Peter W Johnson

List of Publications by Year in Descending Order

124 papers	2,035 citations	27 h-index	41 g-index
130 ext. papers	2,302 ext. citations	2.2 avg, IF	4.84 L-index

#	Paper	IF	Citations
124	Machine learning methods for electromyography error detection in field research: An application in full-shift field assessment of shoulder muscle activity in apple harvesting workers. *Applied Ergonomics*, **2022**, 98, 103607	4.2	2
123	Evaluation of Vertical and Multi-axial Suspension Seats for Reducing Vertical-dominant and Multi-axial Whole Body Vibration and Associated Neck and Low Back Joint Torque and Muscle Activity.. *Ergonomics*, **2022**, 1-29	2.9	
122	Automotive Seat Comfort and Vibration Performance Evaluation in Dynamic Settings. *Applied Sciences (Switzerland)*, **2022**, 12, 4033	2.6	1
121	The effects of different seat suspension types on occupantsSphysiologic responses and task performance: implications for autonomous and conventional vehicles. *Applied Ergonomics*, **2021**, 93, 103380	4.2	0
120	Preliminary comparison of vibration measurement accuracy between a low cost, portable acceleration measurement unit and a gold-standard accelerometer system. *Applied Ergonomics*, **2021**, 90, 103268	4.2	
119	Evaluation of a Suspension System to Reduce Whole Body Vibration Exposures Which Can Be Used in Ambulances. *Lecture Notes in Networks and Systems*, **2021**, 351-354	0.5	
118	A Comparison of Forklift Operator Whole-Body Vibration Exposures When Operating Forklifts with and Without a Mast Damping System. *Lecture Notes in Networks and Systems*, **2021**, 825-828	0.5	
117	Selection of wearable sensor measurements for monitoring and managing entry-level construction worker fatigue: a logistic regression approach. *Engineering, Construction and Architectural Management*, **2021**, ahead-of-print,	3.1	4
116	EFFECT OF MUSCULOSKELETAL DISORDERS AND ORGANIZATIONAL CLIMATE ON WELL-BEING OF DENTAL HYGIENISTS. *Journal of Evidence-based Dental Practice*, **2021**, 21, 101583	1.9	
115	Determining How Long Truck Driver Whole Body Vibration Exposure Data Has to Be Collected to Estimate Actual Daily Exposures. *Lecture Notes in Networks and Systems*, **2021**, 841-844	0.5	
114	Advancing the Safety, Health, and Well-Being of Commercial Driving Teams Who Sleep in Moving Semi-Trucks: The Tech4Rest Pilot Study. *Journal of Occupational and Environmental Medicine*, **2020**, 62, 1082-1096	2	1
113	The Evaluation of Seat-Comfort, Body Discomfort and Seat Vibration Performance in a Dynamic Testing Environment. *Proceedings of the Human Factors and Ergonomics Society*, **2020**, 64, 1530-1531	0.4	1
112	Comparisons of physical exposure between workers harvesting apples on mobile orchard platforms and ladders, part 1: Back and upper arm postures. *Applied Ergonomics*, **2020**, 89, 103193	4.2	2
111	Comparisons of physical exposure between workers harvesting apples on mobile orchard platforms and ladders, part 2: Repetitive upper arm motions. *Applied Ergonomics*, **2020**, 89, 103192	4.2	4
110	Whole-body vibration and back pain-related work absence among heavy equipment vehicle mining operators. *Occupational and Environmental Medicine*, **2019**, 76, 554-559	2.1	5
109	A feasibility study comparing objective and subjective field-based physical exposure measurements during apple harvesting with ladders and mobile platforms. *Journal of Agromedicine*, **2019**, 24, 268-278	1.9	6
108	Differences in typing forces, muscle activity, wrist posture, typing performance, and self-reported comfort among conventional and ultra-low travel keyboards. *Applied Ergonomics*, **2019**, 74, 10-16	4.2	5

