Vicki Komisar

List of Publications by Year
in descending order

27	332	933264 10	839398 18
papers	citations	h-index	g-index

28	28	28	247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Age-related differences in dynamic balance control during stair descent and effect of varying step geometry. Applied Ergonomics, 2016, 52, 275-284.	1.7	64
2	The Effect of Fall Biomechanics on Risk for Hip Fracture in Older Adults: A Cohort Study of Videoâ€Captured Falls in Longâ€Term Care. Journal of Bone and Mineral Research, 2020, 35, 1914-1922.	3.1	48
3	Baseline Characteristics of Dual-Axis Cervical Accelerometry Signals. Annals of Biomedical Engineering, 2010, 38, 1048-1059.	1.3	35
4	Influence of handrail height and fall direction on center of mass control and the physical demands of reach-to-grasp balance recovery reactions. Gait and Posture, 2018, 60, 209-216.	0.6	24
5	A novel method for synchronizing motion capture with other data sources for millisecond-level precision. Gait and Posture, 2017, 51, 125-131.	0.6	21
6	Characterizing the demands of backward balance loss and fall recovery during stair descent to prevent injury. Applied Ergonomics, 2019, 81, 102900.	1.7	16
7	Use of handrails for balance and stability: Characterizing loading profiles in younger adults. Applied Ergonomics, 2019, 76, 20-31.	1.7	14
8	Accuracy of Kinovea software in estimating body segment movements during falls captured on standard video: Effects of fall direction, camera perspective and video calibration technique. PLoS ONE, 2021, 16, e0258923.	1.1	14
9	A kinematic analysis of balance recovery following an unexpected forward balance loss during stair descent. Applied Ergonomics, 2021, 92, 103317.	1.7	12
10	Individual, task, and environmental influences on balance recovery: a narrative review of the literature and implications for preventing occupational falls. IISE Transactions on Occupational Ergonomics and Human Factors, 2019, 7, 91-118.	0.5	11
11	Effect of Holding Objects on the Occurrence of Head Impact in Falls by Older Adults: Evidence From Real-Life Falls in Long-Term Care. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1463-1470.	1.7	11
12	Injuries from falls by older adults in long-term care captured on video: Prevalence of impacts and injuries to body parts. BMC Geriatrics, 2022, 22, 343.	1.1	11
13	Effect of handrail height and age on the timing and speed of reach-to-grasp balance reactions during slope descent. Applied Ergonomics, 2019, 81, 102873.	1.7	9
14	Extending the center of pressure to incorporate handhold forces: Derivation and sample application. Journal of Biomechanics, 2020, 104, 109727.	0.9	9
15	The Role of Fall Biomechanics in the Cause and Prevention of Bone Fractures in Older Adults. Current Osteoporosis Reports, 2021, 19, 381-390.	1.5	7
16	A comparison of the magnitude and duration of linear and rotational head accelerations generated during hand-, elbow- and shoulder-to-head checks delivered by hockey players. Journal of Biomechanics, 2019, 91, 43-50.	0.9	6
17	Quantifying Segmental Contributions to Center-of-Mass Motion During Dynamic Continuous Support Surface Perturbations Using Simplified Estimation Models. Journal of Applied Biomechanics, 2020, 36, 198-208.	0.3	5
18	Estimating Trunk and Neck Stabilization for Avoiding Head Impact during Real-World Falls in Older Adults. , 2020, 2020, 4823-4826.		4

#	Article	IF	Citations
19	The effect of handrail cross-sectional design and age on applied handrail forces during reach-to-grasp balance reactions. Journal of Biomechanics, 2021, 129, 110788.	0.9	4
20	The Effect of Wave Motion Intensities on Performance in a Simulated Search and Rescue Task and the Concurrent Demands of Maintaining Balance. Human Factors, 2022, 64, 579-588.	2.1	3
21	Effects of the Mobility-Fit Physical Activity Program on Strength and Mobility in Older Adults in Assisted Living: A Feasibility Study. International Journal of Environmental Research and Public Health, 2022, 19, 5453.	1.2	2
22	Using Role-Playing Simulations to Teach Quality Control in the Design of Medical Devices. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	1
23	TEACHING CREDIBLE VALIDATION AND VERIFICATION METHODS TO A LARGE, MULTIDISCIPLINARY FIRST-YEAR ENGINEERING DESIGN CLASS. Proceedings of the Canadian Engineering Education Association (CEEA), 2018, , .	0.2	0
24	Using a Multidisciplinary Team-Based Challenge to Promote Brainstorming and Prototyping of Medical Devices. Proceedings of the Canadian Engineering Education Association (CEEA), 2018, , .	0.2	0
25	Effect of Handrail Height and Age on Trunk and Shoulder Kinematics Following Perturbation-Evoked Grasping Reactions During Gait. Human Factors, 2021, , 001872082110136.	2.1	0
26	HOW FINE ARE THE EMPERORâ€™S CLOTHES? â€“ MOTIVATING CRITICAL AND ETHICAL DESIGN PRACTICES BY DECONSTRUCTING ENGINEERING CODES AND STANDARDS. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	0
27	The Effect of Handrail Cross-Sectional Design and Age on the Speed and Quality of Reach-To-Grasp Reactions to Recover Balance. Human Factors, 2024, 66, 56-70.	2.1	0