

# Bernard J Martin

## List of Publications by Year in descending order

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113  
papers

2,104  
citations

257357

24  
h-index

276775

41  
g-index

113  
all docs

113  
docs citations

113  
times ranked

1490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perceived Physical Discomfort and Its Associations With Home Office Characteristics During the COVID-19 Pandemic. <i>Human Factors</i> , 2024, 66, 916-932.	2.1	10
2	Effect of Periodic Voluntary Interventions on Trapezius Activation and Fatigue During Light Upper Limb Activity. <i>Human Factors</i> , 2023, 65, 1491-1505.	2.1	2
3	Occupational and Environmental Health Effects of Informal Electronic Waste Recycling – A Focus on Agbogbloshie, Ghana. <i>Lecture Notes in Networks and Systems</i> , 2021, 222, 746-752.	0.5	2
4	Work-Related Exposures and Musculoskeletal Disorder Symptoms Among Informal E-Waste Recyclers at Agbogbloshie, Ghana. <i>Lecture Notes in Networks and Systems</i> , 2021, 222, 677-681.	0.5	3
5	Musculoskeletal Disorders in Unstructured, Unregulated Work: Assessment Methods and Injuries. <i>Lecture Notes in Networks and Systems</i> , 2021, 222, 720-727.	0.5	2
6	Musculoskeletal Disorder Symptoms among Workers at an Informal Electronic-Waste Recycling Site in Agbogbloshie, Ghana. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2055.	1.2	11
7	A preliminary assessment of physical work exposures among electronic waste workers at Agbogbloshie, Accra Ghana. <i>International Journal of Industrial Ergonomics</i> , 2021, 82, 103096.	1.5	16
8	Comparison of Physiological Effects Induced by Two Compression Stockings and Regular Socks During Prolonged Standing Work. <i>Human Factors</i> , 2021, , 001872082110221.	2.1	3
9	Age-related differences in proprioceptive asymmetries. <i>Neuroscience Letters</i> , 2021, 757, 135992.	1.0	2
10	A planar piecewise continuous lumped muscle parameter model for prediction of walking gait. <i>Gait and Posture</i> , 2021, 88, 146-154.	0.6	1
11	Comparison of ergonomic risk factors and work-related musculoskeletal disorders among dismantler and burners of electronic waste in Agbogbloshie, Accra Ghana. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2021, 65, 715-719.	0.2	1
12	Does treadmill workstation use affect user's kinematic gait symmetry?. <i>PLoS ONE</i> , 2021, 16, e0261140.	1.1	5
13	Physiological and neuromotor changes induced by two different stand-walk-sit work rotations. <i>Ergonomics</i> , 2020, 63, 163-174.	1.1	10
14	Age-Dependent Asymmetry of Wrist Position Sense Is Not Influenced by Stochastic Tactile Stimulation. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 65.	1.0	1
15	sEMG: A Window Into Muscle Work, but Not Easy to Teach and Delicate to Practice – A Perspective on the Difficult Path to a Clinical Tool. <i>Frontiers in Neurology</i> , 2020, 11, 588451.	1.1	5
16	Physiological changes during prolonged standing and walking considering age, gender and standing work experience. <i>Ergonomics</i> , 2020, 63, 579-592.	1.1	15
17	Development of an observation-based tool for ergonomic exposure assessment in informal electronic waste recycling and other unregulated non-repetitive work. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 905-909.	0.2	6
18	Roles of the prefrontal cortex in learning to time the onset of pre-existing motor programs. <i>PLoS ONE</i> , 2020, 15, e0241562.	1.1	12