107	The Characterization and Evaluation of an Intervention to Reduce Neonate Whole Body Vibration Exposures During Ambulance Transport. *Advances in Intelligent Systems and Computing*, **2019**, 670-677	0.4	2
106	Comparison of Whole-Body Vibration Exposures When Operating a City Bus with an Active, Passive and Static Suspension Bus Seat. *Proceedings of the Human Factors and Ergonomics Society*, **2019**, 63, 1052-1056	0.4	1
105	The impact of different seats and whole-body vibration exposures on truck driver vigilance and discomfort. *Ergonomics*, **2018**, 61, 528-537	2.9	25
104	A Randomized Controlled Trial of a Truck Seat Intervention: Part 1-Assessment of Whole Body Vibration Exposures. *Annals of Work Exposures and Health*, **2018**, 62, 990-999	2.4	12
103	A Randomized Controlled Trial of a Truck Seat Intervention: Part 2-Associations Between Whole-Body Vibration Exposures and Health Outcomes. *Annals of Work Exposures and Health*, **2018**, 62, 1000-1011	2.4	9
102	Exposure to whole-body vibration and hospitalization due to lumbar disc herniation. *International Archives of Occupational and Environmental Health*, **2018**, 91, 689-694	3.2	15
101	The effect of a multi-axis suspension on whole body vibration exposures and physical stress in the neck and low back in agricultural tractor applications. *Applied Ergonomics*, **2018**, 68, 80-89	4.2	33
100	Whole-Body Vibration Exposures Among Solid Waste Collecting Truck Operators. *Proceedings of the Human Factors and Ergonomics Society*, **2018**, 62, 860-864	0.4	1
99	Comparisons of Whole Body Vibration, Muscle Activity and Non-driving Task Performance between Different Seat Suspensions in an Autonomous Passenger Car Application. *Proceedings of the Human Factors and Ergonomics Society*, **2018**, 62, 1848-1852	0.4	1
98	Effects of Key Travel Distances on Biomechanical Exposures and Typing Performance During UltraLow Key Travel Keyboards. *Proceedings of the Human Factors and Ergonomics Society*, **2017**, 61, 981-985	0.4	1
97	Communicating the Value of Ergonomics to Management Part 2: Ergonomics ROI Case Study Applications. *Proceedings of the Human Factors and Ergonomics Society*, **2017**, 61, 973-975	0.4	1
96	Predicting Forearm Physical Exposures During Computer Work Using Self-Reports, Software-Recorded Computer Usage Patterns, and Anthropometric and Workstation Measurements. *Annals of Work Exposures and Health*, **2017**, 62, 124-137	2.4	4
95	Assessment of Whole-Body Vibration Exposure in Mining Earth-moving Equipment and Other Vehicles Used in Surface Mining. *Annals of Work Exposures and Health*, **2017**, 61, 669-680	2.4	26
94	Risk Factors for Low Back Disorders in Saskatchewan Farmers: Field-based Exposure Assessment to Build a Foundation for Epidemiological Studies. *JMIR Research Protocols*, **2016**, 5, e111	2	11
93	Whole Body Vibration Exposures and Health Status among Professional Truck Drivers: A Cross-sectional Analysis. *Annals of Occupational Hygiene*, **2016**, 60, 936-48		26
92	The Comparisons of Whole Body Vibration Exposures and Supporting Musculature Loading between Single- and Multi-axial Suspension Seats during Agricultural Tractor Operation. *Proceedings of the Human Factors and Ergonomics Society*, **2016**, 60, 923-927	0.4	1
91	Comparing the Whole Body Vibration Exposures across Three Truck Seats. *Proceedings of the Human Factors and Ergonomics Society*, **2016**, 60, 933-936	0.4	1
90	Cross-sectional Analysis of Whole Body Vibration Exposures and Health Status among Long-haul Truck Drivers. *Proceedings of the Human Factors and Ergonomics Society*, **2016**, 60, 928-932	0.4	2

89	Comparison of whole-body vibration exposures in buses: effects and interactions of bus and seat design. *Ergonomics*, **2015**, 58, 1133-42	2.9	14
