

Na Jin Seo

List of Publications by Year in descending order

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73
papers

1,543
citations

279701

23
h-index

345118

36
g-index

78
all docs

78
docs citations

78
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Grip Force, Normal Force, Contact Area, Hand Size, and Handle Size for Cylindrical Handles. <i>Human Factors</i> , 2008, 50, 734-744.	2.1	117
2	Delays in Grip Initiation and Termination in Persons With Stroke: Effects of Arm Support and Active Muscle Stretch Exercise. <i>Journal of Neurophysiology</i> , 2009, 101, 3108-3115.	0.9	91
3	Remote vibrotactile noise improves light touch sensation in stroke survivorsâ€™ fingertips via stochastic resonance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 105.	2.4	87
4	The effect of torque direction and cylindrical handle diameter on the coupling between the hand and a cylindrical handle. <i>Journal of Biomechanics</i> , 2007, 40, 3236-3243.	0.9	75
5	Effects of handle orientation, gloves, handle friction and elbow posture on maximum horizontal pull and push forces. <i>Ergonomics</i> , 2010, 53, 92-101.	1.1	63
6	Altered digit force direction during pinch grip following stroke. <i>Experimental Brain Research</i> , 2010, 202, 891-901.	0.7	59
7	Effect of Remote Sensory Noise on Hand Function Post Stroke. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 934.	1.0	56
8	The <sc>ENIGMA</sc> Stroke Recovery Working Group: Big data neuroimaging to study brainâ€™ behavior relationships after stroke. <i>Human Brain Mapping</i> , 2022, 43, 129-148.	1.9	54
9	Usability evaluation of low-cost virtual reality hand and arm rehabilitation games. <i>Journal of Rehabilitation Research and Development</i> , 2016, 53, 321-334.	1.6	49
10	Application of vibration to wrist and hand skin affects fingertip tactile sensation. <i>Physiological Reports</i> , 2015, 3, e12465.	0.7	44
11	Use of Visual Force Feedback to Improve Digit Force Direction During Pinch Grip in Persons With Stroke: A Pilot Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011, 92, 24-30.	0.5	41
12	Tactile feedback plays a critical role in maximum finger force production. <i>Journal of Biomechanics</i> , 2012, 45, 415-420.	0.9	35
13	Use of imperceptible wrist vibration to modulate sensorimotor cortical activity. <i>Experimental Brain Research</i> , 2019, 237, 805-816.	0.7	35
14	Effect of imperceptible vibratory noise applied to wrist skin on fingertip touch evoked potentials - an EEG study. <i>Physiological Reports</i> , 2015, 3, e12624.	0.7	34
15	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. <i>Scientific Data</i> , 2022, 9, .	2.4	33
16	Exploring the feasibility and use of accelerometers before, during, and after a camp-based CIMT program for children with cerebral palsy. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2017, 10, 27-36.	0.3	32
17	A comparison of two methods of measuring static coefficient of friction at low normal forces: a pilot study. <i>Ergonomics</i> , 2009, 52, 121-135.	1.1	30
18	Phalanx force magnitude and trajectory deviation increased during power grip with an increased coefficient of friction at the handâ€™ object interface. <i>Journal of Biomechanics</i> , 2011, 44, 1447-1453.	0.9	28

