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	Analysis of the tonic vibration reflex: influence of vibration variables on motor unit synchronization and fatigue. European Journal of Applied Physiology, 1997, 75, 504-511.	1.2	173
2	Age-Related Differences in Upper Limb Proprioceptive Acuity. Perceptual and Motor Skills, 2007, 104, 1297-1309.	0.6	115
3	The effect of keyboard keyswitch make force on applied force and finger flexor muscle activity. Ergonomics, 1997, 40, 800-808.	1.1	75
4	Analysis of eye tracking movements using innovations generated by a Kalman filter. Medical and Biological Engineering and Computing, 1991, 29, 63-69.	1.6	74
5	Investigation of Applied Forces in Alphanumeric Keyboard Work. AIHA Journal, 1994, 55, 30-35.	0.4	72
6	Position sense asymmetry. Experimental Brain Research, 2009, 192, 87-95.	0.7	71
7	Keyboard Reaction Force and Finger Flexor Electromyograms during Computer Keyboard Work. Human Factors, 1996, 38, 654-664.	2.1	69
8	Contribution of the tonic vibration reflex to muscle stress and muscle fatigue.. Scandinavian Journal of Work, Environment and Health, 1993, 19, 35-42.	1.7	60
9	The relationship between shoulder torques and the perception of muscular effort in loaded reaches. Ergonomics, 2006, 49, 1036-1051.	1.1	55
10	The Effects of Keyswitch Stiffness on Typing Force, Finger Electromyography, and Subjective Discomfort. AIHA Journal, 1999, 60, 762-769.	0.4	54
11	Muscle responses to simulated torque reactions of hand-held power tools. Ergonomics, 1999, 42, 146-159.	1.1	53
12	Vibration-induced muscle fatigue, a possible contribution to musculoskeletal injury. European Journal of Applied Physiology, 2002, 88, 134-140.	1.2	51
13	Directional postural responses induced by vibrotactile stimulations applied to the torso. Experimental Brain Research, 2012, 222, 471-482.	0.7	47
14	Representing and identifying alternative movement techniques for goal-directed manual tasks. Journal of Biomechanics, 2005, 38, 519-527.	0.9	46
15	Long-Term Muscle Fatigue After Standing Work. Human Factors, 2015, 57, 1162-1173.	2.1	45
16	A back-propagation neural network model of lumbar muscle recruitment during moderate static exertions. Journal of Biomechanics, 1995, 28, 1015-1024.	0.9	41
17	Effects of Key Stiffness on Force and the Development of Fatigue While Typing. AIHA Journal, 1996, 57, 849-854.	0.4	39
18	Predictors of perceived effort in the shoulder during load transfer tasks. Ergonomics, 2007, 50, 1004-1016.	1.1	36

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19	Asymmetry in grasp force matching and sense of effort. Experimental Brain Research, 2012, 217, 273-285.	0.7	36
20	Sense of effort revisited: Relative contributions of sensory feedback and efferent copy. Neuroscience Letters, 2014, 561, 208-212.	1.0	36
21	The HUMOSIM Ergonomics Framework: A New Approach to Digital Human Simulation for Ergonomic Analysis. , 0, , .		35
22	Exposure to forceful exertions and vibration in a foundry. International Journal of Industrial Ergonomics, 2002, 30, 163-179.	1.5	32
23	The Effects of Work Pace on Within-Participant and Between-Participant Keying Force, Electromyography, and Fatigue. Human Factors, 2002, 44, 51-61.	2.1	30
24	Distributed moment histogram: A neurophysiology based method of agonist and antagonist trunk muscle activity prediction. Journal of Biomechanics, 1996, 29, 1587-1596.	0.9	29
25	A neural network model for simulation of torso muscle coordination. Journal of Biomechanics, 1997, 30, 251-258.	0.9	29
26	Modelling of shoulder and torso perception of effort in manual transfer tasks. Ergonomics, 2004, 47, 927-944.	1.1	25
27	Eyeâ€“hand coordination of symmetric bimanual reaching tasks: temporal aspects. Experimental Brain Research, 2010, 203, 391-405.	0.7	25
28	Upper limb kinesthetic asymmetries: Gender and handedness effects. Neuroscience Letters, 2012, 516, 188-192.	1.0	25
