

Alicia M Koontz

List of Publications by Year in descending order

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71
papers

2,526
citations

236833

25
h-index

197736

49
g-index

72
all docs

72
docs citations

72
times ranked

900
citing authors

#	ARTICLE	IF	CITATIONS
1	Propulsion patterns and pushrim biomechanics in manual wheelchair propulsion. Archives of Physical Medicine and Rehabilitation, 2002, 83, 718-723.	0.5	235
2	Wheelchair pushrim kinetics: Body weight and median nerve function. Archives of Physical Medicine and Rehabilitation, 1999, 80, 910-915.	0.5	229
3	Shoulder joint kinetics and pathology in manual wheelchair users. Clinical Biomechanics, 2006, 21, 781-789.	0.5	215
4	Manual wheelchair pushrim biomechanics and axle position. Archives of Physical Medicine and Rehabilitation, 2000, 81, 608-613.	0.5	187
5	Pushrim biomechanics and injury prevention in spinal cord injury: Recommendations based on CULP-SCI investigations. Journal of Rehabilitation Research and Development, 2004, 42, 9.	1.6	111
6	Shoulder magnetic resonance imaging abnormalities, wheelchair propulsion, and gender ¹¹ No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the authors(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1615-1620.	0.5	106
7	Shoulder Biomechanics During the Push Phase of Wheelchair Propulsion: A Multisite Study of Persons With Paraplegia. Archives of Physical Medicine and Rehabilitation, 2008, 89, 667-676.	0.5	102
8	A kinetic analysis of manual wheelchair propulsion during start-up on select indoor and outdoor surfaces. Journal of Rehabilitation Research and Development, 2005, 42, 447.	1.6	98
9	Relation between median and ulnar nerve function and wrist kinematics during wheelchair propulsion. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1141-1145.	0.5	89
10	Impact of Surface Type, Wheelchair Weight, and Axle Position on Wheelchair Propulsion by Novice Older Adults. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1076-1083.	0.5	78
11	Biomechanics and Strength of Manual Wheelchair Users. Journal of Spinal Cord Medicine, 2005, 28, 407-414.	0.7	59
12	Engineering Better Wheelchairs to Enhance Community Participation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 438-455.	2.7	59
13	Shoulder kinematics and kinetics during two speeds of wheelchair propulsion. Journal of Rehabilitation Research and Development, 2002, 39, 635-49.	1.6	56
14	Manual Wheelchair Propulsion Patterns on Natural Surfaces During Start-Up Propulsion. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1916-1923.	0.5	46
15	Surface electromyography activity of trunk muscles during wheelchair propulsion. Clinical Biomechanics, 2006, 21, 1032-1041.	0.5	42
16	Range Of Motion And Stroke Frequency Differences Between Manual Wheelchair Propulsion And Pushrim-Activated Power-Assisted Wheelchair Propulsion. Journal of Spinal Cord Medicine, 2003, 26, 135-140.	0.7	38
17	Design Features That Affect the Maneuverability of Wheelchairs and Scooters. Archives of Physical Medicine and Rehabilitation, 2010, 91, 759-764.	0.5	38
18	Basic Psychometric Properties of the Transfer Assessment Instrument (Version 3.0). Archives of Physical Medicine and Rehabilitation, 2013, 94, 2456-2464.	0.5	37

