

John Barton

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,085
citations

567281

15
h-index

642732

23
g-index

37
all docs

37
docs citations

37
times ranked

1573
citing authors

#	ARTICLE	IF	CITATIONS
1	Screen-printed electrodes for environmental monitoring of heavy metal ions: a review. <i>Mikrochimica Acta</i> , 2016, 183, 503-517.	5.0	227
2	Indirect Measurement of Ground Reaction Forces and Moments by Means of Wearable Inertial Sensors: A Systematic Review. <i>Sensors</i> , 2018, 18, 2564.	3.8	140
3	A Review of Activity Trackers for Senior Citizens: Research Perspectives, Commercial Landscape and the Role of the Insurance Industry. <i>Sensors</i> , 2017, 17, 1277.	3.8	99
4	Validity Evaluation of the Fitbit Charge2 and the Garmin vivosmart HR+ in Free-Living Environments in an Older Adult Cohort. <i>JMIR MHealth and UHealth</i> , 2019, 7, e13084.	3.7	93
5	Accuracy of consumer-level and research-grade activity trackers in ambulatory settings in older adults. <i>PLoS ONE</i> , 2019, 14, e0216891.	2.5	80
6	Older Adultsâ€™ Experiences With Using Wearable Devices: Qualitative Systematic Review and Meta-synthesis. <i>JMIR MHealth and UHealth</i> , 2021, 9, e23832.	3.7	63
7	Development of field programmable modular wireless sensor network nodes for ambient systems. <i>Computer Communications</i> , 2005, 28, 1531-1544.	5.1	51
8	Continuous home monitoring of Parkinsonâ€™s disease using inertial sensors: A systematic review. <i>PLoS ONE</i> , 2021, 16, e0246528.	2.5	50
9	A Wristwatch-Based Wireless Sensor Platform for IoT Health Monitoring Applications. <i>Sensors</i> , 2020, 20, 1675.	3.8	40
10	Predicting Three-Dimensional Ground Reaction Forces in Running by Using Artificial Neural Networks and Lower Body Kinematics. <i>IEEE Access</i> , 2019, 7, 156779-156786.	4.2	39
11	Synthesis and characterization of nanocomposites based on PANI and carbon nanostructures prepared by electropolymerization. <i>Materials Chemistry and Physics</i> , 2017, 185, 83-90.	4.0	25
12	Potential of Sub-GHz Wireless for Future IoT Wearables and Design of Compact 915 MHz Antenna. <i>Sensors</i> , 2018, 18, 22.	3.8	24
13	Review of pH sensing materials from macro- to nano-scale: Recent developments and examples of seawater applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 979-1021.	12.8	23
14	A Smart Archive Box for Museum Artifact Monitoring Using Battery-Less Temperature and Humidity Sensing. <i>Sensors</i> , 2021, 21, 4903.	3.8	21
15	The DSYS25 sensor platform. , 2004, , .		17
16	Microstructural, mechanical, fractural and electrical characterization of thinned and singulated silicon test die. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1519-1529.	2.6	17
17	The Views and Needs of People With Parkinson Disease Regarding Wearable Devices for Disease Monitoring: Mixed Methods Exploration. <i>JMIR Formative Research</i> , 2022, 6, e27418.	1.4	12
18	A Wearable System for the Estimation of Performance-Related Metrics during Running and Jumping Tasks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5258.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Feasibility of Sensor Technology for Balance Assessment in Home Rehabilitation Settings. <i>Sensors</i> , 2021, 21, 4438.	3.8	7
20	Comparison of Machine Learning Techniques for Mortality Prediction in a Prospective Cohort of Older Adults. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12806.	2.6	7
21	A Novel RCS based CRFID Tag Design. , 2022, , .		7
22	New cost-effective, interoperable sensors tested on existing ocean observing platforms in application of European directives: The COMMON SENSE European project. , 2015, , .		4
23	A Comprehensive Comparison of Commercial Wrist- Worn Trackers in a Young Cohort in a Lab-Environment. , 2018, , .		4
24	Effects of segment masses and cut-off frequencies on the estimation of vertical ground reaction forces in running. <i>Journal of Biomechanics</i> , 2020, 99, 109552.	2.1	4
25	Wearable motion sensors and artificial neural network for the estimation of vertical ground reaction forces in running. , 2020, , .		4
26	A Museum Artefact Monitoring Testbed using LoRaWAN. , 2021, , .		4
27	A Bandwidth-Enhanced Sub-GHz Wristwatch Antenna Using an Optimized Feed Structure. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 1389-1393.	4.0	3
28	Distributed, Embedded Sensor and Actuator Platforms. <i>Microsystems</i> , 2008, , 105-129.	0.3	3
29	Investigation of the analysis of wearable data for cancer-specific mortality prediction in older adults. , 2021, 2021, 1848-1851.		3
30	A miniaturised arrow ballistic measurement system. , 2011, , .		1
31	Arrow-mounted Ballistic System for Measuring Performance of Arrows Equipped with Hunting Broadheads. <i>Procedia Engineering</i> , 2012, 34, 455-460.	1.2	1
32	Design of a Wearable Bruxism Detection Device. , 2021, , .		0
33	Embedded Microelectronic Subsystems. <i>Microsystems</i> , 2008, , 131-153.	0.3	0
34	State-of-the-Art Sensors Research in Ireland. <i>Sensors</i> , 2022, 22, 629.	3.8	0