29	Processes and challenges associated with informal electronic waste recycling at Agbogbloshie, a suburb of Accra, Ghana. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 938-942.	0.2	25
30	The effects of actuator selection on non-volitional postural responses to torso-based vibrotactile stimulation. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 21.	2.4	23
31	Long-Lasting Changes in Muscle Twitch Force During Simulated Work While Standing or Walking. Human Factors, 2016, 58, 1117-1127.	2.1	23
32	The effects of attractive vs. repulsive instructional cuing on balance performance. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 29.	2.4	23
33	Postural Reorganization Induced by Torso Cutaneous Covibration. Journal of Neuroscience, 2013, 33, 7870-7876.	1.7	22
34	Muscular and Vascular Issues Induced by Prolonged Standing With Different Workâ€“Rest Cycles With Active or Passive Breaks. Human Factors, 2018, 60, 806-821.	2.1	22
35	Effect of Fatigue on Muscle Elasticity in the Human Forearm Using Ultrasound Strain Imaging. , 2006, 2006, 4490-3.		21
36	Pneumatic rock drill vs. electric rotary hammer drill: Productivity, vibration, dust, and noise when drilling into concrete. Applied Ergonomics, 2019, 74, 31-36.	1.7	20

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37	A computer algorithm for representing spatialâ€“temporal structure of human motion and a motion generalization method. Journal of Biomechanics, 2005, 38, 2321-2329.	0.9	19
38	The Effect of Vibrotactile Cuing on Recovery Strategies From a Treadmill-Induced Trip. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 235-243.	2.7	19
39	Low mean level sustained and intermittent grip exertions: Influence of age on fatigue and recovery. Ergonomics, 2009, 52, 1287-1297.	1.1	18
40	A cutaneous positioning system. Experimental Brain Research, 2015, 233, 1237-1245.	0.7	18
41	Upper Limb Asymmetry in the Sense of Effort Is Dependent on Force Level. Frontiers in Psychology, 2017, 8, 643.	1.1	18
42	The effects of target location on temporal coordination of the upper body during 3D seated reaches considering the range of motion. International Journal of Industrial Ergonomics, 2004, 34, 395-405.	1.5	17
43	Effects of low back disability status on lower back discomfort during sustained and cyclical trunk flexion. Ergonomics, 2005, 48, 219-233.	1.1	16
44	A preliminary assessment of physical work exposures among electronic waste workers at Agbogbloshie, Accra Ghana. International Journal of Industrial Ergonomics, 2021, 82, 103096.	1.5	16
45	Effect of bit wear on hammer drill handle vibration and productivity. Journal of Occupational and Environmental Hygiene, 2017, 14, 640-649.	0.4	15
46	Physiological changes during prolonged standing and walking considering age, gender and standing work experience. Ergonomics, 2020, 63, 579-592.	1.1	15
47	Adaptation of Torso Movement Strategies in Persons With Spinal Cord Injury or Low Back Pain. Spine, 2010, 35, 1753-1759.	1.0	14
48	A film projecting system as a diagnostic and training technique for eye movements of cerebral palsied children. Electroencephalography and Clinical Neurophysiology, 1978, 45, 122-127.	0.3	13
49	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
50	A memory-based model for planning target reach postures in the presence of obstructions. Ergonomics, 2006, 49, 1565-1580.	1.1	12
51	A model of head movement contribution for gaze transitions. Ergonomics, 2010, 53, 447-457.	1.1	12
52	Roles of the prefrontal cortex in learning to time the onset of pre-existing motor programs. PLoS ONE, 2020, 15, e0241562.	1.1	12
53	Head movement control in visually guided tasks: Postural goal and optimality. Computers in Biology and Medicine, 2007, 37, 1009-1019.	3.9	11
54	Musculoskeletal Disorder Symptoms among Workers at an Informal Electronic-Waste Recycling Site in Agbogbloshie, Ghana. International Journal of Environmental Research and Public Health, 2021, 18, 2055.	1.2	11