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19	Friction coefficients in a longitudinal direction between the finger pad and selected materials for different normal forces and curvatures. <i>Ergonomics</i> , 2009, 52, 609-616.	1.1	27
20	Inward Torque and High-Friction Handles Can Reduce Required Muscle Efforts for Torque Generation. <i>Human Factors</i> , 2008, 50, 37-48.	2.1	26
21	The Effect of Handle Friction and Inward or Outward Torque on Maximum Axial Push Force. <i>Human Factors</i> , 2008, 50, 227-236.	2.1	26
22	Contribution of intracortical inhibition in voluntary muscle relaxation. <i>Experimental Brain Research</i> , 2012, 221, 299-308.	0.7	26
23	Effect of elliptic handle shape on grasping strategies, grip force distribution, and twisting ability. <i>Ergonomics</i> , 2011, 54, 961-970.	1.1	24
24	Wrist strength is dependent on simultaneous power grip intensity. <i>Ergonomics</i> , 2008, 51, 1594-1605.	1.1	23
25	Effect of a serotonin antagonist on delay in grip muscle relaxation for persons with chronic hemiparetic stroke. <i>Clinical Neurophysiology</i> , 2011, 122, 796-802.	0.7	23
26	Investigating the Role of Vibrotactile Noise in Early Response to Perturbation. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1628-1633.	2.5	22
27	Modifying Kinect placement to improve upper limb joint angle measurement accuracy. <i>Journal of Hand Therapy</i> , 2016, 29, 465-473.	0.7	21
28	Grip Surface Affects Maximum Pinch Force. <i>Human Factors</i> , 2011, 53, 740-748.	2.1	20
29	TheraBracelet Stimulation During Task-Practice Therapy to Improve Upper Extremity Function After Stroke: A Pilot Randomized Controlled Study. <i>Physical Therapy</i> , 2019, 99, 319-328.	1.1	20
30	Factors affecting fall severity from a ladder: Impact of climbing direction, gloves, gender and adaptation. <i>Applied Ergonomics</i> , 2017, 60, 163-170.	1.7	19
31	Hand Grip Function Assessed by the Box and Block Test Is Affected by Object Surfaces. <i>Journal of Hand Therapy</i> , 2012, 25, 397-405.	0.7	18
32	Improvement of hand function using different surfaces and identification of difficult movement post stroke in the Box and Block Test. <i>Applied Ergonomics</i> , 2014, 45, 833-838.	1.7	18
33	Dependence of safety margins in grip force on isometric push force levels in lateral pinch. <i>Ergonomics</i> , 2009, 52, 840-847.	1.1	17
34	Hand breakaway strength model – Effects of glove use and handle shapes on a person's hand strength to hold onto handles to prevent fall from elevation. <i>Journal of Biomechanics</i> , 2012, 45, 958-964.	0.9	17
35	Biomechanical analysis for handle stability during maximum push and pull exertions. <i>Ergonomics</i> , 2009, 52, 1568-1575.	1.1	15
36	The Prognostic Utility of Electroencephalography in Stroke Recovery: A Systematic Review and Meta-Analysis. <i>Neurorehabilitation and Neural Repair</i> , 2022, 36, 255-268.	1.4	13

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37	Influence of Pain Associated with Musculoskeletal Disorders on Grip Force Timing. <i>Journal of Hand Therapy</i> , 2011, 24, 335-344.	0.7	12
38	Postural variation of hand precision grips by object size. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 1641-1651.	0.7	12
39	Capturing Upper Limb Gross Motor Categories Using the Kinect ^Å Sensor. <i>American Journal of Occupational Therapy</i> , 2019, 73, 7304205090p1-7304205090p10.	0.1	12
40	Involuntary contralateral upper extremity muscle activation pattern during unilateral pinch grip following stroke. <i>Journal of Hand Therapy</i> , 2013, 26, 272-278.	0.7	11
41	The extent of altered digit force direction correlates with clinical upper extremity impairment in chronic stroke survivors. <i>Journal of Biomechanics</i> , 2015, 48, 383-387.	0.9	11
42	Delayed grip relaxation and altered modulation of intracortical inhibition with aging. <i>Experimental Brain Research</i> , 2016, 234, 985-995.	0.7	10
43	Effects of Sensory Deficit on Phalanx Force Deviation During Power Grip Post Stroke. <i>Journal of Motor Behavior</i> , 2017, 49, 55-66.	0.5	10
44	Phase I Safety Trial: Extended Daily Peripheral Sensory Stimulation Using a Wrist-Worn Vibrator in Stroke Survivors. <i>Translational Stroke Research</i> , 2020, 11, 204-213.	2.3	10
45	Determining Factors that Influence Adoption of New Post-Stroke Sensorimotor Rehabilitation Devices in the USA. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1213-1222.	2.7	10
46	An MRI-compatible hand sensory vibrotactile system. <i>Physiological Measurement</i> , 2015, 36, N15-N21.	1.2	9
47	Feasibility and usability of a wearable orthotic for stroke survivors with hand impairment. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 175-183.	1.3	8
48	Use of an EMG-Controlled Game as a Therapeutic Tool to Retrain Hand Muscle Activation Patterns Following Stroke: A Pilot Study. <i>Journal of Neurologic Physical Therapy</i> , 2022, 46, 198-205.	0.7	8
49	Chronic Stroke Sensorimotor Impairment Is Related to Smaller Hippocampal Volumes: An ENIGMA Analysis. <i>Journal of the American Heart Association</i> , 2022, 11, e025109.	1.6	8
50	Low-cost virtual rehabilitation games: House of quality to meet patient expectations. , 2013, , .		7
51	Altered phalanx force direction during power grip following stroke. <i>Experimental Brain Research</i> , 2015, 233, 1677-1688.	0.7	7
52	Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. <i>Brain Communications</i> , 2021, 3, fcab254.	1.5	7
53	Muscular responses to handle perturbation with different glove condition. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 159-164.	0.7	6
54	Effects of upper body strength, hand placement and foot placement on ladder fall severity. <i>Gait and Posture</i> , 2019, 68, 23-29.	0.6	6

