Barry R Greene

List of Publications by Year
in descending order

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57	2,393	304743	330143
papers	citations	22 h-index	37 g-index

58	58	58	2771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SHIMMERâ„¢ â€“ A Wireless Sensor Platform for Noninvasive Biomedical Research. IEEE Sensors Journal, 2010, 10, 1527-1534.	4.7	471
2	Quantitative Falls Risk Assessment Using the Timed Up and Go Test. IEEE Transactions on Biomedical Engineering, 2010, 57, 2918-2926.	4.2	202
3	A comparison of quantitative EEG features for neonatal seizure detection. Clinical Neurophysiology, 2008, 119, 1248-1261.	1.5	186
4	An adaptive gyroscope-based algorithm for temporal gait analysis. Medical and Biological Engineering and Computing, 2010, 48, 1251-1260.	2.8	160
5	Combination of EEG and ECG for improved automatic neonatal seizure detection. Clinical Neurophysiology, 2007, 118, 1348-1359.	1.5	94
6	Falls classification using tri-axial accelerometers during the five-times-sit-to-stand test. Gait and Posture, 2013, 38, 1021-1025.	1.4	84
7	Evaluation of Falls Risk in Community-Dwelling Older Adults Using Body-Worn Sensors. Gerontology, 2012, 58, 472-480.	2.8	80
8	Frailty status can be accurately assessed using inertial sensors and the TUG test. Age and Ageing, 2014, 43, 406-411.	1.6	71
9	Fall Risk Assessment Through Automatic Combination of Clinical Fall Risk Factors and Body-Worn Sensor Data. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 725-731.	6.3	54
10	Classification of frailty and falls history using a combination of sensor-based mobility assessments. Physiological Measurement, 2014, 35, 2053-2066.	2.1	53
11	EEG in the healthy term newborn within 12 hours of birth. Clinical Neurophysiology, 2009, 120, 1046-1053.	1.5	52
12	Gyroscope-based assessment of temporal gait parameters during treadmill walking and running. Sports Engineering, 2012, 15, 207-213.	1.1	52
13	Quantitative falls risk estimation through multi-sensor assessment of standing balance. Physiological Measurement, 2012, 33, 2049-2063.	2.1	49
14	The reliability of the quantitative timed up and go test (QTUG) measured over five consecutive days under single and dual-task conditions in community dwelling older adults. Gait and Posture, 2016, 43, 239-244.	1.4	48
15	Displacement of centre of mass during quiet standing assessed using accelerometry in older fallers and non-fallers. , 2012, 2012, 3300-3.		47
16	Electrocardiogram Based Neonatal Seizure Detection. IEEE Transactions on Biomedical Engineering, 2007, 54, 673-682.	4.2	46
17	SHIMMER: A new tool for temporal gait analysis. , 2009, 2009, 3826-9.		41
18	SHIMMER™: An extensible platform for physiological signal capture. , 2010, 2010, 3759-62.		38

#	Article	IF	Citations
19	Assessment and Classification of Early-Stage Multiple Sclerosis With Inertial Sensors: Comparison Against Clinical Measures of Disease State. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1356-1361.	6.3	38
20	A Comparison of Algorithms for Body-Worn Sensor-Based Spatiotemporal Gait Parameters to the GAITRite Electronic Walkway. Journal of Applied Biomechanics, 2012, 28, 349-355.	0.8	37
21	Assessment of Cognitive Decline Through Quantitative Analysis of the Timed Up and Go Test. IEEE Transactions on Biomedical Engineering, 2012, 59, 988-995.	4.2	37
22	An instrumented sit-to-stand test used to examine differences between older fallers and non-fallers. , 2011, 2011, 3063-6.		35
23	A single gyroscope method for spatial gait analysis. , 2010, 2010, 1300-3.		33
24	Estimation of minimum ground clearance (MGC) using body-worn inertial sensors. Journal of Biomechanics, 2011, 44, 1083-1088.	2.1	32
25	Diurnal variations in the outcomes of instrumented gait and quiet standing balance assessments and their association with falls history. Physiological Measurement, 2012, 33, 361-373.	2.1	31
26	Technology Innovation Enabling Falls Risk Assessment in a Community Setting. Ageing International, 2011, 36, 217-231.	1.3	30
27	Digital assessment of falls risk, frailty, and mobility impairment using wearable sensors. Npj Digital Medicine, 2019, 2, 125.	10.9	30
28	Effect of a dual task on quantitative Timed Up and Go performance in communityâ€dwelling older adults: A preliminary study. Geriatrics and Gerontology International, 2017, 17, 1176-1182.	1.5	23
29	Early identification of declining balance in higher functioning older adults, an inertial sensor based method. Gait and Posture, 2014, 39, 1034-1039.	1.4	20
30	Adaptive estimation of temporal gait parameters using body-worn gyroscopes. , 2010, 2010, 1296-9.		18
31	Longitudinal assessment of falls in patients with Parkinsonâ€™s disease using inertial sensors and the Timed Up and Go test. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831775081.	0.9	16
32	Heart and respiration rate changes in the neonate during electroencephalographic seizure. Medical and Biological Engineering and Computing, 2006, 44, 27-34.	2.8	15
33	Objective real-time assessment of walking and turning in elderly adults. , 2009, 2009, 807-10.		15
34	Reliability of quantitative TUG measures of mobility for use in falls risk assessment. , 2011, 2011, 466-9.		14
35	Taking balance measurement out of the laboratory and into the home: Discriminatory capability of novel centre of pressure measurement in fallers and non-fallers. , 2012, 2012, 3296-9.		13
36	Quantitative assessment of multiple sclerosis using inertial sensors and the TUG test. , 2014, 2014, 2977-80.		13

