

Philip E Martin

List of Publications by Year in descending order

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46
papers

3,326
citations

159585

30
h-index

214800

47
g-index

47
all docs

47
docs citations

47
times ranked

2836
citing authors

#	ARTICLE	IF	CITATIONS
1	A Model of Human Muscle Energy Expenditure. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 99-111.	1.6	298
2	Ten kilometer performance and predicted velocity at V02max among well-trained male runners. <i>Medicine and Science in Sports and Exercise</i> , 1989, 21, 78-83.	0.4	202
3	Mechanical power and efficiency of level walking with different stride rates. <i>Journal of Experimental Biology</i> , 2007, 210, 3255-3265.	1.7	195
4	The effect of carried loads on the walking patterns of men and women. <i>Ergonomics</i> , 1986, 29, 1191-1202.	2.1	190
5	Lower extremity kinematic and kinetic adaptations in unilateral below-knee amputees during walking. <i>Gait and Posture</i> , 1997, 6, 126-136.	1.4	165
6	Walking symmetry and energy cost in persons with unilateral transtibial amputations: Matching prosthetic and intact limb inertial properties. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 561-568.	0.9	165
7	Effects of age and walking speed on coactivation and cost of walking in healthy adults. <i>Gait and Posture</i> , 2010, 31, 355-359.	1.4	155
8	Mechanical and physiological responses to lower extremity loading during running. <i>Medicine and Science in Sports and Exercise</i> , 1985, 17, 427-433.	0.4	131
9	Characteristic Patterns of Gait in the Healthy Old. <i>Annals of the New York Academy of Sciences</i> , 1988, 515, 18-32.	3.8	114
10	The relationship between cadence and lower extremity EMG in cyclists and noncyclists. <i>Medicine and Science in Sports and Exercise</i> , 1995, 27, 217-225.	0.4	102
11	Estimating segment inertial properties: Comparison of magnetic resonance imaging with existing methods. <i>Journal of Biomechanics</i> , 1990, 23, 1039-1046.	2.1	98
12	Effect of cycling experience, aerobic power, and power output on preferred and most economical cycling cadences. <i>Medicine and Science in Sports and Exercise</i> , 1997, 29, 1225-1232.	0.4	95
13	Manipulations of Leg Mass and Moment of Inertia: Effects on Energy Cost of Walking. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 649-656.	0.4	92
14	The association between cycling experience and preferred and most economical cadences. <i>Medicine and Science in Sports and Exercise</i> , 1993, 25, 1269-1274.	0.4	91
15	The use of magnetic resonance imaging for measuring segment inertial properties. <i>Journal of Biomechanics</i> , 1989, 22, 367-376.	2.1	90
16	Step length and frequency effects on ground reaction forces during walking. <i>Journal of Biomechanics</i> , 1992, 25, 1237-1239.	2.1	89
17	Are variations in running economy in humans associated with ground reaction force characteristics?. <i>European Journal of Applied Physiology</i> , 2001, 84, 438-442.	2.5	80
18	Biomechanical considerations for economical walking and running. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 467-474.	0.4	76

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19	???Leg spring??? characteristics and the aerobic demand of running. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 750-754.	0.4	76
20	Effect of cadence, cycling experience, and aerobic power on delta efficiency during cycling. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 1630-1634.	0.4	70
21	Is a joint moment-based cost function associated with preferred cycling cadence?. <i>Journal of Biomechanics</i> , 2000, 33, 173-180.	2.1	63
22	Muscle fiber type effects on energetically optimal cadences in cycling. <i>Journal of Biomechanics</i> , 2006, 39, 1472-1479.	2.1	55
23	Joint kinetics in unilateral below-knee amputee patients during running. <i>Archives of Physical Medicine and Rehabilitation</i> , 1996, 77, 1279-1285.	0.9	54
24	The effects of short term balance training on the postural control of older adults. <i>Gait and Posture</i> , 1997, 6, 224-236.	1.4	54
25	Effects of Prosthetic Mass Distribution on Metabolic Costs and Walking Symmetry. <i>Journal of Applied Biomechanics</i> , 2013, 29, 317-328.	0.8	54
26	Heel height affects lower extremity frontal plane joint moments during walking. <i>Gait and Posture</i> , 2012, 35, 483-488.	1.4	50
27	Segment interactions within the swing leg during unloaded and loaded running. <i>Journal of Biomechanics</i> , 1990, 23, 529-536.	2.1	43
28	The relationship between smoothness and economy during walking. <i>Biological Cybernetics</i> , 1993, 69, 213-218.	1.3	42
29	Perceived exertion and the preferred cycling cadence. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 942-948.	0.4	35
30	Walking patterns change rapidly following asymmetrical lower extremity loading. <i>Human Movement Science</i> , 2007, 26, 412-425.	1.4	32
31	Electromyographic analysis of bow string release in highly skilled archers. <i>Journal of Sports Sciences</i> , 1990, 8, 215-221.	2.0	28
32	Testing the Planar Assumption during Ergometer Cycling. <i>Journal of Applied Biomechanics</i> , 2001, 17, 55-62.	0.8	28
33	Longitudinal profiles of oxygen uptake during treadmill walking in able-bodied children: the locomotion energy and growth study. <i>Gait and Posture</i> , 2002, 15, 230-235.	1.4	25
34	The Effect of Carried Loads on the Combative Movement Performance of Men and Women. <i>Military Medicine</i> , 1985, 150, 357-362.	0.8	21
35	Effects of age and physical activity status on redistribution of joint work during walking. <i>Gait and Posture</i> , 2016, 50, 131-136.	1.4	21
36	Effects of age, speed, and step length on lower extremity net joint moments and powers during walking. <i>Human Movement Science</i> , 2020, 71, 102611.	1.4	21

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37	Short and Longer Term Changes in Amputee Walking Patterns Due to Increased Prosthesis Inertia. <i>Journal of Prosthetics and Orthotics</i> , 2011, 23, 114-123.	0.4	16
38	Oscillation and Reaction Board Techniques for Estimating Inertial Properties of a Below-knee Prosthesis. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	16
39	Perceived exertion and the preferred cycling cadence. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 942-948.	0.4	16
40	Prediction of the aerobic demand of walking in children. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 2097-2102.	0.4	14
41	A general model for estimating lower extremity inertial properties of individuals with transtibial amputation. <i>Journal of Biomechanics</i> , 2017, 54, 44-48.	2.1	14
42	Lower extremity mechanical work during stance phase of running partially explains interindividual variability of metabolic power. <i>European Journal of Applied Physiology</i> , 2011, 111, 1777-1785.	2.5	13
43	Longitudinal stratification of gait economy in young boys and girls: the locomotion energy and growth study. <i>European Journal of Applied Physiology</i> , 2004, 91, 30-34.	2.5	12
44	Trends in Interdisciplinary and Integrative Graduate Training: An NSF IGERT Example. <i>Quest</i> , 2003, 55, 86-94.	1.2	10
45	Asymmetrical pedaling patterns in Parkinson's disease patients. <i>Clinical Biomechanics</i> , 2014, 29, 1089-1094.	1.2	8
46	Asymmetrical loading affects intersegmental dynamics during the swing phase of walking. <i>Human Movement Science</i> , 2013, 32, 652-667.	1.4	4