88	Office workers with high effort-reward imbalance and overcommitment have greater decreases in heart rate variability over a 2-h working period. *International Archives of Occupational and Environmental Health*, **2015**, 88, 565-75	3.2	15
87	The effects of work surface hardness on mechanical stress, muscle activity, and wrist postures. *Work*, **2015**, 52, 231-44	1.6	5
86	Evaluation of flat, angled, and vertical computer mice and their effects on wrist posture, pointing performance, and preference. *Work*, **2015**, 52, 245-53	1.6	5
85	Comparing Upper Arm and Back Postural Exposures between Apple Harvesting with Ladders and Mobile Platform. *Proceedings of the Human Factors and Ergonomics Society*, **2015**, 59, 1252-1256	0.4	3
84	Whole Body Vibration Exposures in Long-haul Truck Drivers. *Proceedings of the Human Factors and Ergonomics Society*, **2015**, 59, 1274-1278	0.4	5
83	Office workersScomputer use patterns are associated with workplace stressors. *Applied Ergonomics* , **2014**, 45, 1660-7	4.2	15
82	Differences in typing forces, muscle activity, comfort, and typing performance among virtual, notebook, and desktop keyboards. *Applied Ergonomics*, **2014**, 45, 1406-13	4.2	41
81	Evaluation of Contact Pressure and Biomechanical Exposures on Different Work Surface Hardness. *Proceedings of the Human Factors and Ergonomics Society*, **2014**, 58, 1571-1574	0.4	
80	Fatigue development in the finger flexor muscle differs between keyboard and mouse use. *European Journal of Applied Physiology*, **2014**, 114, 2469-82	3.4	9
79	Comparison of Exposure to Repetitive Upper Arm Motions and Non-neutral Upper Arm Postures between Apple Harvesting with Ladders and Mobile Platforms. *Proceedings of the Human Factors and Ergonomics Society*, **2014**, 58, 1585-1589	0.4	1
78	Differences in the three-dimensional typing forces between short and long travel keyboards. *Proceedings of the Human Factors and Ergonomics Society*, **2014**, 58, 1447-1450	0.4	2
77	Prediction of trapezius muscle activity and shoulder, head, neck, and torso postures during computer use: results of a field study. *BMC Musculoskeletal Disorders*, **2014**, 15, 292	2.8	7
76	The effect of key size of touch screen virtual keyboards on productivity, usability, and typing biomechanics. *Human Factors*, **2014**, 56, 1235-48	3.8	27
75	Whole body vibration exposures in bus drivers: A comparison between a high-floor coach and a low-floor city bus. *International Journal of Industrial Ergonomics*, **2013**, 43, 9-17	2.9	50
74	Workday Arm Elevation Exposure: A Comparison Between Two Professions. *IIE Transactions on Occupational Ergonomics and Human Factors*, **2013**, 1, 119-127		1
73	Using electrical stimulation to measure physiological changes in the human extensor carpi ulnaris muscle after prolonged low-level repetitive ulnar deviation. *Applied Ergonomics*, **2013**, 44, 35-41	4.2	12
72	Anthropometry-corrected exposure modeling as a method to improve trunk posture assessment with a single inclinometer. *Journal of Occupational and Environmental Hygiene*, **2013**, 10, 143-54	2.9	6

71	The effect of over-commitment and reward on trapezius muscle activity and shoulder, head, neck, and torso postures during computer use in the field. *American Journal of Industrial Medicine*, **2013**, 56, 1190-200	2.7	20
70	The Effects of Virtual Keyboard Key Sizes on Typing Productivity and Physical Exposures. *Proceedings of the Human Factors and Ergonomics Society*, **2013**, 57, 887-891	0.4	1
69	The effect of overcommitment and reward on muscle activity, posture, and forces in the arm-wrist-hand region--a field study among computer workers. *Scandinavian Journal of Work, Environment and Health*, **2013**, 39, 379-89	4.3	14