#	Article	IF	Citations
37	Unsupervised Assessment of Balance and Falls Risk Using a Smartphone and Machine Learning. Sensors, 2021, 21, 4770.	3.8	13
38	A comparison of cross-sectional and prospective algorithms for falls risk assessment. , 2014, 2014, 4527-30.		12
39	Development of Data-Driven Metrics for Balance Impairment and Fall Risk Assessment in Older Adults. IEEE Transactions on Biomedical Engineering, 2022, 69, 2324-2332.	4.2	11
40	Predicting Fall Counts Using Wearable Sensors: A Novel Digital Biomarker for Parkinsonâ€™s Disease. Sensors, 2022, 22, 54.	3.8	9
41	Body-worn sensor based surrogates of minimum ground clearance in elderly fallers and controls. , 2011, 2011, 6499-502.		8
42	Reliability of inertial sensor based spatiotemporal gait parameters for short walking bouts in community dwelling older adults. Gait and Posture, 2021, 85, 1-6.	1.4	8
43	Multi-channel EEG based Neonatal Seizure Detection. , 2006, 2006, 4679-84.		6
44	Can state or response entropy be used as a measure of sleep depth?. Anaesthesia, 2008, 63, 1309-1313.	3.8	6
45	SHIMMER: A new tool for long-term, extra-laboratory gait monitoring. Gait and Posture, 2009, 30, S25-S26.	1.4	6
46	Effects of a Low-Volume, Vigorous Intensity Step Exercise Program on Functional Mobility in Middle-Aged Adults. Annals of Biomedical Engineering, 2013, 41, 1748-1757.	2.5	6
47	Short Bouts of Gait Data and Body-Worn Inertial Sensors Can Provide Reliable Measures of Spatiotemporal Gait Parameters from Bilateral Gait Data for Persons with Multiple Sclerosis. Biosensors, 2020, 10, 128.	4.7	6
48	Stability of daily home-based measures of postural control over an 8-week period in highly functioning older adults. European Journal of Applied Physiology, 2015, 115, 437-449.	2.5	5
49	Detecting subtle mobility changes among older adults: the Quantitative Timed Up and Go test. Aging Clinical and Experimental Research, 2021, 33, 2157-2164.	2.9	5
50	Impact of Exercise Intervention in Parkinsonâ€™s Disease can be Quantified Using Inertial Sensor Data and Clinical Tests. , 2019, 2019, 3507-3510.		4
51	How many steps to represent individual gait?. , 2020, , .		4
52	Clinical gait assessment of older adults using open platform tools. , 2011, 2011, 462-5.		3
53	Development and validation of a clinic based balance assessment technology. , 2011, 2011, 1327-30.		2
54	Investigating normal day to day variations of postural control in a healthy young population using Wii balance boards. , 2019, 2019, 2059-2062.		0

#	Article	IF	Citations
55	Human Movement Analysis: Introduction to Motion Capture and Applications for Health. , 2020, , .		0
56	Multi-channel EEG based Neonatal Seizure Detection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
57	Estimating balance, cognitive function, and falls risk using wearable sensors and the sit-to-stand test. Wearable Technologies, 2022, 3, .	3.1	0