

David Rempel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5493339/publications.pdf>

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	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
2	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
3	A Design Tool to Estimate Maximum Acceptable Manual Arm Forces for Above-Shoulder Work. <i>Ergonomics</i> , 2022, , 1-27.	2.1	0
4	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
5	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
6	Review of the Breathability and Filtration Efficiency of Common Household Materials for Face Masks. <i>ACS Nano</i> , 2021, 15, 5904-5924.	14.6	71
7	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
8	Hydrogen Peroxide Methods for Decontaminating N95 Filtering Facepiece Respirators. <i>Applied Biosafety</i> , 2021, 26, 71-79.	0.5	10
9	Design of 3D Microgestures for Commands in Virtual Reality or Augmented Reality. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6375.	2.5	6
10	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
11	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
12	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
13	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
14	Scientific Collaboration During the COVID-19 Pandemic: N95DECON.org. <i>Annals of Work Exposures and Health</i> , 2020, 64, 775-777.	1.4	7
15	The Design and Assignment of Microgestures to Commands for Virtual and Augmented Reality Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 2061-2063.	0.3	2
16	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
17	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
18	Experimental Evaluation of a Shoulder-Support Exoskeleton for Overhead Work: Influences of Peak Torque Amplitude, Task, and Tool Mass. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2019, 7, 250-263.	0.8	45

#	ARTICLE	IF	CITATIONS
19	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
20	The Design of Hand Gestures for Selecting Virtual Objects. <i>International Journal of Human-Computer Interaction</i> , 2019, 35, 1729-1735.	4.8	12
21	Design of finger gestures for locomotion in virtual reality. <i>Virtual Reality & Intelligent Hardware</i> , 2019, 1, 1-9.	3.2	12
22	76â€¦Effects of concrete bit wear on drill handle vibration, drilling productivity and changes in bit tip geometry. , 2018, , .		0
23	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
24	How Do Computer Vision Upper Extremity Exposure Measures Compare Against Manual Measures?. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 960-961.	0.3	1
25	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
26	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
27	Fast hand posture classification using depth features extracted from random line segments. <i>Pattern Recognition</i> , 2017, 65, 1-10.	8.1	36
28	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
29	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
30	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
31	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
32	Carbide-tipped bit wear patterns and productivity with concrete drilling. <i>Wear</i> , 2017, 386-387, 58-62.	3.1	14
33	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
34	Research to Practice to Research. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 896-898.	0.3	2
35	A User-Developed 3-D Hand Gesture Set for Humanâ€“Computer Interaction. <i>Human Factors</i> , 2015, 57, 607-621.	3.5	47
36	Associations between workplace factors and carpal tunnel syndrome: A multiâ€“site cross sectional study. <i>American Journal of Industrial Medicine</i> , 2015, 58, 509-518.	2.1	30

#	ARTICLE	IF	CITATIONS
37	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
38	Mind the Gap. <i>Human Factors</i> , 2015, 57, 1188-1194.	3.5	5
39	Lateral epicondylitis: New evidence for work relatedness. <i>Joint Bone Spine</i> , 2015, 82, 5-7.	1.6	13
40	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
41	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
42	Biomechanical risk factors for carpal tunnel syndrome: a pooled study of 2474 workers. <i>Occupational and Environmental Medicine</i> , 2015, 72, 33-41.	2.8	127
43	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
44	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
45	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
46	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
47	Holding A Tablet Computer With One Hand. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 1634-1638.	0.3	3
48	Personal and workplace psychosocial risk factors for carpal tunnel syndrome: a pooled study cohort. <i>Occupational and Environmental Medicine</i> , 2013, 70, 529-537.	2.8	88
49	The Effect of Keyboard Key Spacing on Typing Speed, Error, Usability, and Biomechanics. <i>Human Factors</i> , 2013, 55, 557-566.	3.5	18
50	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
51	The Impact of Gender on Personal, Health and Workplace Psychosocial Risk Factors for Carpal Tunnel Syndrome. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 911-914.	0.3	2
52	The impact of gender on personal, health and workplace psychosocial risk factors for carpal tunnel syndrome. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 2167-2170.	0.3	0
53	Prevalence and incidence of carpal tunnel syndrome in US working populations: pooled analysis of six prospective studies. <i>Scandinavian Journal of Work, Environment and Health</i> , 2013, 39, 495-505.	3.4	246
54	Effects of Font Size and Reflective Glare on Text-Based Task Performance and Postural Change Behavior of Presbyopic and Nonpresbyopic Computer Users. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012, 56, 2378-2382.	0.3	2

