

Michael S Orendurff

List of Publications by Year in descending order

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56
papers

3,215
citations

172207

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168136

53
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docs citations

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times ranked

2601
citing authors

#	ARTICLE	IF	CITATIONS
1	The relationship between static and dynamic foot posture and running biomechanics: A systematic review and meta-analysis. <i>Gait and Posture</i> , 2019, 72, 109-122.	0.6	34
2	Step Activity After Surgical Treatment of Ankle Arthritis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 1177-1184.	1.4	18
3	The effects of alignment of an articulated ankle-foot orthosis on lower limb joint kinematics and kinetics during gait in individuals post-stroke. <i>Journal of Biomechanics</i> , 2019, 83, 57-64.	0.9	11
4	A little bit faster: Lower extremity joint kinematics and kinetics as recreational runners achieve faster speeds. <i>Journal of Biomechanics</i> , 2018, 71, 167-175.	0.9	44
5	A three-year prospective comparative gait study between patients with ankle arthrodesis and arthroplasty. <i>Clinical Biomechanics</i> , 2018, 54, 42-53.	0.5	22
6	Effect of plantarflexion resistance of an ankle-foot orthosis on ankle and knee joint power during gait in individuals post-stroke. <i>Journal of Biomechanics</i> , 2018, 75, 176-180.	0.9	8
7	The effect of transverse prosthetic alignment changes on socket reaction moments during gait in individuals with transtibial amputation. <i>Gait and Posture</i> , 2018, 65, 8-14.	0.6	12
8	The effects of an articulated ankle-foot orthosis with resistance-adjustable joints on lower limb joint kinematics and kinetics during gait in individuals post-stroke. <i>Clinical Biomechanics</i> , 2018, 59, 47-55.	0.5	7
9	Contribution of ankle-foot orthosis moment in regulating ankle and knee motions during gait in individuals post-stroke. <i>Clinical Biomechanics</i> , 2017, 45, 9-13.	0.5	13
10	An articulated ankle-foot orthosis with adjustable plantarflexion resistance, dorsiflexion resistance and alignment: A pilot study on mechanical properties and effects on stroke hemiparetic gait. <i>Medical Engineering and Physics</i> , 2017, 44, 94-101.	0.8	35
11	Comparison of Treatment Outcomes of Arthrodesis and Two Generations of Ankle Replacement Implants. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1792-1800.	1.4	52
12	Comparison of a computerized algorithm and prosthetists' judgment in rating functional levels based on daily step activity in transtibial amputees. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2016, 3, 205566831667053.	0.6	4
13	Economic Evaluations of Interventions For Transtibial Amputees: A Scoping Review of Comparative Studies. <i>Technology and Innovation</i> , 2016, 18, 85-98.	0.2	18
14	Prosthetic interventions for people with transtibial amputation: Systematic review and meta-analysis of high-quality prospective literature and systematic reviews. <i>Journal of Rehabilitation Research and Development</i> , 2016, 53, 157-184.	1.6	46
15	Predicting Walking Ability Following Lower Limb Amputation: An Updated Systematic Literature Review. <i>Technology and Innovation</i> , 2016, 18, 125-137.	0.2	59
16	Socket reaction moments in transtibial prostheses during walking at clinically perceived optimal alignment. <i>Prosthetics and Orthotics International</i> , 2016, 40, 503-508.	0.5	10
17	Dynamic alignment of transtibial prostheses through visualization of socket reaction moments. <i>Prosthetics and Orthotics International</i> , 2015, 39, 512-516.	0.5	18
18	Biomechanical characteristics, patient preference and activity level with different prosthetic feet: A randomized double blind trial with laboratory and community testing. <i>Journal of Biomechanics</i> , 2015, 48, 146-152.	0.9	64

