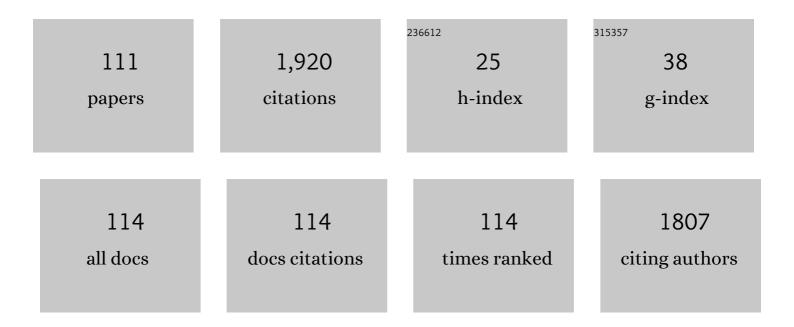
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Neuroergonomics: a review of applications to physical and cognitive work. Frontiers in Human Neuroscience, 2013, 7, 889.	1.0	181
2	Influence of mental workload on muscle endurance, fatigue, and recovery during intermittent static work. European Journal of Applied Physiology, 2012, 112, 2891-2902.	1.2	146
3	Effects of Mental Fatigue on the Development of Physical Fatigue. Human Factors, 2014, 56, 645-656.	2.1	98
4	Impacts of obesity and stress on neuromuscular fatigue development and associated heart rate variability. International Journal of Obesity, 2015, 39, 208-213.	1.6	56
5	Standing Up for Learning: A Pilot Investigation on the Neurocognitive Benefits of Stand-Biased School Desks. International Journal of Environmental Research and Public Health, 2016, 13, 59.	1.2	56
6	Effects of concurrent physical and mental demands for a short duration static task. International Journal of Industrial Ergonomics, 2011, 41, 488-493.	1.5	51
7	Prefrontal Hemodynamics of Physical Activity and Environmental Complexity During Cognitive Work. Human Factors, 2017, 59, 147-162.	2.1	47
8	A neurophysiological approach to assess training outcome under stress: A virtual reality experiment of industrial shutdown maintenance using Functional Near-Infrared Spectroscopy (fNIRS). Advanced Engineering Informatics, 2020, 46, 101153.	4.0	46
9	Effect of Cognitive Fatigue, Operator Sex, and Robot Assistance on Task Performance Metrics, Workload, and Situation Awareness in Human-Robot Collaboration. IEEE Robotics and Automation Letters, 2021, 6, 3049-3056.	3.3	42
10	Classifying Major Depressive Disorder Using fNIRS During Motor Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 961-969.	2.7	40
11	Muscle- and task-dependent responses to concurrent physical and mental workload during intermittent static work. Ergonomics, 2012, 55, 1166-1179.	1.1	38
12	Human Factors Considerations and Metrics in Shared Space Human-Robot Collaboration: A Systematic Review. Frontiers in Robotics and Al, 2022, 9, 799522.	2.0	37
13	Functional Connectivity During Handgrip Motor Fatigue in Older Adults Is Obesity and Sex-Specific. Frontiers in Human Neuroscience, 2018, 12, 455.	1.0	36
14	Obesity-related differences in neural correlates of force control. European Journal of Applied Physiology, 2014, 114, 197-204.	1.2	35
15	Disaster Ergonomics: Human Factors in COVID-19 Pandemic Emergency Management. Human Factors, 2020, 62, 1061-1068.	2.1	35
16	The effect of cognitive fatigue on prefrontal cortex correlates of neuromuscular fatigue in older women. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 115.	2.4	34
17	Impact of cognitive fatigue on gait and sway among older adults: A literature review. Preventive Medicine Reports, 2017, 6, 88-93.	0.8	33
18	Accessing physical activity among young adults attending a university: the role of sex, race/ethnicity, technology use, and sleep. BMC Public Health, 2017, 17, 721.	1.2	33

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19	Methodological Approaches and Recommendations for Functional Near-Infrared Spectroscopy Applications in HF/E Research. Human Factors, 2020, 62, 613-642.	2.1	32
20	Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. Journal of Loss Prevention in the Process Industries, 2017, 48, 376-381.	1.7	31
21	Neural and biomechanical tradeoffs associated with human-exoskeleton interactions. Applied Ergonomics, 2021, 96, 103494.	1.7	31
22	Call Center Productivity Over 6 Months Following a Standing Desk Intervention. IIE Transactions on Occupational Ergonomics and Human Factors, 2016, 4, 188-195.	0.5	30
23	The effects of obesity, age, and relative workload levels on handgrip endurance. Applied Ergonomics, 2015, 46, 91-95.	1.7	29
24	Obesity-specific neural cost of maintaining gait performance under complex conditions in community-dwelling older adults. Clinical Biomechanics, 2016, 35, 42-48.	0.5	29
25	Spatial knowledge and firefighters' wayfinding performance: A virtual reality search and rescue experiment. Safety Science, 2021, 139, 105231.	2.6	28
26	Technologies for Opioid Use Disorder Management: Mobile App Search and Scoping Review. JMIR MHealth and UHealth, 2020, 8, e15752.	1.8	28
27	Analysis of individual and occupational risk factors on task performance and biomechanical demands for a simulated drilling task. International Journal of Industrial Ergonomics, 2010, 40, 584-591.	1.5	27