#	ARTICLE	IF	CITATIONS
55	The Effect of Keyboard Key Spacing on Productivity, Usability, and Biomechanics in Touch Typists with Large Hands. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1872-1876.	0.3	6
56	The effects of periodontal curette handle weight and diameter on arm pain. Journal of the American Dental Association, 2012, 143, 1105-1113.	1.5	25
57	Case Study. Journal of Occupational and Environmental Hygiene, 2012, 9, D35-D41.	1.0	8
58	Distal upper extremity musculoskeletal risk factors associated with colonoscopy. Work, 2012, 41, 4680-4682.	1.1	5
59	The effect of two alternative arm supports on shoulder and upper back muscle loading during pipetting. Work, 2011, 39, 195-200.	1.1	13
60	1st place, PREMUS best paper competition: workplace and individual factors in wrist tendinosis among blue-collar workers at the San Francisco study. Scandinavian Journal of Work, Environment and Health, 2011, 37, 85-98.	3.4	43
61	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
62	Overhead drilling: Comparing three bases for aligning a drilling jig to vertical. Journal of Safety Research, 2010, 41, 247-251.	3.6	16
63	Interventions for Overhead Drilling: A Demonstration. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 645-646.	0.3	0
64	Field Evaluation of a Modified Intervention for Overhead Drilling. Journal of Occupational and Environmental Hygiene, 2010, 7, 194-202.	1.0	27
65	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
66	The effects of split keyboard geometry on upper body postures. Ergonomics, 2009, 52, 104-111.	2.1	15
67	Pinch force and forearm-muscle load during routine colonoscopy: a pilot study. Gastrointestinal Endoscopy, 2009, 69, 142-146.	1.0	64
68	Ergonomics and GI endoscopy. Gastrointestinal Endoscopy, 2009, 70, 145-153.	1.0	97
69	A new method for overhead drilling. Ergonomics, 2009, 52, 1584-1589.	2.1	14
70	The Split Keyboard: An Ergonomics Success Story. Human Factors, 2008, 50, 385-392.	3.5	22
71	Interventions for Overhead Drilling in Construction. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1035-1039.	0.3	0
72	Comparisons of Seated Postures between Office Tasks. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 692-696.	0.3	0

#	ARTICLE	IF	CITATIONS
73	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
74	The Effects of Visual Display Distance on Eye Accommodation, Head Posture, and Vision and Neck Symptoms. <i>Human Factors</i> , 2007, 49, 830-838.	3.5	85
75	Pinch Forces and Instrument Tip Forces During Periodontal Scaling. <i>Journal of Periodontology</i> , 2007, 78, 97-103.	3.4	14
76	The effect of tool handle shape on hand muscle load and pinch force in a simulated dental scaling task. <i>Applied Ergonomics</i> , 2007, 38, 525-531.	3.1	96
77	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
78	A biomechanical analysis of applied pinch force during periodontal scaling. <i>Journal of Biomechanics</i> , 2007, 40, 1910-1915.	2.1	15
79	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
80	The effect of six keyboard designs on wrist and forearm postures. <i>Applied Ergonomics</i> , 2007, 38, 293-298.	3.1	54
81	Workplace interventions to prevent musculoskeletal and visual symptoms and disorders among computer users: A systematic review. <i>Journal of Occupational Rehabilitation</i> , 2006, 16, 325-58.	2.2	174
82	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
83	The Effect of Repetition Rate on the Formation of Microtears in Tendon in an <i>In Vivo</i> Cyclical Loading Animal Model. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2006, 50, 2331-2335.	0.3	0
84	The Effect of Six Keyboard Designs on Wrist and Forearm Postures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2006, 50, 1366-1369.	0.3	0
85	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
86	Musculoskeletal disorders of the upper extremity associated with computer work: A systematic review. <i>Occupational Ergonomics</i> , 2006, 5, 205-218.	0.3	43
87	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
88	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
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	Finger Muscle Activity during Use of Different Pointing Devices. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 682-684.	0.3	0
92	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
93	Ergonomics and Computer an International Multisession Symposium. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 627-627.	0.3	0
94	Wrist and forearm postures and motions during typing. Ergonomics, 1999, 42, 938-951.	2.1	80
95	Effects of computer mouse design and task on carpal tunnel pressure. Ergonomics, 1999, 42, 1350-1360.	2.1	151
96	Workplace Use of an Adjustable Keyboard: Adjustment Preferences and Effect on Wrist Posture. AIHA Journal, 1999, 60, 340-348.	0.4	25
97	Effect of four computer keyboards in computer users with upper extremity musculoskeletal disorders. , 1999, 35, 647-661.		87
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	Effect of Keyboard Keyswitch Design on Hand Pain. Journal of Occupational and Environmental Medicine, 1999, 41, 111-119.	1.7	79
100	Pathophysiology of Nerve Compression Syndromes. Journal of Bone and Joint Surgery - Series A, 1999, 81, 1600-10.	3.0	319
101	Effects of forearm pronation/supination on carpal tunnel pressure. Journal of Hand Surgery, 1998, 23, 38-42.	1.6	89
102	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.	0.3	2
103	The effect of keyboard keyswitch make force on applied force and finger flexor muscle activity. Ergonomics, 1997, 40, 800-808.	2.1	75
104	Effects of static fingertip loading on carpal tunnel pressure. Journal of Orthopaedic Research, 1997, 15, 422-426.	2.3	87
105	Work-related Disorders and the Operation of Computer VDT's. , 1997, , 1415-1429.		7
106	A system for evaluating the effect of keyboard design on force, posture, comfort, and productivity. Ergonomics, 1994, 37, 1649-1660.	2.1	38
107	VDT-related musculoskeletal symptoms: Interactions between work posture and psychosocial work factors. American Journal of Industrial Medicine, 1994, 26, 597-612.	2.1	225
108	Fingertip Forces While Using three Different Keyboards. Proceedings of the Human Factors Society Annual Meeting, 1991, 35, 253-255.	0.1	8