

David Rempel

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

3,825
citations

126907

33
h-index

138484

58
g-index

109
all docs

109
docs citations

109
times ranked

2577
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathophysiology of Nerve Compression Syndromes. Journal of Bone and Joint Surgery - Series A, 1999, 81, 1600-10.	3.0	319
2	Prevalence and incidence of carpal tunnel syndrome in US working populations: pooled analysis of six prospective studies. Scandinavian Journal of Work, Environment and Health, 2013, 39, 495-505.	3.4	246
3	VDT-related musculoskeletal symptoms: Interactions between work posture and psychosocial work factors. American Journal of Industrial Medicine, 1994, 26, 597-612.	2.1	225
4	Workplace interventions to prevent musculoskeletal and visual symptoms and disorders among computer users: A systematic review. Journal of Occupational Rehabilitation, 2006, 16, 325-58.	2.2	174
5	Effects of computer mouse design and task on carpal tunnel pressure. Ergonomics, 1999, 42, 1350-1360.	2.1	151
6	Systematic Review of the Role of Occupational Health and Safety Interventions in the Prevention of Upper Extremity Musculoskeletal Symptoms, Signs, Disorders, Injuries, Claims and Lost Time. Journal of Occupational Rehabilitation, 2010, 20, 127-162.	2.2	131
7	Biomechanical risk factors for carpal tunnel syndrome: a pooled study of 2474 workers. Occupational and Environmental Medicine, 2015, 72, 33-41.	2.8	127
8	Ergonomics and GI endoscopy. Gastrointestinal Endoscopy, 2009, 70, 145-153.	1.0	97
9	The effect of tool handle shape on hand muscle load and pinch force in a simulated dental scaling task. Applied Ergonomics, 2007, 38, 525-531.	3.1	96
10	Effects of forearm pronation/supination on carpal tunnel pressure. Journal of Hand Surgery, 1998, 23, 38-42.	1.6	89
11	Personal and workplace psychosocial risk factors for carpal tunnel syndrome: a pooled study cohort. Occupational and Environmental Medicine, 2013, 70, 529-537.	2.8	88
12	Effects of static fingertip loading on carpal tunnel pressure. Journal of Orthopaedic Research, 1997, 15, 422-426.	2.3	87
13	Effect of four computer keyboards in computer users with upper extremity musculoskeletal disorders. , 1999, 35, 647-661.		87
14	The Effects of Visual Display Distance on Eye Accommodation, Head Posture, and Vision and Neck Symptoms. Human Factors, 2007, 49, 830-838.	3.5	85
15	Wrist and forearm postures and motions during typing. Ergonomics, 1999, 42, 938-951.	2.1	80
16	Effect of Keyboard Keyswitch Design on Hand Pain. Journal of Occupational and Environmental Medicine, 1999, 41, 111-119.	1.7	79
17	The effect of keyboard keyswitch make force on applied force and finger flexor muscle activity. Ergonomics, 1997, 40, 800-808.	2.1	75
18	Review of the Breathability and Filtration Efficiency of Common Household Materials for Face Masks. ACS Nano, 2021, 15, 5904-5924.	14.6	71

