Bryce A Killen

List of Publications by Year
in descending order

16 papers	530 citations	687363 13 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	479 citing authors

#	Article	IF	Citations
1	Tibiofemoral contact forces during walking, running and sidestepping. Gait and Posture, 2016, 49, 78-85.	1.4	111
2	Tibiofemoral Contact Forces in the Anterior Cruciate Ligamentâ€“Reconstructed Knee. Medicine and Science in Sports and Exercise, 2016, 48, 2195-2206.	0.4	61
3	Machine learning methods to support personalized neuromusculoskeletal modelling. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1169-1185.	2.8	53
4	Statistical shape modelling versus linear scaling: Effects on predictions of hip joint centre location and muscle moment arms in people with hip osteoarthritis. Journal of Biomechanics, 2019, 85, 164-172.	2.1	47
5	A multi-scale modelling framework combining musculoskeletal rigid-body simulations with adaptive finite element analyses, to evaluate the impact of femoral geometry on hip joint contact forces and femoral bone growth. PLoS ONE, 2020, 15, e0235966.	2.5	42
6	Muscle contributions to medial tibiofemoral compartment contact loading following ACL reconstruction using semitendinosus and gracilis tendon grafts. PLoS ONE, 2017, 12, e0176016.	2.5	30
7	Development and validation of statistical shape models of the primary functional bone segments of the foot. PeerJ, 2020, 8, e8397.	2.0	24
8	Minimal medical imaging can accurately reconstruct geometric bone models for musculoskeletal models. PLoS ONE, 2019, 14, e0205628.	2.5	23
9	Trunk, pelvis and lower limb walking biomechanics are similarly altered in those with femoroacetabular impingement syndrome regardless of cam morphology size. Gait and Posture, 2021, 83, 26-34.	1.4	23
10	Best methods and data to reconstruct paediatric lower limb bones for musculoskeletal modelling. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1225-1238.	2.8	20
11	In Silico-Enhanced Treatment and Rehabilitation Planning for Patients with Musculoskeletal Disorders: Can Musculoskeletal Modelling and Dynamic Simulations Really Impact Current Clinical Practice?. Applied Sciences (Switzerland), 2020, 10, 7255.	2.5	20
12	Individual muscle contributions to tibiofemoral compressive articular loading during walking, running and sidestepping. Journal of Biomechanics, 2018, 80, 23-31.	2.1	19
13	Automated creation and tuning of personalised muscle paths for OpenSim musculoskeletal models of the knee joint. Biomechanics and Modeling in Mechanobiology, 2021, 20, 521-533.	2.8	19
14	Torsion Tool: An automated tool for personalising femoral and tibial geometries in OpenSim musculoskeletal models. Journal of Biomechanics, 2021, 125, 110589.	2.1	16
15	ESB Clinical Biomechanics Award 2020: Pelvis and hip movement strategies discriminate typical and pathological femoral growth â€“ Insights gained from a multi-scale mechanobiological modelling framework. Clinical Biomechanics, 2021, 87, 105405.	1.2	12
16	Inertial Sensor-to-Segment Calibration for Accurate 3D Joint Angle Calculation for Use in OpenSim. Sensors, 2022, 22, 3259.	3.8	10