

David Howard

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

535
citations

759233

12
h-index

642732

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28
all docs

28
docs citations

28
times ranked

711
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a modified passive socket system on short-term changes in residuum volume and comfort: A preliminary study in transtibial amputees. <i>Prosthetics and Orthotics International</i> , 2022, 46, 54-60.	1.0	1
2	Simulated Performance of an Energy Storage and Return Prosthetic Ankle Based on Cams and Miniature Hydraulics. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 230-240.	3.2	1
3	Evaluating Reachable Workspace and User Control Over Prehensor Aperture for a Body-Powered Prosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2005-2014.	4.9	10
4	Using a Simple Walking Model to Optimize Transfemoral Prostheses for Prosthetic Limb Stability – A Preliminary Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 3005-3012.	4.9	0
5	An investigation into the effects of, and interaction between, heel height and shoe upper stiffness on plantar pressure and comfort. <i>Footwear Science</i> , 2019, 11, 25-34.	2.1	16
6	Objective measures of rollator user stability and device loading during different walking scenarios. <i>PLoS ONE</i> , 2019, 14, e0210960.	2.5	16
7	Subject-specific finite element modelling of the human foot complex during walking: sensitivity analysis of material properties, boundary and loading conditions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 559-576.	2.8	55
8	Prediction of setup times for an advanced upper limb functional electrical stimulation system. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2018, 5, 205566831880256.	0.9	2
9	A Lagrange-based generalised formulation for the equations of motion of simple walking models. <i>Journal of Biomechanics</i> , 2017, 55, 139-143.	2.1	16
10	Closed-loop control of compression paddle motion to reduce blurring in mammograms. <i>Medical Physics</i> , 2017, 44, 4139-4147.	3.0	1
11	Estimating the material properties of heel pad sub-layers using inverse Finite Element Analysis. <i>Medical Engineering and Physics</i> , 2017, 40, 11-19.	1.7	17
12	Performance of Optimized Prosthetic Ankle Designs That Are Based on a Hydraulic Variable Displacement Actuator (VDA). <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2418-2426.	4.9	7
13	Transtibial amputee gait efficiency: Energy storage and return versus solid ankle cushioned heel prosthetic feet. <i>Journal of Rehabilitation Research and Development</i> , 2016, 53, 1133-1138.	1.6	13
14	A novel method of using accelerometry for upper limb FES control. <i>Medical Engineering and Physics</i> , 2016, 38, 1244-1250.	1.7	6
15	A fast inverse dynamics model of walking for use in optimisation studies. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1201-1209.	1.6	2
16	Crowd-Sourced Amputee Gait Data: A Feasibility Study Using YouTube Videos of Unilateral Trans-Femoral Gait. <i>PLoS ONE</i> , 2016, 11, e0165287.	2.5	3
17	A Forward Dynamic Modelling Investigation of Cause-and-Effect Relationships in Single Support Phase of Human Walking. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-9.	1.3	7
18	Older people's experiences of using tactile paving. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , 2015, 168, 3-10.	0.7	11

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19	The strengths and weaknesses of inverted pendulum models of human walking. <i>Gait and Posture</i> , 2015, 41, 389-394.	1.4	31
20	Biomechanical Analysis of Force Distribution in Human Finger Extensor Mechanisms. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	14
21	A systematic procedure to optimise dose and image quality for the measurement of inter-vertebral angles from lateral spinal projections using Cobb and superimposition methods. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 613-625.	1.0	4
22	Biomechanical Analysis of the Human Finger Extensor Mechanism during Isometric Pressing. <i>PLoS ONE</i> , 2014, 9, e94533.	2.5	23
23	Mathematical Modelling of Biomechanical Interactions between Backpack and Bearer during Load Carriage. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-12.	0.9	2
24	An In Vivo Experimental Validation of a Computational Model of Human Foot. <i>Journal of Bionic Engineering</i> , 2009, 6, 387-397.	5.0	58
25	Whole body inverse dynamics over a complete gait cycle based only on measured kinematics. <i>Journal of Biomechanics</i> , 2008, 41, 2750-2759.	2.1	202
26	Computational models to synthesize human walking. <i>Journal of Bionic Engineering</i> , 2006, 3, 127-138.	5.0	16
27	Artificial Neural Network Prediction Using Accelerometers to Control Upper Limb FES During Reaching and Grasping Following Stroke. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	1