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19	Pneumatic rock drill vs. electric rotary hammer drill: Productivity, vibration, dust, and noise when drilling into concrete. <i>Applied Ergonomics</i> , 2019, 74, 31-36.	1.7	20
20	Processes and challenges associated with informal electronic waste recycling at Agbogbloshie, a suburb of Accra, Ghana. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 938-942.	0.2	25
21	Shoulder muscular activity in individuals with low back pain and spinal cord injury during seated manual load transfer tasks. <i>Ergonomics</i> , 2018, 61, 1094-1101.	1.1	5
22	Muscular and Vascular Issues Induced by Prolonged Standing With Different Work "Rest Cycles With Active or Passive Breaks. <i>Human Factors</i> , 2018, 60, 806-821.	2.1	22
23	76...Effects of concrete bit wear on drill handle vibration, drilling productivity and changes in bit tip geometry. , 2018, , .		0
24	The Effect of Vibrotactile Cuing on Recovery Strategies From a Treadmill-Induced Trip. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 235-243.	2.7	19
25	Effect of bit wear on hammer drill handle vibration and productivity. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 640-649.	0.4	15
26	A novel pneumatic stimulator for the investigation of noise-enhanced proprioception. , 2017, 2017, 25-30.		4
27	A new fall-inducing technology platform: Development and assessment of a programmable split-belt treadmill. , 2017, 2017, 3777-3780.		8
28	Upper Limb Asymmetry in the Sense of Effort Is Dependent on Force Level. <i>Frontiers in Psychology</i> , 2017, 8, 643.	1.1	18
29	Long-Lasting Changes in Muscle Twitch Force During Simulated Work While Standing or Walking. <i>Human Factors</i> , 2016, 58, 1117-1127.	2.1	23
30	Vibrotactile cuing revisited to reveal a possible challenge to sensorimotor adaptation. <i>Experimental Brain Research</i> , 2016, 234, 3523-3530.	0.7	10
31	The effects of attractive vs. repulsive instructional cuing on balance performance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 29.	2.4	23
32	Long-Term Muscle Fatigue After Standing Work. <i>Human Factors</i> , 2015, 57, 1162-1173.	2.1	45
33	A cutaneous positioning system. <i>Experimental Brain Research</i> , 2015, 233, 1237-1245.	0.7	18
34	Sense of effort revisited: Relative contributions of sensory feedback and efferent copy. <i>Neuroscience Letters</i> , 2014, 561, 208-212.	1.0	36
35	Negotiated control between the manual and visual systems for visually guided hand reaching movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 102.	2.4	1
36	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.	2.4	23

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37	Manual movement coordination adapted to spinal cord injury and low back pain. International Journal of Industrial Ergonomics, 2013, 43, 1-8.	1.5	6
38	Effects of task characteristics on unimanual and bimanual movement times. Ergonomics, 2013, 56, 612-622.	1.1	5
39	Functioning of peripheral Ia pathways in infants with Myelomeningocele. , 2013, 36, 147-161.		3
40	Postural Reorganization Induced by Torso Cutaneous Covibration. Journal of Neuroscience, 2013, 33, 7870-7876.	1.7	22
41	Biodynamic Characteristics of Upper Limb Reaching Movements of the Seated Human Under Whole-Body Vibration. Journal of Applied Biomechanics, 2013, 29, 12-22.	0.3	5
42	Vibration-Induced Motor Responses of Infants With and Without Myelomeningocele. Physical Therapy, 2012, 92, 537-550.	1.1	4
43	Three-dimensional vibration transmission through the upper limb when performing reaching movements in vehicle. International Journal of Human Factors Modelling and Simulation, 2012, 3, 359.	0.1	1
44	Comparison of non-volitional postural responses induced by two types of torso based vibrotactile stimulations. , 2012, , .		7
45	Upper limb kinesthetic asymmetries: Gender and handedness effects. Neuroscience Letters, 2012, 516, 188-192.	1.0	25
46	Does the Central Nervous System learn to plan bimanual movements based on its expectation of availability of visual feedback?. Human Movement Science, 2012, 31, 1409-1424.	0.6	4
47	Effects of co-vibrotactile stimulations around the torso on non-volitional postural responses. , 2012, 2012, 6149-52.		1
48	Directional postural responses induced by vibrotactile stimulations applied to the torso. Experimental Brain Research, 2012, 222, 471-482.	0.7	47
49	Asymmetry in grasp force matching and sense of effort. Experimental Brain Research, 2012, 217, 273-285.	0.7	36
50	Functioning of peripheral Ia pathways in infants with typical development: responses in antagonist muscle pairs. Experimental Brain Research, 2011, 208, 581-593.	0.7	13
51	Contribution of sensory and motor components to motor control asymmetries: An analytical model approach. , 2011, 2011, 4064-7.		4
52	Adaptation of Torso Movement Strategies in Persons With Spinal Cord Injury or Low Back Pain. Spine, 2010, 35, 1753-1759.	1.0	14
53	Eye-hand coordination of symmetric bimanual reaching tasks: temporal aspects. Experimental Brain Research, 2010, 203, 391-405.	0.7	25
54	A model of head movement contribution for gaze transitions. Ergonomics, 2010, 53, 447-457.	1.1	12