68	The Effects of Touch Screen Virtual Keyboard Key Sizes on Typing Performance, Typing Biomechanics and Muscle Activity. *Lecture Notes in Computer Science*, **2013**, 239-244	0.9	4
67	Variance in direct exposure measures of typing force and wrist kinematics across hours and days among office computer workers. *Ergonomics*, **2012**, 55, 874-84	2.9	2
66	Whole-body vibration in heavy equipment operators of a front-end loader: role of task exposure and tire configuration with and without traction chains. *Journal of Safety Research*, **2012**, 43, 357-64	4	14
65	Developing a framework for assessing muscle effort and postures during computer work in the field: the effect of computer activities on neck/shoulder muscle effort and postures. *Work*, **2012**, 41 Suppl 1, 2377-80	1.6	2
64	Can digital signals from the keyboard capture force exposures during typing?. *Work*, **2012**, 41 Suppl 1, 2588-90	1.6	1
63	Whole-body vibration exposure in metropolitan bus drivers. *Occupational Medicine*, **2012**, 62, 519-24	2.1	25
62	Viability of using digital signals from the keyboard to capture typing force exposures. *Ergonomics*, **2012**, 55, 1395-403	2.9	4
61	Observed differences in upper extremity forces, muscle efforts, postures, velocities and accelerations across computer activities in a field study of office workers. *Ergonomics*, **2012**, 55, 670-81	2.9	36
60	Are there Differences in Force Exposures and Typing Productivity between Touchscreen and Conventional Keyboard?. *Proceedings of the Human Factors and Ergonomics Society*, **2012**, 56, 1104-1108	0.4	12
59	The effects of psychosocial factors on trapezius muscle activity levels during computer use. *Proceedings of the Human Factors and Ergonomics Society*, **2012**, 56, 1123-1127	0.4	
58	Children computer mouse use and anthropometry. *Work*, **2012**, 41 Suppl 1, 846-50	1.6	3
57	Whole Body Vibration Exposure and Seat Effective Amplitude Transmissibility of Air Suspension Seat in Different Bus Designs. *Proceedings of the Human Factors and Ergonomics Society*, **2012**, 56, 1218-1222	0.4	1
56	Thumb joint movement and muscular activity during mobile phone texting - A methodological study. *Journal of Electromyography and Kinesiology*, **2011**, 21, 363-70	2.5	48
55	Child Computer Use and Anthropometry. *Proceedings of the Human Factors and Ergonomics Society*, **2011**, 55, 1716-1719	0.4	1
54	Quantifying Whole Body Vibration Exposures in Metropolitan Bus Drivers: An Evaluation of Three Seats. *Noise and Vibration Worldwide*, **2011**, 42, 22-29	0.8	4

53	Technique, muscle activity and kinematic differences in young adults texting on mobile phones. *Ergonomics*, **2011**, 54, 477-87	2.9	61
52	Are there Differences in Typing Performance and Typing Forces between Short and Long travel Keyboards?. *Proceedings of the Human Factors and Ergonomics Society*, **2011**, 55, 954-957	0.4	2
51	Evaluating whole-body vibration reduction by comparison of active and passive suspension seats in semi-trucks. *Proceedings of the Human Factors and Ergonomics Society*, **2011**, 55, 1750-1754	0.4	10
50	Vehicle design influences whole body vibration exposures: effect of the location of the front axle relative to the cab. *Journal of Occupational and Environmental Hygiene*, **2011**, 8, 364-74	2.9	5
49	Validation of a software program for measuring fatigue-related changes in keystroke durations. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 7397-400	0.9	
48	Does elevating and tilting the input device support surface affect typing force and postural exposures of the wrist?. *Work*, **2011**, 39, 187-93	1.6	7
