

Brad E. Dicianno

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

2,186
citations

26
h-index

40
g-index

136
ext. papers

2,706
ext. citations

2.5
avg, IF

5.05
L-index

#	Paper	IF	Citations
121	Mobile Health to Support Community-Integration of Individuals With Disabilities Using iMHere 2.0: Focus Group Study.. <i>JMIR Human Factors</i> , 2022 , 9, e31376	2.5	0
120	User-Centered Design to Enhance mHealth Systems for Individuals With Dexterity Impairments: Accessibility and Usability Study.. <i>JMIR Human Factors</i> , 2022 , 9, e23794	2.5	
119	Investigation of factors from assistive technology professionals that impact timeliness of wheelchair service delivery: a cross-sectional study.. <i>Disability and Rehabilitation: Assistive Technology</i> , 2022 , 1-5	1.8	0
118	Shared Control of a Powered Exoskeleton and Functional Electrical Stimulation Using Iterative Learning. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 711388	2.8	2
117	Development of an Electronic Exchange of Medical Documentation for Power Mobility Devices. <i>Applied Clinical Informatics</i> , 2021 , 12, 348-354	3.1	
116	The voice of the consumer: A survey of consumer priorities to inform knowledge translation among Veterans who use mobility assistive technology. <i>Journal of Military, Veteran and Family Health</i> , 2021 , 7, 26-39	0.7	1
115	A Tube-based Model Predictive Control Method to Regulate a Knee Joint with Functional Electrical Stimulation and Electric Motor Assist.. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 2180-2191	4.8	4
114	Stakeholder perspectives on research and development priorities for mobility assistive-technology: a literature review. <i>Disability and Rehabilitation: Assistive Technology</i> , 2021 , 16, 362-376	1.8	10
113	Systematic review: Automated vehicles and services for people with disabilities. <i>Neuroscience Letters</i> , 2021 , 761, 136103	3.3	4
112	Effect of the Assistive Technology Professional on the Provision of Mobility Assistive Equipment. <i>Archives of Physical Medicine and Rehabilitation</i> , 2021 , 102, 1895-1901	2.8	2
111	Mini-review: Rehabilitation engineering: Research priorities and trends. <i>Neuroscience Letters</i> , 2021 , 764, 136207	3.3	1
110	Neurosurgical procedures for children with myelomeningocele after fetal or postnatal surgery: a comparative effectiveness study. <i>Developmental Medicine and Child Neurology</i> , 2021 , 63, 1294-1301	3.3	1
109	Primary care providers need education and resources to provide optimal care for children and adults with spina bifida.. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2021 , 14, 681-689	1.4	0
108	Using Person-Specific Muscle Fatigue Characteristics to Optimally Allocate Control in a Hybrid Exoskeleton - Preliminary Results. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 226-235	3.1	8
107	Factors Associated With Ambulation in Myelomeningocele: A Longitudinal Study From the National Spina Bifida Patient Registry. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2020 , 99, 586-594	2.6	3
106	Neurogenic bowel treatments and continence outcomes in children and adults with myelomeningocele. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2020 , 13, 685-693	1.4	3
105	Functional Mobility Outcomes in Telehealth and In-Person Assessments for Wheeled Mobility Devices. <i>International Journal of Telerehabilitation</i> , 2020 , 12, 27-34	4.5	0