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55	Effects of Posture and Movement on Vibration Transmissibility Affecting Human Reach Performance under Vehicle Vibration. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1714-1718.	0.2	0
56	Movement Control Phases of Upper Body Coordination in Visually Guided Reach Movements. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 834-838.	0.2	0
57	Position sense asymmetry. Experimental Brain Research, 2009, 192, 87-95.	0.7	71
58	Low mean level sustained and intermittent grip exertions: Influence of age on fatigue and recovery. Ergonomics, 2009, 52, 1287-1297.	1.1	18
59	Object and Target Size Interactions in Placement Tasks. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 940-944.	0.2	5
60	Three-Dimensional Joint Kinematics of the Upper Extremity in Reach Movements under Whole-Body Vibration Exposure. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1000-1004.	0.2	1
61	Models of Motor Control and Performance. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 903-906.	0.2	1
62	Upper Body Coordination in Reach Movements. , 2008, , .		0
63	Three-Dimensional Reach Kinematics of the Upper Extremity in a Dynamic Vehicle Environment. , 2008, , .		1
64	Age-Related Differences in Upper Limb Proprioceptive Acuity. Perceptual and Motor Skills, 2007, 104, 1297-1309.	0.6	115
65	Predictors of perceived effort in the shoulder during load transfer tasks. Ergonomics, 2007, 50, 1004-1016.	1.1	36
66	Head movement control in visually guided tasks: Postural goal and optimality. Computers in Biology and Medicine, 2007, 37, 1009-1019.	3.9	11
67	The relationship between shoulder torques and the perception of muscular effort in loaded reaches. Ergonomics, 2006, 49, 1036-1051.	1.1	55
68	Development of Active Human Response Model to Ride Motion. , 2006, , .		1
69	The Role of Visual and Manual Demand in Movement and Posture Organization. , 2006, , .		0
70	A memory-based model for planning target reach postures in the presence of obstructions. Ergonomics, 2006, 49, 1565-1580.	1.1	12
71	Effect of Fatigue on Muscle Elasticity in the Human Forearm Using Ultrasound Strain Imaging. , 2006, 2006, 4490-3.		21
72	Effect of Fatigue on Muscle Elasticity in the Human Forearm Using Ultrasound Strain Imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0

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73	Representing and identifying alternative movement techniques for goal-directed manual tasks. <i>Journal of Biomechanics</i> , 2005, 38, 519-527.	0.9	46
74	A computer algorithm for representing spatial-temporal structure of human motion and a motion generalization method. <i>Journal of Biomechanics</i> , 2005, 38, 2321-2329.	0.9	19
75	Effects of low back disability status on lower back discomfort during sustained and cyclical trunk flexion. <i>Ergonomics</i> , 2005, 48, 219-233.	1.1	16
76	Modeling the Coordinated Movements of the Head and Hand Using Differential Inverse Kinematics. , 2004, , .		5
77	The effects of target location on temporal coordination of the upper body during 3D seated reaches considering the range of motion. <i>International Journal of Industrial Ergonomics</i> , 2004, 34, 395-405.	1.5	17
78	Modelling of shoulder and torso perception of effort in manual transfer tasks. <i>Ergonomics</i> , 2004, 47, 927-944.	1.1	25
79	The Effects of Work Pace on Within-Participant and Between-Participant Keying Force, Electromyography, and Fatigue. <i>Human Factors</i> , 2002, 44, 51-61.	2.1	30
80	A Motion Modification Algorithm for Memory-Based Human Motion Simulation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2002, 46, 1172-1175.	0.2	4
81	Ergonomic Analysis of Pallets and Drum Handling. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2002, 46, 1157-1161.	0.2	0
82	Vibration-induced muscle fatigue, a possible contribution to musculoskeletal injury. <i>European Journal of Applied Physiology</i> , 2002, 88, 134-140.	1.2	51
83	Exposure to forceful exertions and vibration in a foundry. <i>International Journal of Industrial Ergonomics</i> , 2002, 30, 163-179.	1.5	32
84	Floor Composition Affects Performance and Muscle Fatigue Following a Basketball Task. <i>Journal of Applied Biomechanics</i> , 2000, 16, 157-168.	0.3	4
85	Medical Management and Rehabilitation in the Workplace: Emerging Issues. <i>Journal of Occupational Rehabilitation</i> , 2000, 10, 1-6.	1.2	3
86	Estimating Forearm and Neck Muscle Load Using Surface EMG Amplitude: Methodologic Issues. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 5-525-5-528.	0.2	0
87	Comparison of Muscle Activity during Use of Computer Pointing Devices in Cad Operators. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 633-636.	0.2	1
88	Exposure to Forceful Exertions and Vibration in a Foundry. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 17-20.	0.2	3
89	An Ergonomic Analysis of Waste Container Handling: Part II. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 5-71-5-74.	0.2	0
90	Effects of Keyboards, Armrests, and Alternating Keying Positions on Subjective Discomfort and Preferences among Data Entry Operators. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 5-598-5-598.	0.2	1