47	Using observation and self-report to predict mean, 90th percentile, and cumulative low back muscle activity in heavy industry workers. *Annals of Occupational Hygiene*, **2010**, 54, 595-606		6
46	The Effect of Luminance Distribution Patterns on Occupant Preference in a Daylit Office Environment. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2010**, 7, 103-122	3.5	71
45	Optimising sampling strategies: components of low-back EMG variability in five heavy industries. *Occupational and Environmental Medicine*, **2010**, 67, 853-60	2.1	1
44	Evidence-based guidelines for the wise use of computers by children: physical development guidelines. *Ergonomics*, **2010**, 53, 458-77	2.9	46
43	Whole body vibration exposures in forklift operators: comparison of a mechanical and air suspension seat. *Ergonomics*, **2010**, 53, 1385-94	2.9	42
42	Thumb postures and physical loads during mobile phone use - a comparison of young adults with and without musculoskeletal symptoms. *Journal of Electromyography and Kinesiology*, **2010**, 20, 127-35	2.5	83
41	User-centered design and evaluation of a next generation fixed-split ergonomic keyboard. *Work*, **2010**, 37, 445-56	1.6	14
40	Daily self-reports resulted in information bias when assessing exposure duration to computer use. *American Journal of Industrial Medicine*, **2010**, 53, 1142-9	2.7	7
39	Whole body vibration exposures in metropolitan bus drivers: A comparison of three seats. *Journal of Sound and Vibration*, **2010**, 329, 109-120	3.9	62
38	Finger flexor contractile properties and hemodynamics following a sustained submaximal contraction: A study using electrical stimulation and near-infrared spectroscopy. *International Journal of Industrial Ergonomics*, **2010**, 40, 153-160	2.9	7
37	EMG estimated mean, peak, and cumulative spinal compression of workers in five heavy industries. *International Journal of Industrial Ergonomics*, **2010**, 40, 448-454	2.9	12
36	Relation between index finger width and hand width anthropometric measures. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 823-6	0.9	2

35	The Notebook Computing Experience among University Students. *Proceedings of the Human Factors and Ergonomics Society*, **2009**, 53, 498-501	0.4	
34	Measuring posture for epidemiology: comparing inclinometry, observations and self-reports. *Ergonomics*, **2009**, 52, 1067-78	2.9	55
33	Psychosocial factors and shoulder symptom development among workers. *American Journal of Industrial Medicine*, **2009**, 52, 57-68	2.7	25
32	Typing keystroke duration changed after submaximal isometric finger exercises. *European Journal of Applied Physiology*, **2009**, 105, 93-101	3.4	14
31	Development and evaluation of an observational Back-Exposure Sampling Tool (Back-EST) for work-related back injury risk factors. *Applied Ergonomics*, **2009**, 40, 538-44	4.2	28
30	University studentsSnotebook computer use. *Applied Ergonomics*, **2009**, 40, 404-9	4.2	22
29	Design and evaluation of a curved computer keyboard. *Ergonomics*, **2009**, 52, 1529-39	2.9	6
28	Upper extremity biomechanics in computer tasks differ by gender. *Journal of Electromyography and Kinesiology*, **2009**, 19, 428-36	2.5	39
27	Inertia artefacts and their effect on the parameterisation of keyboard reaction forces. *Ergonomics*, **2009**, 52, 1259-64	2.9	4
26	Low mean level sustained and intermittent grip exertions: influence of age on fatigue and recovery. *Ergonomics*, **2009**, 52, 1287-97	2.9	16
25	Physical exposure differences between children and adults when using standard and small computer input devices. *Ergonomics*, **2008**, 51, 872-89	2.9	25
24	Evaluation of the Logitech Wave Keyboard. *Proceedings of the Human Factors and Ergonomics Society*, **2008**, 52, 1030-1034	0.4	
