Mukul Mukherjee

List of Publications by Year
in descending order

54	792	516710 16	552781 26
papers	citations	h-index	g-index

57	57	57	941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gait Variability is Altered in Older Adults When Listening to Auditory Stimuli with Differing Temporal Structures. Annals of Biomedical Engineering, 2013, 41, 1595-1603.	2.5	88
2	The Effect of Music on Robot-Assisted Laparoscopic Surgical Performance. Surgical Innovation, 2010, 17, 306-311.	0.9	63
3	The Effect of Electro-Acupuncture on Spasticity of the Wrist Joint in Chronic Stroke Survivors. Archives of Physical Medicine and Rehabilitation, 2007, 88, 159-166.	0.9	46
4	The impact of environmental noise on robot-assisted laparoscopic surgical performance. Surgery, 2010, 147, 107-113.	1.9	44
5	Biomechanical analyses of stair-climbing while dual-tasking. Journal of Biomechanics, 2015, 48, 921-929.	2.1	41
6	Locomotor Sensory Organization Test: A Novel Paradigm for the Assessment of Sensory Contributions in Gait. Annals of Biomedical Engineering, 2014, 42, 2512-2523.	2.5	39
7	Training program for fundamental surgical skill in robotic laparoscopic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2011, 7, 327-333.	2.3	32
8	Alterations in Cortical Activation Among Individuals With Chronic Ankle Instability During Single-Limb Postural Control. Journal of Athletic Training, 2019, 54, 718-726.	1.8	32
9	Electroacupuncture may help motor recovery in chronic stroke survivors: A pilot study. Journal of Rehabilitation Research and Development, 2008, 45, 587-596.	1.6	30
10	The effect of the partially restricted sit-to-stand task on biomechanical variables in subjects with and without Parkinsonâ€™s disease. Journal of Electromyography and Kinesiology, 2011, 21, 719-726.	1.7	27
11	The effect of virtual reality on gait variability. Nonlinear Dynamics, Psychology, and Life Sciences, 2010, 14, 239-56.	0.2	26
12	Auditory and Visual External Cues Have Different Effects on Spatial but Similar Effects on Temporal Measures of Gait Variability. Frontiers in Physiology, 2020, 11, 67.	2.8	23
13	The negative effect of distraction on performance of robotâ€assisted surgical skills in medical students and residents. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 377-381.	2.3	22
14	Accuracy and speed tradeâ€off in robotâ€assisted surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 324-329.	2.3	19
15	Attention is associated with postural control in those with chronic ankle instability. Gait and Posture, 2017, 54, 34-38.	1.4	19
16	Locomotor Sensory Organization Test: How Sensory Conflict Affects the Temporal Structure of Sway Variability During Gait. Annals of Biomedical Engineering, 2016, 44, 1625-1635.	2.5	18
17	Tactile stimuli affect long-range correlations of stride interval and stride length differently during walking. Experimental Brain Research, 2017, 235, 1185-1193.	1.5	18
18	Plantar tactile perturbations enhance transfer of split-belt locomotor adaptation. Experimental Brain Research, 2015, 233, 3005-3012.	1.5	15