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19	Pinch force and forearm-muscle load during routine colonoscopy: a pilot study. <i>Gastrointestinal Endoscopy</i> , 2009, 69, 142-146.	1.0	64
20	In vivo flexor tendon forces increase with finger and wrist flexion during active finger flexion and extension. <i>Journal of Orthopaedic Research</i> , 2006, 24, 763-769.	2.3	63
21	The design of hand gestures for human-computer interaction: Lessons from sign language interpreters. <i>International Journal of Human Computer Studies</i> , 2014, 72, 728-735.	5.6	57
22	The effect of six keyboard designs on wrist and forearm postures. <i>Applied Ergonomics</i> , 2007, 38, 293-298.	3.1	54
23	Meta-Analysis: Association Between Wrist Posture and Carpal Tunnel Syndrome Among Workers. <i>Safety and Health at Work</i> , 2014, 5, 27-31.	0.6	48
24	A User-Developed 3-D Hand Gesture Set for Human-Computer Interaction. <i>Human Factors</i> , 2015, 57, 607-621.	3.5	47
25	Experimental Evaluation of a Shoulder-Support Exoskeleton for Overhead Work: Influences of Peak Torque Amplitude, Task, and Tool Mass. <i>IJSE Transactions on Occupational Ergonomics and Human Factors</i> , 2019, 7, 250-263.	0.8	45
26	Musculoskeletal disorders of the upper extremity associated with computer work: A systematic review. <i>Occupational Ergonomics</i> , 2006, 5, 205-218.	0.3	43
27	1st place, PREMUS best paper competition: workplace and individual factors in wrist tendinosis among blue-collar workers - the San Francisco study. <i>Scandinavian Journal of Work, Environment and Health</i> , 2011, 37, 85-98.	3.4	43
28	Classification criteria and severity assessment in work-associated upper extremity disorders: Methods matter. <i>American Journal of Industrial Medicine</i> , 2000, 38, 369-372.	2.1	42
29	Holding a tablet computer with one hand: effect of tablet design features on biomechanics and subjective usability among users with small hands. <i>Ergonomics</i> , 2013, 56, 1363-1375.	2.1	41
30	A system for evaluating the effect of keyboard design on force, posture, comfort, and productivity. <i>Ergonomics</i> , 1994, 37, 1649-1660.	2.1	38
31	Effects of Varying Case Definition on Carpal Tunnel Syndrome Prevalence Estimates in a Pooled Cohort. <i>Archives of Physical Medicine and Rehabilitation</i> , 2014, 95, 2320-2326.	0.9	38
32	The effects of periodontal instrument handle design on hand muscle load and pinch force. <i>Journal of the American Dental Association</i> , 2006, 137, 1123-1130.	1.5	37
33	Fast hand posture classification using depth features extracted from random line segments. <i>Pattern Recognition</i> , 2017, 65, 1-10.	8.1	36
34	General Population Job Exposure Matrix Applied to a Pooled Study of Prevalent Carpal Tunnel Syndrome. <i>American Journal of Epidemiology</i> , 2015, 181, 431-439.	3.4	33
35	Associations between workplace factors and carpal tunnel syndrome: A multi-site cross sectional study. <i>American Journal of Industrial Medicine</i> , 2015, 58, 509-518.	2.1	30
36	Biomechanical and psychosocial exposures are independent risk factors for carpal tunnel syndrome: assessment of confounding using causal diagrams. <i>Occupational and Environmental Medicine</i> , 2016, 73, oemed-2016-103634.	2.8	29

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37	Field Evaluation of a Modified Intervention for Overhead Drilling. <i>Journal of Occupational and Environmental Hygiene</i> , 2010, 7, 194-202.	1.0	27
38	Workplace Use of an Adjustable Keyboard: Adjustment Preferences and Effect on Wrist Posture. <i>AIHA Journal</i> , 1999, 60, 340-348.	0.4	25
39	Evaluation of a dynamic arm support for seated and standing tasks: a laboratory study of electromyography and subjective feedback. <i>Ergonomics</i> , 2007, 50, 520-535.	2.1	25
40	Finger flexor motor control patterns during active flexion: An in vivo tendon force study. <i>Human Movement Science</i> , 2007, 26, 1-10.	1.4	25
41	The effects of periodontal curette handle weight and diameter on arm pain. <i>Journal of the American Dental Association</i> , 2012, 143, 1105-1113.	1.5	25
42	The effects of reduced oxygen tension on cell proliferation and matrix synthesis in synovium and tendon explants from the rabbit carpal tunnel: an experimental study in vitro. <i>Journal of Orthopaedic Research</i> , 2001, 19, 143-148.	2.3	24
43	Modeling the Effect of the 2018 Revised ACGIH® Hand Activity Threshold Limit Value® (TLV) at Reducing Risk for Carpal Tunnel Syndrome. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 628-633.	1.0	24
44	The Effects of Finger Rest Positions on Hand Muscle Load and Pinch Force in Simulated Dental Hygiene Work. <i>Journal of Dental Education</i> , 2005, 69, 453-460.	1.2	22
45	The Split Keyboard: An Ergonomics Success Story. <i>Human Factors</i> , 2008, 50, 385-392.	3.5	22
46	A new test bench system for hammer drills: Validation for handle vibration. <i>International Journal of Industrial Ergonomics</i> , 2017, 62, 17-20.	2.6	22
47	Incident CTS in a large pooled cohort study: associations obtained by a Job Exposure Matrix versus associations obtained from observed exposures. <i>Occupational and Environmental Medicine</i> , 2018, 75, 501-506.	2.8	21
48	Effect of dental tool surface texture and material on static friction with a wet gloved fingertip. <i>Journal of Biomechanics</i> , 2007, 40, 697-701.	2.1	20
49	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.	3.1	20
50	The Effect of Keyboard Key Spacing on Typing Speed, Error, Usability, and Biomechanics. <i>Human Factors</i> , 2013, 55, 557-566.	3.5	18
51	Personal and Workplace Factors and Median Nerve Function in a Pooled Study of 2396 US Workers. <i>Journal of Occupational and Environmental Medicine</i> , 2015, 57, 98-104.	1.7	18
52	Scientific basis of ISO standards on biomechanical risk factors. <i>Scandinavian Journal of Work, Environment and Health</i> , 2018, 44, 323-329.	3.4	18
53	Overhead drilling: Comparing three bases for aligning a drilling jig to vertical. <i>Journal of Safety Research</i> , 2010, 41, 247-251.	3.6	16
54	Biomechanical risk factors associated with distal upper extremity musculoskeletal disorders in endoscopists performing colonoscopy. <i>Gastrointestinal Endoscopy</i> , 2021, 93, 704-711.e3.	1.0	16