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55	Using Subthreshold Vibratory Stimulation During Poststroke Rehabilitation Therapy: A Case Series. <i>OTJR Occupation, Participation and Health</i> , 2022, 42, 30-39.	0.4	6
56	Effects of Gloves and Pulling Task on Achievable Downward Pull Forces on a Rung. <i>Human Factors</i> , 2018, 60, 191-200.	2.1	6
57	Predicting upper extremity motor improvement following therapy using EEG-based connectivity in chronic stroke. <i>NeuroRehabilitation</i> , 2022, 50, 105-113.	0.5	6
58	Concomitant sensory stimulation during therapy to enhance hand functional recovery post stroke. <i>Trials</i> , 2022, 23, 262.	0.7	6
59	Monitoring hemodynamic changes in stroke-affected muscles using near-infrared spectroscopy. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2015, 2, 205566831561419.	0.6	3
60	Development of a Computerized Model for Evaluation of Manual Insertion of Flexible Hoses in Automobile Assembly. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 1498-1502.	0.2	2
61	TheraBracelet Sensory Stimulation To Enhance Hand Functional Recovery Post Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, e4-e5.	0.5	2
62	Effect of grip location, arm support, and muscle stretch on sustained finger flexor activity following stroke. , 2008, 2008, 4170-3.		1
63	The Effects of Upper Extremity Injury on Maximal Grip Effort. <i>Journal of Hand Therapy</i> , 2011, 24, 386-387.	0.7	1
64	Predicting Individual Treatment Response Using EEG. <i>American Journal of Occupational Therapy</i> , 2021, 75, 7512515350p1-7512515350p1.	0.1	1
65	Predicting Individual Treatment Response Using Functional Magnetic Resonance Imaging (fMRI). <i>American Journal of Occupational Therapy</i> , 2020, 74, 7411500006p1-7411500006p1.	0.1	1
66	Effect of novel training to normalize altered finger force direction post-stroke: study protocol for a double-blind randomized controlled trial. <i>Trials</i> , 2022, 23, 301.	0.7	1
67	The Effect of Simultaneous Grip on Wrist Flexion/Extension Strength. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 1215-1218.	0.2	0
68	4047 EEG as a Predictor of Post-Stroke Recovery: A Systematic Review and Meta-Analysis. <i>Journal of Clinical and Translational Science</i> , 2020, 4, 71-71.	0.3	0
69	49824 Determining factors that influence adoption of new post-stroke physical rehabilitation devices. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 56-57.	0.3	0
70	Excessive Shear Force at the Digits May Contribute to Unstable Grip Following Stroke. , 2009, , .		0
71	Quantifying Real-World Activity and Upper-Limb Use in Children with Cerebral Palsy Using Accelerometers. <i>American Journal of Occupational Therapy</i> , 2016, 70, 7011500060p1-7011500060p1.	0.1	0
72	Using TheraBracelet as an Adjunct to Pediatric Constraint-Induced Movement Therapy in Cerebral Palsy. <i>American Journal of Occupational Therapy</i> , 2019, 73, 7311515311p1-7311515311p1.	0.1	0

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73	Feasibility, Safety, and Preliminary Efficacy of Using Vibratory Stimulation During Task Practice Therapy in Chronic Stroke Survivors. American Journal of Occupational Therapy, 2020, 74, 7411515369p1-7411515369p1.	0.1	0