

Brooke A Slavens

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

478
citations

840776

11
h-index

752698

20
g-index

47
all docs

47
docs citations

47
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	An upper extremity kinematic model for evaluation of hemiparetic stroke. <i>Journal of Biomechanics</i> , 2006, 39, 681-688.	2.1	105
2	Cognitive Demands Influence Lower Extremity Mechanics During a Drop Vertical Jump Task in Female Athletes. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 381-387.	3.5	47
3	Biomechanical model for evaluation of pediatric upper extremity joint dynamics during wheelchair mobility. <i>Journal of Biomechanics</i> , 2014, 47, 269-276.	2.1	38
4	An upper extremity inverse dynamics model for pediatric Lofstrand crutch-assisted gait. <i>Journal of Biomechanics</i> , 2011, 44, 2162-2167.	2.1	33
5	Upper extremity inverse dynamics model for crutch-assisted gait assessment. <i>Journal of Biomechanics</i> , 2010, 43, 2026-2031.	2.1	31
6	Upper extremity dynamics during Lofstrand crutch-assisted gait in children with myelomeningocele. <i>Gait and Posture</i> , 2009, 30, 511-517.	1.4	26
7	Divided attention during cutting influences lower extremity mechanics in female athletes. <i>Sports Biomechanics</i> , 2019, 18, 264-276.	1.6	26
8	Criterion and Construct Validity of Prosthesis-Integrated Measurement of Joint Moment Data in Persons With Transtibial Amputation. <i>Journal of Applied Biomechanics</i> , 2014, 30, 431-438.	0.8	16
9	The Biomechanics of Upper Extremity Kinematic and Kinetic Modeling: Applications to Rehabilitation Engineering. <i>Critical Reviews in Biomedical Engineering</i> , 2008, 36, 93-125.	0.9	14
10	Biomechanics of Pediatric Manual Wheelchair Mobility. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 137.	4.1	14
11	Upper Extremity Dynamics During Lofstrand Crutch-Assisted Gait in Children With Myelomeningocele. <i>Journal of Spinal Cord Medicine</i> , 2007, 30, S165-S171.	1.4	13
12	Evaluation of Pediatric Manual Wheelchair Mobility Using Advanced Biomechanical Methods. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	11
13	Motor unit number index examination in dominant and non-dominant hand muscles. <i>Laterality</i> , 2015, 20, 699-710.	1.0	11
14	Effects of physical exertion on trans-tibial prosthesis users'™ ability to accommodate alignment perturbations. <i>Prosthetics and Orthotics International</i> , 2016, 40, 75-82.	1.0	9
15	Assessment of a markerless motion analysis system for manual wheelchair application. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 96.	4.6	9
16	Assessment of Kinematics and Electromyography Following Arthroscopic Single-Tendon Rotator Cuff Repair. <i>PM and R</i> , 2017, 9, 464-476.	1.6	7
17	Motion Analysis of the Upper Extremities During Lofstrand Crutch-Assisted Gait in Children with Orthopaedic Disabilities. <i>Journal of Experimental and Clinical Medicine</i> , 2011, 3, 218-227.	0.2	6
18	Upper extremity wheelchair kinematics in children with Spinal Cord Injury. , 2011, 2011, 8158-61.		6