104	Veteran and Provider Satisfaction with a Home-Based Telerehabilitation Assessment for Wheelchair Seating and Mobility. <i>International Journal of Telerehabilitation</i> , 2020 , 12, 3-12	4.5	0
103	Philosophy of care delivery for spina bifida. <i>Disability and Health Journal</i> , 2020 , 13, 100883	4.2	5
102	Usability evaluation of attitude control for a robotic wheelchair for tip mitigation in outdoor environments. <i>Medical Engineering and Physics</i> , 2020 , 82, 86-96	2.4	3
101	Relationship Between Motor Level and Wheelchair Transfer Ability in Spina Bifida: A Study From the National Spina Bifida Patient Registry. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020 , 101, 1953-1960	2.8	2
100	Type and frequency of wheelchair repairs and resulting adverse consequences among veteran wheelchair users. <i>Disability and Rehabilitation: Assistive Technology</i> , 2020 , 1-7	1.8	6
99	Scientific methodology of the development of the Guidelines for the Care of People with Spina Bifida: An initiative of the Spina Bifida Association. <i>Disability and Health Journal</i> , 2020 , 13, 100816	4.2	24
98	Survey of U.S. adults with spina bifida. <i>Disability and Health Journal</i> , 2020 , 13, 100833	4.2	8
97	Differences in Length of Stay and Costs Between Comparable Hospitalizations of Patients With Spina Bifida With or Without Pressure Injuries. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019 , 100, 1475-1481	2.8	4
96	Mobile Health Apps Are Used for Many Rehabilitation Purposes. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019 , 100, 782-783	2.8	
95	An Adaptive Mobile Health System to Support Self-Management for Persons With Chronic Conditions and Disabilities: Usability and Feasibility Studies. <i>JMIR Formative Research</i> , 2019 , 3, e12982	2.5	20
94	The Effect of the Interactive Mobile Health and Rehabilitation System on Health and Psychosocial Outcomes in Spinal Cord Injury: Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2019 , 21, e14305	7.6	15
93	An mHealth App for Users with Dexterity Impairments: Accessibility Study. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e202	5.5	15
92	Correlation Between Neurologic Impairment Grade and Ambulation Status in the Adult Spina Bifida Population. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2019 , 98, 1045-1050	2.6	5
91	Systematic Review of Mobile Health Applications in Rehabilitation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019 , 100, 115-127	2.8	58
90	The future of the provision process for mobility assistive technology: a survey of providers. <i>Disability and Rehabilitation: Assistive Technology</i> , 2019 , 14, 338-345	1.8	23
89	Development and content validity of the behavioral assessment screening tool (BAST). <i>Disability and Rehabilitation</i> , 2019 , 41, 1200-1206	2.4	10
88	Exercise Prescription Using a Group-Normalized Rating of Perceived Exertion in Adolescents and Adults With Spina Bifida. <i>PM and R</i> , 2018 , 10, 738-747	2.2	1
87	Engineering and Technology in Wheelchair Sport. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2018 , 29, 347-369	2.3	4

86	The Voice of the Consumer: A Survey of Veterans and Other Users of Assistive Technology. <i>Military Medicine</i> , 2018 , 183, e518-e525	1.3	27
85	Model-Based Dynamic Control Allocation in a Hybrid Neuroprosthesis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 224-232	4.8	40
84	Dynamic optimization of stimulation frequency to reduce isometric muscle fatigue using a modified Hill-Huxley model. <i>Muscle and Nerve</i> , 2018 , 57, 634-641	3.4	11
83	A Control Scheme That Uses Dynamic Postural Synergies to Coordinate a Hybrid Walking Neuroprosthesis: Theory and Experiments. <i>Frontiers in Neuroscience</i> , 2018 , 12, 159	5.1	21
82	Impact of neurological level and spinal curvature on pulmonary function in adults with spina bifida. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2018 , 11, 243-254	1.4	2
81	Co-morbidities Associated With Early Mortality in Adults With Spina Bifida. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018 , 97, 861-865	2.6	15
80	Accessibility needs and challenges of a mHealth system for patients with dexterity impairments. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017 , 12, 56-64	1.8	20
79	Research Needs for Effective Transition in Lifelong Care of Congenital Genitourinary Conditions: A Workshop Sponsored by the National Institute of Diabetes and Digestive and Kidney Diseases. <i>Urology</i> , 2017 , 103, 261-271	1.6	18
78	A Modified Dynamic Surface Controller for Delayed Neuromuscular Electrical Stimulation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1755-1764	5.5	11
77	Changing Perception: Outcomes from a Physical Medicine and Rehabilitation Medical Student Interest Fair. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2017 , 96, 362-365	2.6	3
76	Bilateral Control of Functional Electrical Stimulation and Robotics-based Telerehabilitation. <i>International Journal of Intelligent Robotics and Applications</i> , 2017 , 1, 6-18	1.7	5
75	Consumer Feedback to Steer the Future of Assistive Technology Research and Development: A Pilot Study. <i>Topics in Spinal Cord Injury Rehabilitation</i> , 2017 , 23, 89-97	1.5	6
74	Design of Mobile Health Tools to Promote Goal Achievement in Self-Management Tasks. <i>JMIR MHealth and UHealth</i> , 2017 , 5, e103	5.5	16
73	A chronic care model for spina bifida transition. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2017 , 10, 243-247	1.4	6
72	Measuring static seated pressure distributions and risk for skin pressure ulceration in ice sledge hockey players. <i>Disability and Rehabilitation: Assistive Technology</i> , 2016 , 11, 241-6	1.8	2
71	Innovations With 3-Dimensional Printing in Physical Medicine and Rehabilitation: A Review of the Literature. <i>PM and R</i> , 2016 , 8, 1201-1212	2.2	47
70	Identifying characteristic back shapes from anatomical scans of wheelchair users to improve seating design. <i>Medical Engineering and Physics</i> , 2016 , 38, 999-1007	2.4	7
69	Feasibility of Using Mobile Health to Promote Self-Management in Spina Bifida. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2016 , 95, 425-37	2.6	35

