

Kathleen H Sienko

List of Publications by Year in Descending Order

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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.

60 papers	859 citations	18 h-index	27 g-index
76 ext. papers	1,092 ext. citations	3.4 avg, IF	4.3 L-index

#	Paper	IF	Citations
60	Reducing Slip Risk: A Feasibility Study of Gait Training with Semi-Real-Time Feedback of Foot-floor Contact Angle. <i>Sensors</i> , 2022 , 22, 3641	3.8	0
59	Defining and characterizing task-shifting medical devices. <i>Globalization and Health</i> , 2021 , 17, 60	10	2
58	Automatically evaluating balance using machine learning and data from a single inertial measurement unit. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 114	5.3	0
57	Automated Loss-of-Balance Event Identification in Older Adults at Risk of Falls during Real-World Walking Using Wearable Inertial Measurement Units. <i>Sensors</i> , 2021 , 21,	3.8	2
56	Product representations in conjoint analysis in an LMIC setting: Comparing attribute valuation when three-dimensional physical prototypes are shown versus two-dimensional renderings. <i>Development Engineering</i> , 2021 , 6, 100063	2.5	0
55	INITIAL CHARACTERIZATION OF NOVICE ENGINEERING DESIGNERS' CONSIDERATION OF CONTEXTUAL FACTORS. <i>Proceedings of the Design Society</i> , 2021 , 1, 1857-1866		
54	Preliminary clinical assessment of a task-shifting device for subcutaneous contraceptive implants. <i>International Journal of Gynecology and Obstetrics</i> , 2021 , 155, 159-161	4	1
53	Standing balance of vehicle passengers: The effect of vehicle motion, task performance on post-drive balance. <i>Gait and Posture</i> , 2020 , 82, 189-195	2.6	1
52	Prototyping strategies for stakeholder engagement during front-end design: Design practitioners' approaches in the medical device industry. <i>Design Studies</i> , 2020 , 71, 100977	3.6	5
51	An in-depth investigation of student information gathering meetings with stakeholders and domain experts. <i>International Journal of Technology and Design Education</i> , 2020 , 1	1.1	1
50	Assessing the Usability of a Task-Shifting Device for Inserting Subcutaneous Contraceptive Implants for Use in Low-Income Countries. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2020 , 14,	1.3	1
49	Students' perceptions of the value of stakeholder engagement during engineering design. <i>Journal of Engineering Education</i> , 2020 , 109, 760-779	2.3	1
48	Age Differences in Vestibular Brain Connectivity Are Associated With Balance Performance. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 566331	5.3	2
47	Global health front-end medical device design: The use of prototypes to engage stakeholders. <i>Development Engineering</i> , 2020 , 5, 100055	2.5	5
46	Deactivation of somatosensory and visual cortices during vestibular stimulation is associated with older age and poorer balance. <i>PLoS ONE</i> , 2019 , 14, e0221954	3.7	7
45	Automatically Evaluating Balance: A Machine Learning Approach. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 179-186	4.8	11
44	Design and evaluation of a subcutaneous contraceptive implant training simulator. <i>International Journal of Gynecology and Obstetrics</i> , 2019 , 147, 36-42	4	1

43	Investigating prototyping approaches of Ghanaian novice designers. <i>Design Science</i> , 2019 , 5,	2.8	4
42	Vibrotactile display design: Quantifying the importance of age and various factors on reaction times. <i>PLoS ONE</i> , 2019 , 14, e0219737	3.7	5
41	Sensory garments with vibrotactile feedback for monitoring and informing seated posture 2019 ,		2
40	Motion sickness in passenger vehicles during test track operations. <i>Ergonomics</i> , 2019 , 62, 1357-1371	2.9	10
39	Reliability and Validity of Ratings of Perceived Difficulty During Performance of Static Standing Balance Exercises. <i>Physical Therapy</i> , 2019 , 99, 1381-1393	3.3	3
38	Prototyping for context: exploring stakeholder feedback based on prototype type, stakeholder group and question type. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2019 , 30, 453-471	3.5	15
37	Effects of long-term vestibular rehabilitation therapy with vibrotactile sensory augmentation for people with unilateral vestibular disorders - A randomized preliminary study. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2019 , 29, 323-334	2.5	12
36	The Use of Vibrotactile Feedback During Dual-Task Standing Balance Conditions in People With Unilateral Vestibular Hypofunction. <i>Otology and Neurotology</i> , 2018 , 39, e349-e356	2.6	4
35	Medical device landscape for communicable and noncommunicable diseases in low-income countries. <i>Globalization and Health</i> , 2018 , 14, 65	1.0	11
34	Effects of long-term balance training with vibrotactile sensory augmentation among community-dwelling healthy older adults: a randomized preliminary study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 5	5.3	34
33	Reliability of Postural Sway Measures of Standing Balance Tasks. <i>Journal of Applied Biomechanics</i> , 2018 , 1-23	1.2	9
32	Potential Mechanisms of Sensory Augmentation Systems on Human Balance Control. <i>Frontiers in Neurology</i> , 2018 , 9, 944	4.1	25
31	A shared neural integrator for human posture control. <i>Journal of Neurophysiology</i> , 2017 , 118, 894-903	3.2	6
30	Novice designers' use of prototypes in engineering design. <i>Design Studies</i> , 2017 , 51, 25-65	3.6	54
29	Cost effectiveness of medical devices to diagnose pre-eclampsia in low-resource settings. <i>Development Engineering</i> , 2017 , 2, 99-106	2.5	5
28	Configurable, wearable sensing and vibrotactile feedback system for real-time postural balance and gait training: proof-of-concept. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 102	5.3	29
27	The effects of attractive vs. repulsive instructional cuing on balance performance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 29	5.3	15
26	A cutaneous positioning system. <i>Experimental Brain Research</i> , 2015 , 233, 1237-45	2.3	15