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55	Standards for Surgical Respirators and Masks: Relevance for Protecting Healthcare Workers and the Public During Pandemics. <i>Annals of Work Exposures and Health</i> , 2021, 65, 495-504.	1.4	16
56	A biomechanical analysis of applied pinch force during periodontal scaling. <i>Journal of Biomechanics</i> , 2007, 40, 1910-1915.	2.1	15
57	The effects of split keyboard geometry on upper body postures. <i>Ergonomics</i> , 2009, 52, 104-111.	2.1	15
58	Effect of bit wear on hammer drill handle vibration and productivity. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 640-649.	1.0	15
59	Pinch Forces and Instrument Tip Forces During Periodontal Scaling. <i>Journal of Periodontology</i> , 2007, 78, 97-103.	3.4	14
60	A new method for overhead drilling. <i>Ergonomics</i> , 2009, 52, 1584-1589.	2.1	14
61	Carbide-tipped bit wear patterns and productivity with concrete drilling. <i>Wear</i> , 2017, 386-387, 58-62.	3.1	14
62	The effect of two alternative arm supports on shoulder and upper back muscle loading during pipetting. <i>Work</i> , 2011, 39, 195-200.	1.1	13
63	Lateral epicondylitis: New evidence for work relatedness. <i>Joint Bone Spine</i> , 2015, 82, 5-7.	1.6	13
64	The Design of Hand Gestures for Selecting Virtual Objects. <i>International Journal of Human-Computer Interaction</i> , 2019, 35, 1729-1735.	4.8	12
65	Design of finger gestures for locomotion in virtual reality. <i>Virtual Reality & Intelligent Hardware</i> , 2019, 1, 1-9.	3.2	12
66	Comparison of lift use, perceptions, and musculoskeletal symptoms between ceiling lifts and floor-based lifts in patient handling. <i>Applied Ergonomics</i> , 2020, 82, 102954.	3.1	11
67	R2: Drilling into concrete: Effect of feed force on handle vibration and productivity. <i>International Journal of Industrial Ergonomics</i> , 2020, 80, 103049.	2.6	11
68	Diagnostic criteria for musculoskeletal disorders for use in occupational healthcare or research: a scoping review of consensus- and synthesised-based case definitions. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 169.	1.9	11
69	Occupational risk factors for work disability following carpal tunnel syndrome: a pooled prospective study. <i>Occupational and Environmental Medicine</i> , 2022, 79, 442-451.	2.8	11
70	A universal rig for supporting large hammer drills: Reduced injury risk and improved productivity. <i>Safety Science</i> , 2015, 78, 20-24.	4.9	10
71	Measuring exertion time, duty cycle and hand activity level for industrial tasks using computer vision. <i>Ergonomics</i> , 2017, 60, 1730-1738.	2.1	10
72	Hydrogen Peroxide Methods for Decontaminating N95 Filtering Facepiece Respirators. <i>Applied Biosafety</i> , 2021, 26, 71-79.	0.5	10