28	Effects of physical and mental demands on shoulder muscle fatigue. Work, 2012, 41, 2897-2901.	0.6	25
29	Relationship Between BMI and Fatigability Is Task Dependent. Human Factors, 2017, 59, 722-733.	2.1	25
30	Ergonomic evaluation of hospital bed design features during patient handling tasks. International Journal of Industrial Ergonomics, 2011, 41, 647-652.	1.5	24
31	Cognitive challenges, aging, and neuromuscular fatigue. Physiology and Behavior, 2017, 170, 19-26.	1.0	24
32	Subjective Evaluation of Physical and Mental Workload Interactions Across Different Muscle Groups. Journal of Occupational and Environmental Hygiene, 2015, 12, 62-68.	0.4	23
33	Evaluating advanced driver-assistance system trainings using driver performance, attention allocation, and neural efficiency measures. Applied Ergonomics, 2020, 84, 103036.	1.7	22
34	Exertion-Dependent Effects of Physical and Mental Workload on Physiological Outcomes and Task Performance. IIE Transactions on Occupational Ergonomics and Human Factors, 2013, 1, 3-15.	0.5	21
35	Stunted PFC activity during neuromuscular control under stress with obesity. European Journal of Applied Physiology, 2016, 116, 319-326.	1.2	21
36	Neuromuscular Control and Performance Differences Associated With Gender and Obesity in Fatiguing Tasks Performed by Older Adults. Frontiers in Physiology, 2018, 9, 800.	1.3	20

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37	Grand Field Challenges for Cognitive Neuroergonomics in the Coming Decade. Frontiers in Neuroergonomics, 2021, 2, .	0.6	20
38	Integrating Physical and Cognitive Ergonomics. IIE Transactions on Occupational Ergonomics and Human Factors, 2016, 4, 83-87.	0.5	19
39	The past, present and future of opioid withdrawal assessment: a scoping review of scales and technologies. BMC Medical Informatics and Decision Making, 2019, 19, 113.	1.5	18
40	Associations between psychosocial risk factors and musculoskeletal disorders: application to the IT profession in India. Work, 2012, 41, 2438-2444.	0.6	16
41	Sit-Stand Desk Software Can Now Monitor and Prompt Office Workers to Change Health Behaviors. Human Factors, 2019, 61, 816-824.	2.1	16
42	Anodal tDCS augments and preserves working memory beyond time-on-task deficits. Scientific Reports, 2021, 11, 19134.	1.6	16
43	Operator situation awareness and physiological states during offshore well control scenarios. Journal of Loss Prevention in the Process Industries, 2018, 55, 332-337.	1.7	15
44	Task and sex differences in muscle oxygenation during handgrip fatigue development. Ergonomics, 2018, 61, 1646-1656.	1.1	13
45	Computer-based Prompt's impact on postural variability and sit-stand desk usage behavior; a cluster randomized control trial. Applied Ergonomics, 2019, 79, 17-24.	1.7	13
46	Static and Dynamic Work Activity Classification from a Single Accelerometer: Implications for Ergonomic Assessment of Manual Handling Tasks. IISE Transactions on Occupational Ergonomics and Human Factors, 2019, 7, 59-68.	0.5	13
47	Development of the Fatigue Risk Assessment and Management in High-Risk Environments (FRAME) Survey: A Participatory Approach. International Journal of Environmental Research and Public Health, 2019, 16, 522.	1.2	13
48	Neural Efficiency of Human–Robotic Feedback Modalities Under Stress Differs With Gender. Frontiers in Human Neuroscience, 2019, 13, 287.	1.0	12
49	The effect of obesity on central activation failure during ankle fatigue: a pilot investigation. Fatigue: Biomedicine, Health and Behavior, 2016, 4, 115-126.	1.2	10
50	Classification of Fatigue Phases in Healthy and Diabetic Adults Using Wearable Sensor. Sensors, 2020, 20, 6897.	2.1	10
51	Field Methods to Quantify Emergency Responder Fatigue: Lessons Learned from sUAS Deployment at the 2018 Kilauea Volcano Eruption. IISE Transactions on Occupational Ergonomics and Human Factors, 2020, 8, 166-174.	0.5	10
52	Wearable Sensors and Their Metrics for Measuring Comprehensive Occupational Fatigue: A Scoping Review. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1041-1045.	0.2	9
53	Trust in Shared-Space Collaborative Robots: Shedding Light on the Human Brain. Human Factors, 2024, 66, 490-509.	2.1	9
54	Age-specific neural strategies to maintain motor performance after an acute social stress bout. Experimental Brain Research, 2017, 235, 2049-2057.	0.7	8