23	Relation between mouse button click duration and muscle contraction time. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2299-301	0.9	4
22	A wide range of activity duration cutoffs provided unbiased estimates of exposure to computer use. *Journal of Occupational and Environmental Hygiene*, **2008**, 5, 790-6	2.9	17
21	Daily computer usage correlated with undergraduate studentsSmusculoskeletal symptoms. *American Journal of Industrial Medicine*, **2007**, 50, 481-8	2.7	66
20	Measuring low back injury risk factors in challenging work environments: an evaluation of cost and feasibility. *American Journal of Industrial Medicine*, **2007**, 50, 687-96	2.7	53
19	Comparing the results of five lifting analysis tools. *Applied Ergonomics*, **2007**, 38, 91-7	4.2	38
18	Accuracy and feasibility of using an electrogoniometer for measuring simple thumb movements. *Ergonomics*, **2007**, 50, 647-59	2.9	27

17	Different computer tasks affect the exposure of the upper extremity to biomechanical risk factors. *Ergonomics*, **2006**, 49, 45-61	2.9	105
16	Changes in upper extremity biomechanics across different mouse positions in a computer workstation. *Ergonomics*, **2006**, 49, 1456-69	2.9	47
15	Evaluation of Microsoft's Comfort Curve Keyboard. *Proceedings of the Human Factors and Ergonomics Society*, **2005**, 49, 1359-1363	0.4	1
14	Fatigue in the Forearm Resulting From Low-Level Repetitive Ulnar Deviation. *AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety*, **2003**, 64, 799-805		34
13	Positions of the Computer Mouse within a Thousand Workstations. *Proceedings of the Human Factors and Ergonomics Society*, **2003**, 47, 1279-1282	0.4	
12	Fatigue in the forearm resulting from low-level repetitive ulnar deviation. *AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety*, **2003**, 64, 799-805		6
11	Influence of time pressure and verbal provocation on physiological and psychological reactions during work with a computer mouse. *European Journal of Applied Physiology*, **2002**, 87, 257-63	3.4	86
10	Vibration-induced muscle fatigue, a possible contribution to musculoskeletal injury. *European Journal of Applied Physiology*, **2002**, 88, 134-40	3.4	43
9	Electromyographic activity of the human extensor carpi ulnaris muscle changes with exposure to repetitive ulnar deviation. *European Journal of Applied Physiology*, **2002**, 88, 5-12	3.4	20
8	Comparison of three psychophysical techniques to establish maximum acceptable torques of repetitive ulnar deviation. *Theoretical Issues in Ergonomics Science*, **2002**, 3, 274-284	2.2	5
7	Comparison of measurement accuracy between two wrist goniometer systems during pronation and supination. *Journal of Electromyography and Kinesiology*, **2002**, 12, 413-20	2.5	48
6	Comparison of measurement accuracy between two types of wrist goniometer systems. *Applied Ergonomics*, **2001**, 32, 599-607	4.2	50
5	Developing Miniature Force-Sensing Technologies for Measuring the Forces Applied to a Computer Mouse. *Proceedings of the Human Factors and Ergonomics Society*, **2000**, 44, 629-632	0.4	1
4	Computer Mouse Work - Differences between Work Methods and Gender. *Proceedings of the Human Factors and Ergonomics Society*, **2000**, 44, 632-635	0.4	2
3	Differences between work methods and gender in computer mouse use. *Scandinavian Journal of Work, Environment and Health*, **2000**, 26, 390-7	4.3	66
2	Measuring and characterizing force exposures during computer mouse use. *Scandinavian Journal of Work, Environment and Health*, **2000**, 26, 398-405	4.3	26
1	Evaluation of an Accelerometric Activity Monitor as an Exposure Assessment Tool in Ergonomic Studies. *Journal of Occupational and Environmental Hygiene*, **1995**, 10, 461-466		3