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91	Muscle responses to simulated torque reactions of hand-held power tools. <i>Ergonomics</i> , 1999, 42, 146-159.	1.1	53
92	The Effects of Keyswitch Stiffness on Typing Force, Finger Electromyography, and Subjective Discomfort. <i>AIHA Journal</i> , 1999, 60, 762-769.	0.4	54
93	Effects of hand vibration on reflex behaviors and pain perception – A pilot study. <i>International Journal of Industrial Ergonomics</i> , 1999, 23, 629-632.	1.5	1
94	Title is missing!. <i>Journal of Occupational Rehabilitation</i> , 1999, 9, 247-265.	1.2	2
95	The Effects of Keyswitch Stiffness on Typing Force, Finger Electromyography, and Subjective Discomfort. <i>AIHA Journal</i> , 1999, 60, 762-769.	0.4	9
96	Comparison of Surface to Indwelling Extrinsic Finger Muscle EMG during use of Computer Pointing Devices. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1998, 42, 541-545.	0.2	2
97	The effect of keyboard keyswitch make force on applied force and finger flexor muscle activity. <i>Ergonomics</i> , 1997, 40, 800-808.	1.1	75
98	Analysis of the tonic vibration reflex: influence of vibration variables on motor unit synchronization and fatigue. <i>European Journal of Applied Physiology</i> , 1997, 75, 504-511.	1.2	173
99	A neural network model for simulation of torso muscle coordination. <i>Journal of Biomechanics</i> , 1997, 30, 251-258.	0.9	29
100	Effects of Key Stiffness on Force and the Development of Fatigue While Typing. <i>AIHA Journal</i> , 1996, 57, 849-854.	0.4	39
101	Distributed moment histogram: A neurophysiology based method of agonist and antagonist trunk muscle activity prediction. <i>Journal of Biomechanics</i> , 1996, 29, 1587-1596.	0.9	29
102	Keyboard Reaction Force and Finger Flexor Electromyograms during Computer Keyboard Work. <i>Human Factors</i> , 1996, 38, 654-664.	2.1	69
103	A back-propagation neural network model of lumbar muscle recruitment during moderate static exertions. <i>Journal of Biomechanics</i> , 1995, 28, 1015-1024.	0.9	41
104	Investigation of Applied Forces in Alphanumeric Keyboard Work. <i>AIHA Journal</i> , 1994, 55, 30-35.	0.4	72
105	Contribution of the tonic vibration reflex to muscle stress and muscle fatigue.. <i>Scandinavian Journal of Work, Environment and Health</i> , 1993, 19, 35-42.	1.7	60
106	Effects of Hand Vibration on Postural Stability. <i>Proceedings of the Human Factors Society Annual Meeting</i> , 1992, 36, 765-769.	0.1	0
107	Analysis of eye tracking movements using innovations generated by a Kalman filter. <i>Medical and Biological Engineering and Computing</i> , 1991, 29, 63-69.	1.6	74
108	A New Quantitative Indicator of Visual Fatigue. <i>IEEE Transactions on Biomedical Engineering</i> , 1987, BME-34, 23-29.	2.5	8

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109	A film projecting system as a diagnostic and training technique for eye movements of cerebral palsied children. <i>Electroencephalography and Clinical Neurophysiology</i> , 1978, 45, 122-127.	0.3	13
110	The HUMOSIM Ergonomics Framework: A New Approach to Digital Human Simulation for Ergonomic Analysis. , 0, , .		35
111	Posture and Motion Prediction: Perspectives for Unconstrained Head Movements. , 0, , .		2
112	Estimation of Body Links Transfer Functions in Vehicle Vibration Environment. , 0, , .		2
113	Scheduling of Hand Movements in Bimanual Tasks. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , 0, 1, 612-620.	0.3	1