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55	Assessing ergonomic risks of software: Development of the SEAT. Applied Ergonomics, 2017, 59, 377-386.	1.7	8
56	Effect of advanced driver-assistance system trainings on driver workload, knowledge, and trust. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 76, 309-320.	1.8	8
57	Diabetes Management Experience and the State of Hypoglycemia: National Online Survey Study. JMIR Diabetes, 2020, 5, e17890.	0.9	8
58	Evaluation of Offshore Shiftwork using Heart Rate Variability. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1036-1039.	0.2	7
59	Investigating the Efficacy of Using Hand Tremors for Early Detection of Hypoglycemic Events: A Scoping Literature Review. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1211-1215.	0.2	7
60	Brain Activity-Based Metrics for Assessing Learning States in VR under Stress among Firefighters: An Explorative Machine Learning Approach in Neuroergonomics. Brain Sciences, 2021, 11, 885.	1.1	7
61	Investigating Fatigue in Offshore Drilling Workers: A Qualitative Data Analysis of Interviews. IISE Transactions on Occupational Ergonomics and Human Factors, 2019, 7, 31-42.	0.5	6
62	Quantifying Accelerometer-Based Tremor Features of Neuromuscular Fatigue in Healthy and Diabetic Adults. IEEE Sensors Journal, 2020, 20, 11183-11190.	2.4	6
63	Neural Correlates of Physical and Mental Fatigue. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 2172-2176.	0.2	5
64	Reliability analyses and values of isometric shoulder flexion and trunk extension strengths stratified by body mass index. PLoS ONE, 2019, 14, e0219090.	1.1	5
65	Neural Signatures of Handgrip Fatigue in Type 1 Diabetic Men and Women. Frontiers in Human Neuroscience, 2020, 14, 564969.	1.0	5
66	Neural Correlates of Trust in Automation: Considerations and Generalizability Between Technology Domains. Frontiers in Neuroergonomics, 2021, 2, .	0.6	5
67	Mind over body: A neuroergonomic approach to assessing motor performance under stress in older adults. Applied Ergonomics, 2022, 101, 103691.	1.7	5
68	Obesity effect on isometric strength of the trunk extensors. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 943-947.	0.2	4
69	Fatigue Monitoring and Management across Different Industries. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 993-996.	0.2	4
70	Expert monitoring and verbal feedback as sources of performance pressure. Acta Psychologica, 2018, 186, 39-46.	0.7	4
71	Spectral Analysis of Hand Tremors Induced During a Fatigue Test. , 2019, , .		4
72	Human in Focus: Future Research and Applications of Ubiquitous User Monitoring. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 168-172.	0.2	4

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73	Health-related consequences of the type and utilization rates of electronic devices by college students. BMC Public Health, 2021, 21, 1970.	1.2	4
74	Modeling Brain Dynamics During Virtual Reality-Based Emergency Response Learning Under Stress. Human Factors, 2023, 65, 1804-1820.	2.1	4
75	Humanâ€centered intelligent training for emergency responders. Al Magazine, 2022, 43, 83-92.	1.4	4
76	A Window Into the Tired Brain: Neurophysiological Dynamics of Visuospatial Working Memory Under Fatigue. Human Factors, 2024, 66, 528-543.	2.1	4
77	Bimanual coordination patterns are stabilized under monitoring-pressure. Experimental Brain Research, 2017, 235, 1909-1918.	0.7	3
78	Non-invasive Wearable System for Hypoglycemia Detection: A Proof of Concept User-Centered Design Process. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1052-1056.	0.2	3
79	Features of Physiological Tremor in Diabetic Patients. , 2019, , .		3
80	Design for stress, fatigue, and workload management. , 2020, , 201-226.		3
81	Revealing Sex Differences During Upper and Lower Extremity Neuromuscular Fatigue in Older Adults Through a Neuroergonomics Approach. Frontiers in Neuroergonomics, 2021, 2, .	0.6	3
82	Towards a Closed-Loop Neurostimulation Platform for Augmenting Operator Vigilance. , 2020, , .		3
83	Stress Detection During Motor Activity: Comparing Neurophysiological Indices in Older Adults. IEEE Transactions on Affective Computing, 2023, 14, 2224-2237.	5.7	3
84	A Methodological Framework to Capture Neuromuscular Fatigue Mechanisms Under Stress. Frontiers in Neuroergonomics, 2021, 2, .	0.6	3
