Lauren C Benson

List of Publications by Year
in descending order

36 papers	770 citations	567281 15 h-index	526287 27 g-index
36 all docs	36 docs citations	36 times ranked	853 citing authors

#	Article	IF	Citations
1	The use of wearable devices for walking and running gait analysis outside of the lab: A systematic review. Gait and Posture, 2018, 63, 124-138.	1.4	168
2	Running patterns for male and female competitive and recreational runners based on accelerometer data. Journal of Sports Sciences, 2019, 37, 204-211.	2.0	57
3	Automated Accelerometer-Based Gait Event Detection During Multiple Running Conditions. Sensors, 2019, 19, 1483.	3.8	49
4	Total synthesis of the antimalarial naphthylisoquinoline alkaloid 5-epi-4â€²-O-demethylancistrobertsonine C by asymmetric Suzuki cross-coupling. Tetrahedron, 2008, 64, 5563-5568.	1.9	45
5	Using wearable sensors to classify subject-specific running biomechanical gait patterns based on changes in environmental weather conditions. PLoS ONE, 2018, 13, e0203839.	2.5	42
6	Classifying running speed conditions using a single wearable sensor: Optimal segmentation and feature extraction methods. Journal of Biomechanics, 2018, 71, 94-99.	2.1	39
7	Subject-specific and group-based running pattern classification using a single wearable sensor. Journal of Biomechanics, 2019, 84, 227-233.	2.1	36
8	Sex differences in lower extremity kinematics and patellofemoral kinetics during running. Journal of Sports Sciences, 2017, 35, 1-7.	2.0	35
9	Is This the Real Life, or Is This Just Laboratory? A Scoping Review of IMU-Based Running Gait Analysis. Sensors, 2022, 22, 1722.	3.8	35
10	New Considerations for Wearable Technology Data: Changes in Running Biomechanics During a Marathon. Journal of Applied Biomechanics, 2019, 35, 401-409.	0.8	30
11	Workload a-WEAR-ness: Monitoring Workload in Team Sports With Wearable Technology. A Scoping Review. Journal of Orthopaedic and Sports Physical Therapy, 2020, 50, 549-563.	3.5	25
12	New considerations for collecting biomechanical data using wearable sensors: Number of level runs to define a stable running pattern with a single IMU. Journal of Biomechanics, 2019, 85, 187-192.	2.1	24
13	Validation of a commercially available inertial measurement unit for recording jump load in youth basketball players. Journal of Sports Sciences, 2020, 38, 928-936.	2.0	19
14	Fuzzy Inference System-based Recognition of Slow, Medium and Fast Running Conditions using a Triaxial Accelerometer. Procedia Computer Science, 2017, 114, 401-407.	2.0	18
15	New Considerations for Collecting Biomechanical Data Using Wearable Sensors: The Effect of Different Running Environments. Frontiers in Bioengineering and Biotechnology, 2020, 8, 86.	4.1	18
16	The Effect of Exertion on Joint Kinematics and Kinetics During Running Using a Waveform Analysis Approach. Journal of Applied Biomechanics, 2015, 31, 250-257.	0.8	16
17	Development of a High-Throughput Cell-Based Reporter Assay to Identify Stabilizers of Tumor Suppressor Pdcd4. Journal of Biomolecular Screening, 2010, 15, 21-29.	2.6	15
18	The Effect of a Prefabricated Foot Orthotic on Frontal Plane Joint Mechanics in Healthy Runners. Journal of Applied Biomechanics, 2015, 31, 149-158.	0.8	14

#	Article	IF	Citations
19	The Effect of Isolated Hamstrings Fatigue on Landing and Cutting Mechanics. Journal of Applied Biomechanics, 2015, 31, 211-220.	0.8	14
20	New Considerations for Collecting Biomechanical Data Using Wearable Sensors: How Does Inclination Influence the Number of Runs Needed to Determine a Stable Running Gait Pattern?. Sensors, 2019, 19, 2516.	3.8	12
21	The Influence of a Prefabricated Foot Orthosis on Lower Extremity Mechanics During Running in Individuals With Varying Dynamic Foot Motion. Journal of Orthopaedic and Sports Physical Therapy, 2016, 46, 749-755.	3.5	10
22	Identifying trippers and non-trippers based on knee kinematics during obstacle-free walking. Human Movement Science, 2018, 62, 58-66.	1.4	9
23	A Principal Components Analysis Approach to Quantifying Foot Clearance and Foot Clearance Variability. Journal of Applied Biomechanics, 2019, 35, 116-122.	0.8	8
24	Effects of Caffeine on Exertion, Skill Performance, and Physicality in Ice Hockey. International Journal of Sports Physiology and Performance, 2019, 14, 1422-1429.	2.3	7
25	Exploring the potential utility of a wearable accelerometer for estimating impact forces in ballet dancers. Journal of Sports Sciences, 2020, 38, 231-237.	2.0	7
26	Evaluating Methods for Imputing Missing Data from Longitudinal Monitoring of Athlete Workload. Journal of Sports Science and Medicine, 2021, 20, 188-196.	1.6	7
27	CHANGES IN PATELLOFEMORAL JOINT STRESS DURING RUNNING WITH THE APPLICATION OF A PREFABRICATED FOOT ORTHOTIC. International Journal of Sports Physical Therapy, 2015, 10, 967-75.	1.3	5
28	Magnitude, Frequency, and Accumulation: Workload Among Injured and Uninjured Youth Basketball Players. Frontiers in Sports and Active Living, 2021, 3, 607205.	1.8	4
29	Quantifying knee mechanics during balance training exercises. Human Movement Science, 2017, 51, 138-145.	1.4	1
30	Evaluating a Wearable Solution for Measuring Lower Extremity Asymmetry during Landing. Physiotherapy Canada Physiotherapie Canada, 0, , .	0.6	1
31	440â€…Evaluating exercise fidelity during neuromuscular training programs using wearable technology. , 2021, , .		0
32	084â€…Monitoring workload to evaluate injury risk: the impact of missing data. , 2021, , .		0
33	083â€…Workload weighted for tissue damage results in higher acute:chronic workload ratio for injured vs. uninjured athletes. , 2021, , .		0
34	113â€…The use of inertial measurement units for analyzing change of direction movement in sports: a scoping review. , 2021, , .		0
35	319â€…Knee and ankle overuse injuries in youth basketball players. , 2021, , .		0
36	269â€…Commercially-available inertial measurement unit underestimates number of jumps for females more than males: implications for load monitoring and injury prevention. , 2021, , .		0