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19	An Architecture for Direct Measurement of Transfemoral Prosthesis Gait Beyond the Gait Laboratory Setting. , 2014, , .		0
20	Effect of prosthetic alignment changes on socket reaction moment impulse during walking in transtibial amputees. Journal of Biomechanics, 2014, 47, 1315-1323.	0.9	33
21	Individual responses to alignment perturbations in socket reaction moments while walking in transtibial prostheses. Clinical Biomechanics, 2014, 29, 590-594.	0.5	14
22	Effect of alignment changes on socket reaction moments while walking in transtibial prostheses with energy storage and return feet. Clinical Biomechanics, 2014, 29, 47-56.	0.5	33
23	Effect of alignment changes on socket reaction moments during gait in transfemoral and knee-disarticulation prostheses: Case series. Journal of Biomechanics, 2013, 46, 2539-2545.	0.9	28
24	Effect of alignment changes on sagittal and coronal socket reaction moment interactions in transtibial prostheses. Journal of Biomechanics, 2013, 46, 1343-1350.	0.9	30
25	Influence of malalignment on socket reaction moments during gait in amputees with transtibial prostheses. Gait and Posture, 2013, 37, 620-626.	0.6	65
26	Literature Review of Published Research Investigating Microprocessor-Controlled Prosthetic Knees. Journal of Prosthetics and Orthotics, 2013, 25, 41-46.	0.2	10
27	Comparative Gait Analysis of Ankle Arthrodesis and Arthroplasty: Initial Findings of a Prospective Study. Foot and Ankle International, 2012, 33, 282-289.	1.1	92
28	Effect of transtibial prosthesis alignment changes on out-of-plane socket reaction moments during walking in amputees. Journal of Biomechanics, 2012, 45, 2603-2609.	0.9	29
29	The effects of a controlled energy storage and return prototype prosthetic foot on transtibial amputee ambulation. Human Movement Science, 2012, 31, 918-931.	0.6	80
30	Perception of socket alignment perturbations in amputees with transtibial prostheses. Journal of Rehabilitation Research and Development, 2012, 49, 843.	1.6	38
31	Comparison of transtibial amputee and non-amputee biomechanics during a common turning task. Gait and Posture, 2011, 33, 41-47.	0.6	44
32	Systematic Variation of Prosthetic Foot Spring Affects Center-of-Mass Mechanics and Metabolic Cost During Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 411-419.	2.7	115
33	The Relationship Between Lumbar Spine Kinematics during Gait and Low-Back Pain in Transfemoral Amputees. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 635-643.	0.7	71
34	Intensity and Duration of Intermittent Exercise and Recovery During a Soccer Match. Journal of Strength and Conditioning Research, 2010, 24, 2683-2692.	1.0	28
35	Local dynamic stability of amputees wearing a torsion adapter compared to a rigid adapter during straight-line and turning gait. Journal of Biomechanics, 2010, 43, 2798-2803.	0.9	23
36	Biomechanical Analysis of Stresses to the Fifth Metatarsal Bone During Sports Maneuvers: Implications for Fifth Metatarsal Fractures. Physician and Sportsmedicine, 2009, 37, 87-92.	1.0	35

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37	Low-Back Pain in Transfemoral Amputees. American Journal of Physical Medicine and Rehabilitation, 2009, 88, 108-113.	0.7	26
38	Local dynamic stability in turning and straight-line gait. Journal of Biomechanics, 2008, 41, 1486-1493.	0.9	64
39	Ground reaction forces and impulses during a transient turning maneuver. Journal of Biomechanics, 2008, 41, 3090-3093.	0.9	73
40	Kinetic mechanisms to alter walking speed. Gait and Posture, 2008, 27, 603-610.	0.6	52
41	Regional Foot Pressure during Running, Cutting, Jumping, and Landing. American Journal of Sports Medicine, 2008, 36, 566-571.	1.9	78
42	How humans walk: Bout duration, steps per bout, and rest duration. Journal of Rehabilitation Research and Development, 2008, 45, 1077-1090.	1.6	229
43	Parameter Estimation of the Human Ankle in the Transverse Plane During the Initiation of a Turn. , 2007, , 237.		0
44	Video task analysis of turning during activities of daily living. Gait and Posture, 2007, 25, 289-294.	0.6	350
45	Parameter Estimation of the Human Ankle in the Transverse Plane during Straight Walking. , 2007, , .		1
46	Rotating horizontal ground reaction forces to the body path of progression. Journal of Biomechanics, 2007, 40, 3527-3532.	0.9	29
47	Mechanical Behavior of the Human Ankle in the Transverse Plane While Turning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 552-559.	2.7	16
48	Kinematic and kinetic comparisons of transfemoral amputee gait using C-Leg and Mauch SNS prosthetic knees. Journal of Rehabilitation Research and Development, 2006, 43, 857.	1.6	222
49	Prosthetic Intervention Effects on Activity of Lower-Extremity Amputees. Archives of Physical Medicine and Rehabilitation, 2006, 87, 717-722.	0.5	143
50	A comparison of gastrocnemius muscle-tendon unit length during gait using anatomic, cadaveric and MRI models. Gait and Posture, 2006, 23, 112-117.	0.6	18
51	The kinematics and kinetics of turning: limb asymmetries associated with walking a circular path. Gait and Posture, 2006, 23, 106-111.	0.6	204
52	Joint rotation torques during a common turning task. Gait and Posture, 2006, 24, S201-S203.	0.6	7
53	Gait efficiency using the C-Leg. Journal of Rehabilitation Research and Development, 2006, 43, 239.	1.6	103
54	Triceps surae force, length and velocity during walking. Gait and Posture, 2005, 21, 157-163.	0.6	32

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55	The effect of walking speed on center of mass displacement. Journal of Rehabilitation Research and Development, 2004, 41, 829.	1.6	262
56	Length and force of the gastrocnemius and soleus during gait following tendo Achilles lengthenings in children with equinus. Gait and Posture, 2002, 15, 130-135.	0.6	62