68	Processes and Outcomes from a Medical Student Research Training Program in Integrative, Complementary, and Alternative Medicine. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2016 , 95, 779-86	2.6	2
67	Comfort and stability of wheelchair backrests according to the TAWC (tool for assessing wheelchair discomfort). <i>Disability and Rehabilitation: Assistive Technology</i> , 2016 , 11, 223-7	1.8	4
66	Interrater Reliability of the Power Mobility Road Test in the Virtual Reality-Based Simulator-2. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016 , 97, 1078-84	2.8	8
65	Stability and Workload of the Virtual Reality-Based Simulator-2. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016 , 97, 1085-1092.e1	2.8	5
64	Validity of activity monitors in wheelchair users: A systematic review. <i>Journal of Rehabilitation Research and Development</i> , 2016 , 53, 641-658		19
63	Iterative Design and Usability Testing of the Imhere System for Managing Chronic Conditions and Disability. <i>International Journal of Telerehabilitation</i> , 2016 , 8, 11-20	4.5	11
62	Effectiveness of a Wellness Program for Individuals With Spina Bifida and Spinal Cord Injury Within an Integrated Delivery System. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016 , 97, 1969-1978	2.8	16
61	Rehabilitation Engineering & Assistive Technology Society (RESNA) position on the application of wheelchair standing devices: 2013 current state of the literature. <i>Assistive Technology</i> , 2016 , 28, 57-62	1.5	8
60	Switching control of functional electrical stimulation and motor assist for muscle fatigue compensation 2016 ,		10
59	Perspectives on the evolution of mobile (mHealth) technologies and application to rehabilitation. <i>Physical Therapy</i> , 2015 , 95, 397-405	3.3	74
58	Advanced Joystick Algorithms for Computer Access Tasks. <i>PM and R</i> , 2015 , 7, 555-61	2.2	1
57	Validity of a wheelchair perceived exertion scale (wheel scale) for arm ergometry exercise in people with spina bifida. <i>Perceptual and Motor Skills</i> , 2015 , 120, 304-22	2.2	5
56	Factors associated with pressure ulcers in individuals with spina bifida. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015 , 96, 1435-1441.e1	2.8	26
55	Pilot feasibility of an mHealth system for conducting ecological momentary assessment of mood-related symptoms following traumatic brain injury. <i>Brain Injury</i> , 2015 , 29, 1351-61	2.1	50
54	Rehabilitation Engineering and Assistive Technology Society of North America's Position on the Application of Tilt, Recline, and Elevating Legrests for Wheelchairs Literature Update. <i>Assistive Technology</i> , 2015 , 27, 193-8	1.5	7
53	Depressive symptoms in adults with spina bifida. <i>Rehabilitation Psychology</i> , 2015 , 60, 246-53	2.7	17
52	Development of mHealth system for supporting self-management and remote consultation of skincare. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15, 114	3.6	23
51	Factors Associated with Mobility Outcomes in a National Spina Bifida Patient Registry. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2015 , 94, 1015-25	2.6	43