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55	Vibrotactile cuing revisited to reveal a possible challenge to sensorimotor adaptation. Experimental Brain Research, 2016, 234, 3523-3530.	0.7	10
56	Physiological and neuromotor changes induced by two different stand-walk-sit work rotations. Ergonomics, 2020, 63, 163-174.	1.1	10
57	Perceived Physical Discomfort and Its Associations With Home Office Characteristics During the COVID-19 Pandemic. Human Factors, 2024, 66, 916-932.	2.1	10
58	The Effects of Keyswitch Stiffness on Typing Force, Finger Electromyography, and Subjective Discomfort. AIHA Journal, 1999, 60, 762-769.	0.4	9
59	A New Quantitative Indicator of Visual Fatigue. IEEE Transactions on Biomedical Engineering, 1987, BME-34, 23-29.	2.5	8
60	A new fall-inducing technology platform: Development and assessment of a programmable split-belt treadmill. , 2017, 2017, 3777-3780.		8
61	Comparison of non-volitional postural responses induced by two types of torso based vibrotactile stimulations. , 2012, , .		7
62	Manual movement coordination adapted to spinal cord injury and low back pain. International Journal of Industrial Ergonomics, 2013, 43, 1-8.	1.5	6
63	Development of an observation-based tool for ergonomic exposure assessment in informal electronic waste recycling and other unregulated non-repetitive work. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 905-909.	0.2	6
64	Modeling the Coordinated Movements of the Head and Hand Using Differential Inverse Kinematics. , 2004, , .		5
65	Object and Target Size Interactions in Placement Tasks. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 940-944.	0.2	5
66	Effects of task characteristics on unimanual and bimanual movement times. Ergonomics, 2013, 56, 612-622.	1.1	5
67	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
68	Shoulder muscular activity in individuals with low back pain and spinal cord injury during seated manual load transfer tasks. Ergonomics, 2018, 61, 1094-1101.	1.1	5
69	sEMG: A Window Into Muscle Work, but Not Easy to Teach and Delicate to Practiceâ€"A Perspective on the Difficult Path to a Clinical Tool. Frontiers in Neurology, 2020, 11, 588451.	1.1	5
70	Does treadmill workstation use affect userâ€™s kinematic gait symmetry?. PLoS ONE, 2021, 16, e0261140.	1.1	5
71	Floor Composition Affects Performance and Muscle Fatigue Following a Basketball Task. Journal of Applied Biomechanics, 2000, 16, 157-168.	0.3	4
72	A Motion Modification Algorithm for Memory-Based Human Motion Simulation. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1172-1175.	0.2	4

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73	Contribution of sensory and motor components to motor control asymmetries: An analytical model approach. , 2011, 2011, 4064-7.		4
74	Vibration-Induced Motor Responses of Infants With and Without Myelomeningocele. Physical Therapy, 2012, 92, 537-550.	1.1	4
75	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
76	A novel pneumatic stimulator for the investigation of noise-enhanced proprioception. , 2017, 2017, 25-30.		4
77	Medical Management and Rehabilitation in the Workplace: Emerging Issues. Journal of Occupational Rehabilitation, 2000, 10, 1-6.	1.2	3
78	Exposure to Forceful Exertions and Vibration in a Foundry. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 17-20.	0.2	3
79	Functioning of peripheral Ia pathways in infants with Myelomeningocele. , 2013, 36, 147-161.		3
80	Work-Related Exposures and Musculoskeletal Disorder Symptoms Among Informal E-Waste Recyclers at Agbogbloshie, Ghana. Lecture Notes in Networks and Systems, 2021, 222, 677-681.	0.5	3
81	Comparison of Physiological Effects Induced by Two Compression Stockings and Regular Socks During Prolonged Standing Work. Human Factors, 2021, , 001872082110221.	2.1	3
82	Comparison of Surface to Indwelling Extrinsic Finger Muscle EMG during use of Computer Pointing Devices. Proceedings of the Human Factors and Ergonomics Society, 1998, 42, 541-545.	0.2	2