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73	The Effects of Bit Wear on Respirable Silica Dust, Noise and Productivity: A Hammer Drill Bench Study. <i>Annals of Work Exposures and Health</i> , 2017, 61, 700-710.	1.4	9
74	Fingertip Forces While Using three Different Keyboards. <i>Proceedings of the Human Factors Society Annual Meeting</i> , 1991, 35, 253-255.	0.1	8
75	Case Study. <i>Journal of Occupational and Environmental Hygiene</i> , 2012, 9, D35-D41.	1.0	8
76	Effect of hollow bit local exhaust ventilation on respirable quartz dust concentrations during concrete drilling. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 336-340.	1.0	7
77	Scientific Collaboration During the COVID-19 Pandemic: N95DECON.org. <i>Annals of Work Exposures and Health</i> , 2020, 64, 775-777.	1.4	7
78	Work-related Disorders and the Operation of Computer VDT's. , 1997, , 1415-1429.		7
79	The Effect of Keyboard Key Spacing on Productivity, Usability, and Biomechanics in Touch Typists with Large Hands. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 1872-1876.	0.3	6
80	The Effect of Keyboard Key Spacing on Typing Speed, Error, Usability, and Biomechanics, Part 2. <i>Human Factors</i> , 2014, 56, 752-759.	3.5	6
81	Design of 3D Microgestures for Commands in Virtual Reality or Augmented Reality. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6375.	2.5	6
82	Distal upper extremity musculoskeletal risk factors associated with colonoscopy. <i>Work</i> , 2012, 41, 4680-4682.	1.1	5
83	Mind the Gap. <i>Human Factors</i> , 2015, 57, 1188-1194.	3.5	5
84	Professional and High-Level Gamers: Differences in Performance, Muscle Activity, and Hand Kinematics for Different Mice. <i>International Journal of Human-Computer Interaction</i> , 2022, 38, 691-706.	4.8	5
85	A preliminary decision tree modeling of factors that determine readiness to use exoskeletons in construction. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2021, 65, 419-420.	0.3	5
86	Towards harmonisation of case definitions for eight work-related musculoskeletal disorders - an international multi-disciplinary Delphi study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 1018.	1.9	5
87	Authors' response: Letter to the Editor concerning OCRA as preferred method in ISO standards on biomechanical risk factors. <i>Scandinavian Journal of Work, Environment and Health</i> , 2018, 44, 439-440.	3.4	4
88	Effect of Four Computer Keyboards in Computer Users with Upper Extremity Musculoskeletal Disorders. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 692-695.	0.3	3
89	Holding A Tablet Computer With One Hand. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 1634-1638.	0.3	3
90	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.	0.3	2

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91	Effects of Font Size and Reflective Glare on Text-Based Task Performance and Postural Change Behavior of Presbyopic and Nonpresbyopic Computer Users. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2378-2382.	0.3	2
92	The Impact of Gender on Personal, Health and Workplace Psychosocial Risk Factors for Carpal Tunnel Syndrome. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 911-914.	0.3	2
93	Research to Practice to Research. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 896-898.	0.3	2
94	The Design and Assignment of Microgestures to Commands for Virtual and Augmented Reality Tasks. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 2061-2063.	0.3	2
95	Ergonomic Evaluation of the International Space Station Life Sciences Glovebox. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 73-76.	0.3	1
96	Effect of Computer Monitor Distance on Visual Symptoms and Changes in Accommodation and Binocular Vision. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1447-1451.	0.3	1
97	How Do Computer Vision Upper Extremity Exposure Measures Compare Against Manual Measures?. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 960-961.	0.3	1
98	Effect of four computer keyboards in computer users with upper extremity musculoskeletal disorders. American Journal of Industrial Medicine, 1999, 35, 647-661.	2.1	1
99	Finger Muscle Activity during Use of Different Pointing Devices. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 682-684.	0.3	0
100	Ergonomics and Computer an International Multisession Symposium. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 627-627.	0.3	0
101	The Effect of Repetition Rate on the Formation of Microtears in Tendon in an <i>In Vivo</i> Cyclical Loading Animal Model. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2331-2335.	0.3	0
102	The Effect of Six Keyboard Designs on Wrist and Forearm Postures. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1366-1369.	0.3	0
103	Interventions for Overhead Drilling in Construction. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1035-1039.	0.3	0
104	Comparisons of Seated Postures between Office Tasks. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 692-696.	0.3	0
105	Interventions for Overhead Drilling: A Demonstration. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 645-646.	0.3	0
106	The impact of gender on personal, health and workplace psychosocial risk factors for carpal tunnel syndrome. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 2167-2170.	0.3	0
107	76â€¦Effects of concrete bit wear on drill handle vibration, drilling productivity and changes in bit tip geometry. , 2018, , .		0
108	A Design Tool to Estimate Maximum Acceptable Manual Arm Forces for Above-Shoulder Work. Ergonomics, 2022, , 1-27.	2.1	0