85	Hand tremor-based hypoglycemia detection and prediction in adolescents with type 1 diabetes. Biomedical Signal Processing and Control, 2022, 78, 103869.	3.5	3
86	The Effects of Obesity and Workload on Hand Grip Endurance. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 953-957.	0.2	2
87	Is Functional Near Infrared Spectroscopy (fNIRS) Appropriate for your Research?. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 188-190.	0.2	2
88	Testing the efficacy of existing force-endurance models to account for the prevalence of obesity in the workforce. Journal of Occupational and Environmental Hygiene, 2017, 14, 786-792.	0.4	2
89	A Quantitative Evaluation of Electric Sit-Stand Desk Usage: 3-Month In-Situ Workplace Study. IISE Transactions on Occupational Ergonomics and Human Factors, 2018, 6, 76-83.	0.5	2
90	Fatigue indicators of 12-hour day and night shifts in simulated offshore well control scenarios. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 897-899.	0.2	2

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91	Smart Software Can Increase Sit–Stand Desk Transitions During Active Computer Use. International Journal of Environmental Research and Public Health, 2019, 16, 2438.	1.2	2
92	First and Immediate Responders: Current Capability Needs and Research Challenges. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 640-641.	0.2	2
93	Relationship Between Acute Physical Fatigue and Cognitive Function During Orthostatic Challenge in Men and Women: A Neuroergonomics Investigation. Human Factors, 2020, 63, 001872082093679.	2.1	2
94	Effect of Social Stress on Motor Function in Older Adults: an fNIRS Investigation. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 31-31.	0.2	1
95	Addendum: Mehta et al. Standing Up for Learning: A Pilot Investigation on the Neurocognitive Benefits of Stand-Biased School Desks. Int. J. Environ. Res. Public Health 2016, 13(1), 59; doi:10.3390/ijerph13010059. International Journal of Environmental Research and Public Health, 2018, 15, 532.	1.2	1
96	Physiological and psychological aspects. , 2020, , 839-846.		1
97	Neural Basis Analysis of Firefighters' Wayfinding Performance via Functional Near-Infrared Spectroscopy. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	1
98	A Comparison Of Four Sensory Condition Protocols on the mCTSIB Balance Tests In Aging Adults. Medicine and Science in Sports and Exercise, 2014, 46, 690-691.	0.2	0
99	The Impact of Cognitive Fatigue on Age-related Differences in Neuromuscular Function. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1924-1928.	0.2	0
100	Muscle Oxygenation Correlates of Handgrip Fatigue with Obesity. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1031-1035.	0.2	0
101	Functional Brain Activation During Lower Extremity Neuromuscular Fatigue In Older Women. Medicine and Science in Sports and Exercise, 2017, 49, 695.	0.2	0
102	Lingual and non-lingual safety training methodology effectiveness: Does language of origin impact effectiveness. International Journal of Industrial Ergonomics, 2021, 86, 103183.	1.5	0
103	Neuromuscular Fatigue mechanisms in Type 1 diabetic men and women. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 960-961.	0.2	О
104	Neural Efficiency of Human-Exoskeleton Interactions during Asymmetrical Manual Handling Tasks. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 884-884.	0.2	0
105	Neuroergonomic Applications in Information Visualization. Cognitive Science and Technology, 2020, , 435-449.	0.2	Ο
106	Current state of worker fatigue assessment and associated recommendations in oil and gas and petrochemical industries. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 1593-1597.	0.2	0
107	The role of the prefrontal cortex on motor performance under stress in older adults. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 26-26.	0.2	Ο
108	Visuospatial Working Memory under Fatigue: Observations with Cerebral Hemodynamics and Heart Rate Variability. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 349-351.	0.2	0

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109	Neuroergonomics Metrics to evaluate Exoskeleton based Gait Rehabilitation. , 2020, , .		о
110	Detection of Tremor Associated with Rest and Effort Activity Using Machine Learning. , 2020, , .		0
111	The Role of Spatial Information in Search and Rescue: A Virtual Reality Experiment. , 2022, , .		0