83	Title is missing!. Journal of Occupational Rehabilitation, 1999, 9, 247-265.	1.2	2
84	Posture and Motion Prediction: Perspectives for Unconstrained Head Movements. , 0, , .		2
85	Estimation of Body Links Transfer Functions in Vehicle Vibration Environment. , 0, , .		2
86	Occupational and Environmental Health Effects of Informal Electronic Waste Recycling â€“ A Focus on Agbogbloshie, Ghana. Lecture Notes in Networks and Systems, 2021, 222, 746-752.	0.5	2
87	Musculoskeletal Disorders in Unstructured, Unregulated Work: Assessment Methods and Injuries. Lecture Notes in Networks and Systems, 2021, 222, 720-727.	0.5	2
88	Age-related differences in proprioceptive asymmetries. Neuroscience Letters, 2021, 757, 135992.	1.0	2
89	Effect of Periodic Voluntary Interventions on Trapezius Activation and Fatigue During Light Upper Limb Activity. Human Factors, 2023, 65, 1491-1505.	2.1	2
90	Effects of hand vibration on reflex behaviors and pain perception â€“ A pilot study. International Journal of Industrial Ergonomics, 1999, 23, 629-632.	1.5	1

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91	Comparison of Muscle Activity during Use of Computer Pointing Devices in Cad Operators. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 633-636.	0.2	1
92	Effects of Keyboards, Armrests, and Alternating Keying Positions on Subjective Discomfort and Preferences among Data Entry Operators. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 5-598-5-598.	0.2	1
93	Development of Active Human Response Model to Ride Motion. , 2006, , .		1
94	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
95	Models of Motor Control and Performance. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 903-906.	0.2	1
96	Scheduling of Hand Movements in Bimanual Tasks. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 0, 1, 612-620.	0.3	1
97	Three-Dimensional Reach Kinematics of the Upper Extremity in a Dynamic Vehicle Environment. , 2008, , .		1
98	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
99	Effects of co-vibrotactile stimulations around the torso on non-volitional postural responses. , 2012, 2012, 6149-52.		1
100	Negotiated control between the manual and visual systems for visually guided hand reaching movements. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 102.	2.4	1
101	Age-Dependent Asymmetry of Wrist Position Sense Is Not Influenced by Stochastic Tactile Stimulation. Frontiers in Human Neuroscience, 2020, 14, 65.	1.0	1
102	A planar piecewise continuous lumped muscle parameter model for prediction of walking gait. Gait and Posture, 2021, 88, 146-154.	0.6	1
103	Comparison of ergonomic risk factors and work-related musculoskeletal disorders among dismantler and burners of electronic waste in Agbogbloshie, Accra Ghana. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 715-719.	0.2	1
104	Effects of Hand Vibration on Postural Stability. Proceedings of the Human Factors Society Annual Meeting, 1992, 36, 765-769.	0.1	0
105	Estimating Forearm and Neck Muscle Load Using Surface EMG Amplitude: Methodologic Issues. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 5-525-5-528.	0.2	0
106	An Ergonomic Analysis of Waste Container Handling: Part II. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 5-71-5-74.	0.2	0
107	Ergonomic Analysis of Pallets and Drum Handling. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1157-1161.	0.2	0
108	The Role of Visual and Manual Demand in Movement and Posture Organization. , 2006, , .		0

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109	Upper Body Coordination in Reach Movements. , 2008, , .		0
110	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
111	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
112	76â€...Effects of concrete bit wear on drill handle vibration, drilling productivity and changes in bit tip geometry. , 2018, , .		0
113	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