#	ARTICLE	IF	CITATIONS
19	Shoulder complex kinematics pre- and post- rotator cuff repair. Journal of Electromyography and Kinesiology, 2022, 62, 102331.	1.7	6
20	Upper extremity biomechanical model of crutch-assisted gait in children. , 2009, 2009, 7164-7.		5
21	Leg Laterality Differences in Persons with Bilateral Transtibial Amputation. Journal of Prosthetics and Orthotics, 2013, 25, 168-176.	0.4	5
22	Considering Propulsion Pattern in Therapeutic Outcomes for Children Who Use Manual Wheelchairs. Pediatric Physical Therapy, 2019, 31, 360-368.	0.6	5
23	The influence of age and fall history on single transition step kinematics. Clinical Biomechanics, 2021, 89, 105456.	1.2	5
24	Evaluation of shoulder joint kinematics and muscle activity during geared and standard manual wheelchair mobility. , 2016, 2016, 6162-6165.		4
25	A comparison of glenohumeral joint kinematics and muscle activation during standard and geared manual wheelchair mobility. Medical Engineering and Physics, 2019, 70, 1-8.	1.7	4
26	Design and Biomechanical Evaluation Methodology of Pneumatic Ergonomic Crutch. , 2017, , .		4
27	Glenohumeral joint dynamics and shoulder muscle activity during geared manual wheelchair propulsion on carpeted floor in individuals with spinal cord injury. Journal of Electromyography and Kinesiology, 2019, 62, 102318.	1.7	3
28	A Dynamic Model of the Upper Extremities for Quantitative Assessment of Lofstrand Crutch-Assisted Gait. , 2006, 2006, 1525-8.		2
29	Upper extremity biomechanics of children with spinal cord injury during wheelchair mobility. , 2014, 2014, 4338-41.		2
30	Use of a Dynamic Balance System to Quantify Postural Steadiness and Stability of Individuals with Lower-Limb Amputation: A Pilot Study. Journal of Prosthetics and Orthotics, 2018, 30, 31-38.	0.4	2
31	The Influence of Sex on Upper Extremity Joint Dynamics in Pediatric Manual Wheelchair Users With Spinal Cord Injury. Topics in Spinal Cord Injury Rehabilitation, 2021, 27, 26-37.	1.8	2
32	Upper extremity kinetics of children with myelomeningocele during Lofstrand crutch-assisted gait. , 2008, 2008, 4583-6.		1
33	Evaluation of a wrist orthosis on lofstrand crutch-assisted gait. , 2016, 2016, 5042-5045.		1
34	Validation of an Instrumented Wheelchair Hand Rim. , 2017, , .		1
35	The Influence of Sex on Upper Extremity Joint Dynamics in Pediatric Manual Wheelchair Users With Spinal Cord Injury. Topics in Spinal Cord Injury Rehabilitation, 2021, 27, 26-37.	1.8	1
36	Effect of Rotation Sequence on Thoracohumeral Joint Kinematics during Various Shoulder Postures. , 2021, 2021, 4912-4915.		1

#	ARTICLE	IF	CITATIONS
37	Reliability of 3D Depth Motion Sensors for Capturing Upper Body Motions and Assessing the Quality of Wheelchair Transfers. <i>Sensors</i> , 2022, 22, 4977.	3.8	1
38	Finite element analysis of forearm crutches during gait in children with myelomeningocele. , 2009, 2009, 5271-73.		0
39	Presentation 5: Crutch-Assisted Joint Loads During Gait in Children with Myelomeningocele. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, e10.	0.9	0
40	Upper extremity biomechanical model for evaluation of pediatric joint demands during wheelchair mobility. , 2012, 2012, 4788-91.		0
41	Poster 44: Biomechanical Analysis of Wheelchair Athletes with Paraplegia during Cross-training Exercises. <i>PM and R</i> , 2018, 10, S22-S23.	1.6	0
42	American Academy of Spinal Cord Injury Professionals ASCIP 2018 Educational Conference & Expo Stronger Together: Passion, Purpose and Possibilities in SCI/D. <i>Journal of Spinal Cord Medicine</i> , 2018, 41, 599-622.	1.4	0
43	Biomechanical analysis of wheelchair athletes with paraplegia during cross-training exercises. <i>Journal of Spinal Cord Medicine</i> , 2021, , 1-16.	1.4	0
44	Comparison of Pre and Post-Operative Thoracohumeral Kinematics between Single and Multi-Tendon Rotator Cuff Tears. <i>Archives of Physical Medicine and Rehabilitation</i> , 2021, 102, e72.	0.9	0
45	Finite element analysis of the forearm crutch during reciprocal and swing-through gait - biomed 2009. <i>Biomedical Sciences Instrumentation</i> , 2009, 45, 310-5.	0.2	0
46	Biological Sex-Related Differences in Glenohumeral Dynamics Variability during Pediatric Manual Wheelchair Propulsion. , 2021, 2021, 4619-4622.		0