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19	Optic flow improves adaptability of spatiotemporal characteristics during split-belt locomotor adaptation with tactile stimulation. Experimental Brain Research, 2016, 234, 511-522.	1.5	15
20	Variability of lower extremity joint kinematics during backward walking in a virtual environment. Nonlinear Dynamics, Psychology, and Life Sciences, 2010, 14, 165-78.	0.2	15
21	Enhancing Fundamental Robot-Assisted Surgical Proficiency by Using a Portable Virtual Simulator. Surgical Innovation, 2013, 20, 198-203.	0.9	12
22	Mastoid Vibration Affects Dynamic Postural Control During Gait. Annals of Biomedical Engineering, 2016, 44, 2774-2784.	2.5	12
23	The Influence of Visual Perception of Self-Motion on Locomotor Adaptation to Unilateral Limb Loading. Journal of Motor Behavior, 2011, 43, 101-111.	0.9	11
24	Stroke Survivors Control the Temporal Structure of Variability During Reaching in Dynamic Environments. Annals of Biomedical Engineering, 2013, 41, 366-376.	2.5	10
25	Temporal Structure of Support Surface Translations Drive the Temporal Structure of Postural Control During Standing. Annals of Biomedical Engineering, 2015, 43, 2699-2707.	2.5	10
26	Mastoid vibration affects dynamic postural control during gait in healthy older adults. Scientific Reports, 2017, 7, 41547.	3.3	10
27	Movement variability: A perspective on success in sports, health, and life. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 758-759.	2.9	9
28	Locomotor patterns change over time when exposed to an uneven surface. Journal of Experimental Biology, 2019, 222, .	1.7	9
29	Path integration: Effect of curved path complexity and sensory system on blindfolded walking. Gait and Posture, 2013, 37, 154-158.	1.4	8
30	Transitions in persistence of postural dynamics depend on the velocity and structure of postural perturbations. Experimental Brain Research, 2018, 236, 1491-1500.	1.5	8
31	Scaling oscillatory platform frequency reveals recurrence of intermittent postural attractor states. Scientific Reports, 2018, 8, 11580.	3.3	8
32	A Modular Robotic System for Assessment and Exercise of Human Movement. Lecture Notes in Networks and Systems, 2017, , 61-70.	0.7	7
33	Dynamics of Stride Interval Characteristics during Continuous Stairmill Climbing. Frontiers in Physiology, 2017, 8, 609.	2.8	7
34	Using mastoid vibration to detect age-related uni/bilateral vestibular deterioration during standing. Journal of Vestibular Research: Equilibrium and Orientation, 2022, 32, 145-154.	2.0	6
35	Soft-Tissue Movement at the Foot During the Stance Phase of Walking. Journal of the American Podiatric Medical Association, 2011, 101, 25-34.	0.3	5
36	Development and feasibility study of a sensory-enhanced robot-aided motor training in stroke rehabilitation. , 2009, 2009, 5965-8.		4

#	Article	IF	Citations
37	Retention of fundamental surgical skills learned in robot-assisted surgery. Journal of Robotic Surgery, 2012, 6, 301-309.	1.8	4
38	Lower limb joint angle variability and dimensionality are different in stairmill climbing and treadmill walking. Royal Society Open Science, 2018, 5, 180996.	2.4	3
39	Comparison of a portable balance board for measures of persistence in postural sway. Journal of Biomechanics, 2020, 100, 109600.	2.1	3
40	The Kickstart Walk Assist System for improving balance and walking function in stroke survivors: a feasibility study. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 42.	4.6	3
41	Muscle activation patterns in healthy subjects and stroke survivors in an unpredictable robotic environment. International Journal of Mechatronics and Automation, 2012, 2, 1.	0.2	2
42	Skills Learning in Robot-Assisted Surgery Is Benefited by Task-Specific Augmented Feedback. Surgical Innovation, 2013, 20, 639-647.	0.9	2
43	Persistence in postural dynamics is dependent on constraints of vision, postural orientation, and the temporal structure of support surface translations. Experimental Brain Research, 2019, 237, 601-610.	1.5	2
44	Changes in Sensorimotor Cortical Activation in Children Using Prostheses and Prosthetic Simulators. Brain Sciences, 2021, 11, 991.	2.3	2
45	Developing a sensory-enhanced robot-aided motor training programme. International Journal of Mechatronics and Automation, 2011, 1, 236.	0.2	1
46	A passive exoskeleton can assist split-belt adaptation. Experimental Brain Research, 2022, 240, 1159.	1.5	1
47	Passive Exoskeleton-Assisted Gait Shows a Unique Interlimb Coordination Signature Without Restricting Regular Walking. Frontiers in Physiology, 0, 13, .	2.8	1
48	PP_008. Archives of Physical Medicine and Rehabilitation, 2006, 87, e2.	0.9	0
49	The effect of distraction on robot-assisted surgical performance. Journal of the American College of Surgeons, 2009, 209, S107.	0.5	0
50	A Quantitative Method for Assessing Stroke-impaired Sense of Motor Effort: A Preliminary Study. Medicine and Science in Sports and Exercise, 2008, 40, S318.	0.4	0
51	Abstract T P78: Neurovascular Changes Characterize Split-belt Adaptation in Chronic Stroke Survivors: Preliminary Results. Stroke, 2015, 46, .	2.0	0
52	Abstract TMP42: Gait Adaptation in Virtual Reality: Does Baseline Spatio-temporal Asymmetry in Stroke Survivors Play a Role?. Stroke, 2018, 49, .	2.0	0
53	Abstract WP199: Enhancing Perception of Self-motion After Stroke Using Virtual Reality Affects Gait Adaptation in Those With High Levels of Gait Asymmetry. Stroke, 2019, 50, .	2.0	0
54	Abstract T P120: Perception of Self-Motion using a Virtual Reality Environment Enhances Gait Adaptation in Chronic Stroke Survivors. Stroke, 2015, 46, .	2.0	0