50	Accessibility of mHealth Self-Care Apps for Individuals with Spina Bifida. <i>Perspectives in Health Information Management / AHIMA, American Health Information Management Association</i> , 2015 , 12, 1h	1.4	16
49	Advances in spina bifida care: from the womb to adulthood. <i>Current Physical Medicine and Rehabilitation Reports</i> , 2014 , 2, 71-78	0.7	5
48	Preliminary evaluation of variable compliance joystick for people with multiple sclerosis. <i>Journal of Rehabilitation Research and Development</i> , 2014 , 51, 951-62		7
47	A participatory approach to develop the Power Mobility Screening Tool and the Power Mobility Clinical Driving Assessment tool. <i>BioMed Research International</i> , 2014 , 2014, 541614	3	15
46	Investigation of peak pressure index parameters for people with spinal cord injury using wheelchair tilt-in-space and recline: methodology and preliminary report. <i>BioMed Research International</i> , 2014 , 2014, 508583	3	13
45	Young adults with spina bifida may have higher occurrence of prehypertension and hypertension. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014 , 93, 200-6	2.6	19
44	Physical activity, exercise, and health-related measures of fitness in adults with spina bifida: a review of the literature. <i>PM and R</i> , 2013 , 5, 1051-62	2.2	18
43	Assessment of wheelchair driving performance in a virtual reality-based simulator. <i>Journal of Spinal Cord Medicine</i> , 2013 , 36, 322-32	1.9	22
42	Pressure mapping to assess seated pressure distributions and the potential risk for skin ulceration in a population of sledge hockey players and control subjects. <i>Disability and Rehabilitation: Assistive Technology</i> , 2013 , 8, 387-91	1.8	11
41	Self-management, satisfaction with family functioning, and the course of psychological symptoms in emerging adults with spina bifida. <i>Journal of Pediatric Psychology</i> , 2013 , 38, 50-62	3.2	19
40	Acute mountain sickness in athletes with neurological impairments. <i>Journal of Rehabilitation Research and Development</i> , 2013 , 50, 253-62		6
39	Family satisfaction, pain, and quality-of-life in emerging adults with spina bifida: a longitudinal analysis. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2013 , 92, 641-55	2.6	16
38	Effectiveness of an upper extremity exercise device and text message reminders to exercise in adults with spina bifida: a pilot study. <i>Assistive Technology</i> , 2013 , 25, 181-93	1.5	2
37	Outcomes of Clinicians, Caregivers, Family Members and Adults with Spina Bifida Regarding Receptivity to use of the iMHere mHealth Solution to Promote Wellness. <i>International Journal of Telerehabilitation</i> , 2013 , 5, 3-16	4.5	26
36	iMHere: A Novel mHealth System for Supporting Self-Care in Management of Complex and Chronic Conditions. <i>JMIR MHealth and UHealth</i> , 2013 , 1, e10	5.5	72
35	Factors associated with provision of wheelchairs in older adults. <i>Assistive Technology</i> , 2012 , 24, 155-67	1.5	22
34	Virtual electric power wheelchair driving performance of individuals with spastic cerebral palsy. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2012 , 91, 823-30	2.6	11
33	Virtual socialization in adults with spina bifida. <i>PM and R</i> , 2011 , 3, 219-25	2.2	4