#	ARTICLE	IF	CITATIONS
19	Biomechanics of Sitting Pivot Transfers Among Individuals with a Spinal Cord Injury: A Review of the Current Knowledge. Topics in Spinal Cord Injury Rehabilitation, 2009, 15, 33-58.	0.8	37
20	Reliability and Validity Analysis of the Transfer Assessment Instrument. Archives of Physical Medicine and Rehabilitation, 2011, 92, 499-508.	0.5	31
21	Virtual Reality and Computer-Enhanced Training Applied to Wheeled Mobility: An Overview of Work in Pittsburgh. Assistive Technology, 2005, 17, 159-170.	1.2	30
22	Upper limb kinetic analysis of three sitting pivot wheelchair transfer techniques. Clinical Biomechanics, 2011, 26, 923-929.	0.5	30
23	The Relationship between Independent Transfer Skills and Upper Limb Kinetics in Wheelchair Users. BioMed Research International, 2014, 2014, 1-12.	0.9	29
24	Filter frequency selection for manual wheelchair biomechanics. Journal of Rehabilitation Research and Development, 2002, 39, 323-36.	1.6	29
25	Manual wheelchair pushrim dynamics in people with multiple sclerosis ¹ No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 935-942.	0.5	28
26	Multisite comparison of wheelchair propulsion kinetics in persons with paraplegia. Journal of Rehabilitation Research and Development, 2007, 44, 449.	1.6	26
27	Biomechanical Analysis of Functional Electrical Stimulation on Trunk Musculature During Wheelchair Propulsion. Neurorehabilitation and Neural Repair, 2009, 23, 717-725.	1.4	25
28	Person transfer assist systems: a literature review. Disability and Rehabilitation: Assistive Technology, 2021, 16, 270-279.	1.3	23
29	Effect of Backrest Height on Wheelchair Propulsion Biomechanics for Level and Uphill Conditions. Archives of Physical Medicine and Rehabilitation, 2012, 93, 654-659.	0.5	22
30	Does upper-limb muscular demand differ between preferred and nonpreferred sitting pivot transfer directions in individuals with a spinal cord injury?. Journal of Rehabilitation Research and Development, 2009, 46, 1099.	1.6	19
31	The Impact of Transfer Setup on the Performance of Independent Wheelchair Transfers. Human Factors, 2013, 55, 567-580.	2.1	18
32	Upper limb joint kinetics of three sitting pivot wheelchair transfer techniques in individuals with spinal cord injury. Journal of Spinal Cord Medicine, 2015, 38, 485-497.	0.7	17
33	Innovation in Transfer Assist Technologies for Persons with Severe Disabilities and Their Caregivers. IEEE Potentials, 2017, 36, 34-41.	0.2	17
34	Comparison Between Overground and Dynamometer Manual Wheelchair Propulsion. Journal of Applied Biomechanics, 2012, 28, 412-419.	0.3	16
35	Effects of Repetitive Shoulder Activity on the Subacromial Space in Manual Wheelchair Users. BioMed Research International, 2014, 2014, 1-9.	0.9	16
36	Immediate Biomechanical Implications of Transfer Component Skills Training on Independent Wheelchair Transfers. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1785-1792.	0.5	16

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37	Investigation of the Performance of an Ergonomic Handrim as a Pain-Relieving Intervention for Manual Wheelchair Users. <i>Assistive Technology</i> , 2006, 18, 123-145.	1.2	15
38	Ultrasonographic Median Nerve Changes After Repeated Wheelchair Transfers in Persons With Paraplegia: Relationship With Subject Characteristics and Transfer Skills. <i>PM and R</i> , 2016, 8, 305-313.	0.9	15
39	Assessment of Usability and Task Load Demand Using a Robot-Assisted Transfer Device Compared With a Hoyer Advance for Dependent Wheelchair Transfers. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2019, 98, 729-734.	0.7	15
40	Transfer component skill deficit rates among Veterans who use wheelchairs. <i>Journal of Rehabilitation Research and Development</i> , 2016, 53, 279-294.	1.6	14
41	Manual wheeled mobility – current and future developments from the human engineering research laboratories. <i>Disability and Rehabilitation</i> , 2010, 32, 2210-2221.	0.9	13
42	An expert review of the scientific literature on independent wheelchair transfers. <i>Disability and Rehabilitation: Assistive Technology</i> , 2012, 7, 20-29.	1.3	13
43	Identifying research needs for wheelchair transfers in the built environment. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 121-127.	1.3	13
44	Feasibility, acceptability, and preliminary efficacy of a handcycling high-intensity interval training program for individuals with spinal cord injury. <i>Spinal Cord</i> , 2021, 59, 34-43.	0.9	13
45	Development of custom measurement system for biomechanical evaluation of independent wheelchair transfers. <i>Journal of Rehabilitation Research and Development</i> , 2011, 48, 1015.	1.6	12
46	Ultrasonographic measurement of the acromiohumeral distance in spinal cord injury: Reliability and effects of shoulder positioning. <i>Journal of Spinal Cord Medicine</i> , 2015, 38, 700-708.	0.7	12
47	An autoregressive modeling approach to analyzing wheelchair propulsion forces. <i>Medical Engineering and Physics</i> , 2001, 23, 285-291.	0.8	11
48	Upper-Limb Joint Power and Its Distribution in Spinal Cord Injured Wheelchair Users: Steady-State Self-Selected Speed Versus Maximal Acceleration Trials. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 456-463.	0.5	11
49	Upper-limb biomechanical analysis of wheelchair transfer techniques in two toilet configurations. <i>Clinical Biomechanics</i> , 2018, 55, 79-85.	0.5	10
50	Accessibility facilitators and barriers affecting independent wheelchair transfers in the community. <i>Disability and Rehabilitation: Assistive Technology</i> , 2021, 16, 741-748.	1.3	10
51	Feasibility study of using a Microsoft Kinect for virtual coaching of wheelchair transfer techniques. <i>Biomedizinische Technik</i> , 2017, 62, 307-313.	0.9	9
52	Wheeled Mobility. <i>BioMed Research International</i> , 2015, 2015, 1-2.	0.9	8
53	Cross-Sectional Investigation of Acute Changes in Ultrasonographic Markers for Biceps and Supraspinatus Tendon Degeneration After Repeated Wheelchair Transfers in People With Spinal Cord Injury. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2016, 95, 818-830.	0.7	8
54	Assessment of Wheelchair Propulsion Performance in an Immersive Virtual Reality Simulator. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8016.	1.2	8

