David Howard

List of Publications by Year in descending order

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27	535	759233 12	642732 23
papers	citations	h-index	g-index

28	28	28	711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Whole body inverse dynamics over a complete gait cycle based only on measured kinematics. Journal of Biomechanics, 2008, 41, 2750-2759.	2.1	202
2	An In Vivo Experimental Validation of a Computational Model of Human Foot. Journal of Bionic Engineering, 2009, 6, 387-397.	5.0	58
3	Subject-specific finite element modelling of the human foot complex during walking: sensitivity analysis of material properties, boundary and loading conditions. Biomechanics and Modeling in Mechanobiology, 2018, 17, 559-576.	2.8	55
4	The strengths and weaknesses of inverted pendulum models of human walking. Gait and Posture, 2015, 41, 389-394.	1.4	31
5	Biomechanical Analysis of the Human Finger Extensor Mechanism during Isometric Pressing. PLoS ONE, 2014, 9, e94533.	2.5	23
6	Estimating the material properties of heel pad sub-layers using inverse Finite Element Analysis. Medical Engineering and Physics, 2017, 40, 11-19.	1.7	17
7	Computational models to synthesize human walking. Journal of Bionic Engineering, 2006, 3, 127-138.	5.0	16
8	A Lagrange-based generalised formulation for the equations of motion of simple walking models. Journal of Biomechanics, 2017, 55, 139-143.	2.1	16
9	An investigation into the effects of, and interaction between, heel height and shoe upper stiffness on plantar pressure and comfort. Footwear Science, 2019, 11, 25-34.	2.1	16
10	Objective measures of rollator user stability and device loading during different walking scenarios. PLoS ONE, 2019, 14, e0210960.	2.5	16
11	Biomechanical Analysis of Force Distribution in Human Finger Extensor Mechanisms. BioMed Research International, 2014, 2014, 1-9.	1.9	14
12	Transtibial amputee gait efficiency: Energy storage and return versus solid ankle cushioned heel prosthetic feet. Journal of Rehabilitation Research and Development, 2016, 53, 1133-1138.	1.6	13
13	Older people's experiences of using tactile paving. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2015, 168, 3-10.	0.7	11
14	Evaluating Reachable Workspace and User Control Over Prehensor Aperture for a Body-Powered Prosthesis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2005-2014.	4.9	10
15	A Forward Dynamic Modelling Investigation of Cause-and-Effect Relationships in Single Support Phase of Human Walking. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-9.	1.3	7
16	Performance of Optimized Prosthetic Ankle Designs That Are Based on a Hydraulic Variable Displacement Actuator (VDA). IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2418-2426.	4.9	7
17	A novel method of using accelerometry for upper limb FES control. Medical Engineering and Physics, 2016, 38, 1244-1250.	1.7	6
18	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. Journal of X-Ray Science and Technology, 2014, 22, 613-625.	1.0	4

#	Article	IF	Citations
19	Crowd-Sourced Amputee Gait Data: A Feasibility Study Using YouTube Videos of Unilateral Trans-Femoral Gait. PLoS ONE, 2016, 11, e0165287.	2.5	3
20	Mathematical Modelling of Biomechanical Interactions between Backpack and Bearer during Load Carriage. Journal of Applied Mathematics, 2013, 2013, 1-12.	0.9	2
21	A fast inverse dynamics model of walking for use in optimisation studies. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1201-1209.	1.6	2
22	Prediction of setup times for an advanced upper limb functional electrical stimulation system. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831880256.	0.9	2
23	Closedâ€loop control of compression paddle motion to reduce blurring in mammograms. Medical Physics, 2017, 44, 4139-4147.	3.0	1
24	Artificial Neural Network Prediction Using Accelerometers to Control Upper Limb FES During Reaching and Grasping Following Stroke. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
25	Effects of a modified passive socket system on short-term changes in residuum volume and comfort: A preliminary study in transtibial amputees. Prosthetics and Orthotics International, 2022, 46, 54-60.	1.0	1
26	Simulated Performance of an Energy Storage and Return Prosthetic Ankle Based on Cams and Miniature Hydraulics. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 230-240.	3.2	1
27	Using a Simple Walking Model to Optimize Transfemoral Prostheses for Prosthetic Limb Stabilityâ€"A Preliminary Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3005-3012.	4.9	0