

# Bryce A Killen

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

530  
citations

687363

13  
h-index

940533

16  
g-index

16  
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16  
docs citations

16  
times ranked

479  
citing authors

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