25	Blood salvage device for use during ruptured ectopic pregnancy in low-resource countries. <i>International Journal of Gynecology and Obstetrics</i> , 2015 , 128, 74-5	4	1
24	Determining inertial measurement unit placement for estimating human trunk sway while standing, walking and running. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4651-4	0.9	2
23	Requirements Development: Approaches and Behaviors of Novice Designers. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015 , 137,	3	13
22	The effect of age on postural and cognitive task performance while using vibrotactile feedback. <i>Journal of Neurophysiology</i> , 2015 , 113, 2127-36	3.2	18
21	Obstetrics-based clinical immersion of a multinational team of biomedical engineering students in Ghana. <i>International Journal of Gynecology and Obstetrics</i> , 2014 , 127, 218-20	4	5
20	Theoretical and experimental indicators of falls during pregnancy as assessed by postural perturbations. <i>Gait and Posture</i> , 2014 , 39, 218-23	2.6	18
19	The effects of actuator selection on non-volitional postural responses to torso-based vibrotactile stimulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 21	5.3	18
18	A mathematical model for incorporating biofeedback into human postural control. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 14	5.3	4
17	Discrepancies between clinicians and rural healthcare workers regarding referral procedures based on blood pressure measurements. <i>International Journal of Gynecology and Obstetrics</i> , 2013 , 123, 246-7	4	1
16	Determining the preferred modality for real-time biofeedback during balance training. <i>Gait and Posture</i> , 2013 , 37, 391-6	2.6	37
15	The effect of vibrotactile feedback on postural sway during locomotor activities. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 93	5.3	46
14	Development of culturally appropriate pictorial cards to facilitate maternal health histories in rural Ghana. <i>International Journal of Gynecology and Obstetrics</i> , 2013 , 123, 244-5	4	2
13	Postural reorganization induced by torso cutaneous covibration. <i>Journal of Neuroscience</i> , 2013 , 33, 7870-6	66	19
12	User-Based Design Approach to Develop a Traditional Adult Male Circumcision Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2013 , 7,	1.3	1
11	Comparison of non-volitional postural responses induced by two types of torso based vibrotactile stimulations 2012 ,		5
10	Effects of biofeedback on secondary-task response time and postural stability in older adults. <i>Gait and Posture</i> , 2012 , 35, 523-8	2.6	32
9	Cell phone based balance trainer. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 10	5.3	96
8	Biofeedback improves postural control recovery from multi-axis discrete perturbations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 53	5.3	38

7	Effects of co-vibrotactile stimulations around the torso on non-volitional postural responses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6149-52	0.9	1
6	Directional postural responses induced by vibrotactile stimulations applied to the torso. <i>Experimental Brain Research</i> , 2012 , 222, 471-82	2.3	37
5	Traditional male circumcision in Uganda: a qualitative focus group discussion analysis. <i>PLoS ONE</i> , 2012 , 7, e45316	3.7	13
4	Assessment of vibrotactile feedback on postural stability during pseudorandom multidirectional platform motion. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 944-52	5	35
3	Effects of multi-directional vibrotactile feedback on vestibular-deficient postural performance during continuous multi-directional support surface perturbations. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2008 , 18, 273-85	2.5	30
2	Adaptation of the vestibulo-ocular reflex, subjective tilt, and motion sickness to head movements during short-radius centrifugation. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2003 , 13, 65-77	2.5	25
1	Artificial gravity: head movements during short-radius centrifugation. <i>Acta Astronautica</i> , 2001 , 49, 215-26.9	2.9	52