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55	Scapular range of motion in a quasi-wheelchair push. International Journal of Industrial Ergonomics, 2004, 33, 237-248.	1.5	7
56	Start-up propulsion biomechanics changes with fatiguing activity in persons with spinal cord injury. Journal of Spinal Cord Medicine, 2020, 43, 476-484.	0.7	7
57	Usability and task load comparison between a robotic assisted transfer device and a mechanical floor lift during caregiver assisted transfers on a care recipient. Disability and Rehabilitation: Assistive Technology, 2020, , 1-7.	1.3	7
58	Evaluation of rolling resistance in manual wheelchair wheels and casters using drum-based testing. Disability and Rehabilitation: Assistive Technology, 2020, , 1-12.	1.3	6
59	Automating the Clinical Assessment of Independent Wheelchair Sitting Pivot Transfer Techniques. Topics in Spinal Cord Injury Rehabilitation, 2021, 27, 1-11.	0.8	6
60	Effects of grab bars and backrests on independent wheelchair transfer performance and technique. Physiotherapy Research International, 2019, 24, e1758.	0.7	5
61	Preliminary evaluation of an automated robotic transfer assist device in the home setting. Disability and Rehabilitation: Assistive Technology, 2021, , 1-8.	1.3	5
62	Psychological strategies of Veterans and service members who participate in organized sports. Journal of Military, Veteran and Family Health, 2017, 3, 42-52.	0.3	4
63	An ergonomic comparison of three different patient transport chairs in a simulated hospital environment. Applied Ergonomics, 2020, 88, 103172.	1.7	4
64	Assessment of Muscle Activation of Caregivers Performing Dependent Transfers With a Novel Robotic-Assisted Transfer Device Compared With the Hoyer Advance. American Journal of Physical Medicine and Rehabilitation, 2021, 100, 885-894.	0.7	4
65	A high prevalence of manual wheelchair rear-wheel misalignment could be leading to increased risk of repetitive strain injuries. Disability and Rehabilitation: Assistive Technology, 2023, 18, 544-552.	1.3	2
66	Effect of a Wheelie Training Method With the Front Wheels on a Ramp in Novice Able-Bodied Participants: A Randomized Controlled Trial. Assistive Technology, 2015, 27, 121-127.	1.2	1
67	The American Student Placements in Rehabilitation Engineering Program (ASPIRE). Disability and Rehabilitation, 2020, 42, 2821-2827.	0.9	1
68	Rehabilitation professional and user evaluation of an integrated push-pull lever drive system for wheelchair mobility. Assistive Technology, 2020, , 1-9.	1.2	1
69	Dynamic Three-Dimensional Ultrasound to Evaluate Scapular Movement Among Manual Wheelchair Users and Healthy Controls. Topics in Spinal Cord Injury Rehabilitation, 2015, 21, 303-312.	0.8	1
70	Comparison of trunk mechanics and spatiotemporal outcomes in caregivers using a robotic assisted transfer device and a mobile floor lift. Journal of Spinal Cord Medicine, 2021, , 1-8.	0.7	0
71	A Clinical and Ergonomic Comparison Between a Robotic Assisted Transfer Device and a Mobile Floor Lift During Caregiver Assisted Wheelchair Transfers. American Journal of Physical Medicine and Rehabilitation, 2021, Publish Ahead of Print, .	0.7	0