32	Integrating rehabilitation engineering technology with biologics. <i>PM and R</i> , 2011 , 3, S148-57	2.2	2
31	Targeted preventive care may be needed for adults with congenital spine anomalies. <i>PM and R</i> , 2011 , 3, 730-8	2.2	21
30	Comparison of virtual wheelchair driving performance of people with traumatic brain injury using an isometric and a conventional joystick. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011 , 92, 1298-304	2.8	12
29	The frequency of lymphedema in an adult spina bifida population. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2011 , 90, 89-96	2.6	13
28	Tuning algorithms for control interfaces for users with upper-limb impairments. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2011 , 90, 992-8	2.6	4
27	Self-management, preventable conditions and assessment of care among young adults with myelomeningocele. <i>Child: Care, Health and Development</i> , 2011 , 37, 861-5	2.8	29
26	Interrelationships of sex, level of lesion, and transition outcomes among young adults with myelomeningocele. <i>Developmental Medicine and Child Neurology</i> , 2011 , 53, 647-52	3.3	62
25	Demographic profile of older adults using wheeled mobility devices. <i>Journal of Aging Research</i> , 2011 , 2011, 560358	2.3	14
24	Physiatrists and developmental pediatricians working together to improve outcomes in children with spina bifida. <i>Pediatric Clinics of North America</i> , 2010 , 57, 973-81	3.6	6
23	Using the spina bifida life course model in clinical practice: an interdisciplinary approach. <i>Pediatric Clinics of North America</i> , 2010 , 57, 945-57	3.6	4
22	Implementing a specialty electronic medical record to document a life-course developmental model and facilitate clinical interventions in spina bifida clinics. <i>Pediatric Clinics of North America</i> , 2010 , 57, 959-71	3.6	1
21	Joystick control for powered mobility: current state of technology and future directions. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2010 , 21, 79-86	2.3	41
20	Hospitalizations of adults with spina bifida and congenital spinal cord anomalies. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010 , 91, 529-35	2.8	85
19	Correlates of depressive and anxiety symptoms in young adults with spina bifida. <i>Journal of Pediatric Psychology</i> , 2010 , 35, 778-89	3.2	61
18	RESNA position on the application of wheelchair standing devices. <i>Assistive Technology</i> , 2009 , 21, 161-8; quiz 169-71	1.5	35
17	RESNA position on the application of tilt, recline, and elevating legrests for wheelchairs. <i>Assistive Technology</i> , 2009 , 21, 13-22; quiz 24	1.5	64
16	Psychosocial impact of participation in the National Veterans Wheelchair Games and Winter Sports Clinic. <i>Disability and Rehabilitation</i> , 2009 , 31, 410-8	2.4	63
15	Mobility, assistive technology use, and social integration among adults with spina bifida. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2009 , 88, 533-41	2.6	35

14	Spina bifida and mobility in the transition years. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2009 , 88, 1002-6	2.6	23
13	. <i>Journal of Rehabilitation Research and Development</i> , 2009 , 46, 269		19
12	Prosthesis and wheelchair use in veterans with lower-limb amputation. <i>Journal of Rehabilitation Research and Development</i> , 2009 , 46, 567-76		45
11	Joystick use for virtual power wheelchair driving in individuals with tremor: pilot study. <i>Journal of Rehabilitation Research and Development</i> , 2009 , 46, 269-75		6
10	Rehabilitation and medical management of the adult with spina bifida. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2008 , 87, 1027-50	2.6	99
9	A perspective on intelligent devices and environments in medical rehabilitation. <i>Medical Engineering and Physics</i> , 2008 , 30, 1387-98	2.4	54
8	Acute mountain sickness in disability and adaptive sports: preliminary data. <i>Journal of Rehabilitation Research and Development</i> , 2008 , 45, 479-87		11
7	Force control strategies while driving electric powered wheelchairs with isometric and movement-sensing joysticks. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007 , 15, 144-50	4.8	26
6	Power mobility device provision: understanding Medicare guidelines and advocating for clients. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007 , 88, 807-16	2.8	20
5	Advancements in power wheelchair joystick technology: Effects of isometric joysticks and signal conditioning on driving performance. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2006 , 85, 631-9	2.6	18
4	. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2003 , 82, 197-202	2.6	3
3	Investigating neck pain in wheelchair users. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2003 , 82, 197-202	2.6	42
2	Shoulder magnetic resonance imaging abnormalities, wheelchair propulsion, and gender. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003 , 84, 1615-20	2.8	89
1	RELATIONSHIP BETWEEN BODY MASS INDEX OF MANUAL WHEELCHAIR USERS AND SHOULDER PAIN AND INJURY. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1999 , 78, 177-178	2.6	2