab-Environment. , 2018, , .		4
30	Effects of segment masses and cut-off frequencies on the estimation of vertical ground reaction forces in running. Journal of Biomechanics, 2020, 99, 109552.	0.9	4
31	Comparing Person-Specific and Independent Models on Subject-Dependent and Independent Human Activity Recognition Performance. Sensors, 2020, 20, 3647.	2.1	4
32	A Museum Artefact Monitoring Testbed using LoRaWAN. , 2021, , .		4
33	Smart Compression Therapy Devices for Treatment of Venous Leg Ulcers: A Review. Advanced Healthcare Materials, 2022, 11, .	3.9	4
34	Wearable Textile-Based Device for Human Lower-Limbs Kinematics and Muscle Activity Sensing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 70-81.	0.2	3
35	A Bandwidth-Enhanced Sub-GHz Wristwatch Antenna Using an Optimized Feed Structure. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1389-1393.	2.4	3
36	Screen Printed Epidermal Antenna for IoT Health Monitoring. , 2021, , .		3

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37	Investigation of the analysis of wearable data for cancer-specific mortality prediction in older adults. , 2021, 2021, 1848-1851.		3
38	Marine Inertial Measurement Units: Communication, Capabilities, and Challenges. Marine Technology Society Journal, 2015, 49, 56-63.	0.3	1
39	Subject-dependent and -independent human activity recognition with person-specific and -independent models. , 2019, , .		1
40	On localization with robust power control for safety critical wireless sensor networks. Journal of Control Theory and Applications, 2011, 9, 83-92.	0.8	0
41	An 868 MHz Bandage Type Antenna using Aluminum conductor and PDMS substrate. , 2022, , .		0