

Ranjana K Mehta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,277
citations

19
h-index

32
g-index

114
ext. papers

1,660
ext. citations

2.9
avg, IF

5.43
L-index

#	Paper	IF	Citations
101	Neuroergonomics: a review of applications to physical and cognitive work. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 889	3.3	129
100	Influence of mental workload on muscle endurance, fatigue, and recovery during intermittent static work. <i>European Journal of Applied Physiology</i> , 2012 , 112, 2891-902	3.4	123
99	Addendum: Mehta et al. Standing Up for Learning: A Pilot Investigation on the Neurocognitive Benefits of Stand-Biased School Desks. <i>Int. J. Environ. Res. Public Health</i> 2016, 13(1), 59; doi:10.3390/ijerph13010059. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13, 592	4.6	78
98	Effects of mental fatigue on the development of physical fatigue: a neuroergonomic approach. <i>Human Factors</i> , 2014 , 56, 645-56	3.8	76
97	Impacts of obesity and stress on neuromuscular fatigue development and associated heart rate variability. <i>International Journal of Obesity</i> , 2015 , 39, 208-13	5.5	44
96	Standing Up for Learning: A Pilot Investigation on the Neurocognitive Benefits of Stand-Biased School Desks. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 13, ijerph13010059 ⁴⁶	4.6	43
95	Effects of concurrent physical and mental demands for a short duration static task. <i>International Journal of Industrial Ergonomics</i> , 2011 , 41, 488-493	2.9	40
94	Prefrontal Hemodynamics of Physical Activity and Environmental Complexity During Cognitive Work. <i>Human Factors</i> , 2017 , 59, 147-162	3.8	38
93	Muscle- and task-dependent responses to concurrent physical and mental workload during intermittent static work. <i>Ergonomics</i> , 2012 , 55, 1166-79	2.9	33
92	Call Center Productivity Over 6 Months Following a Standing Desk Intervention. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2016 , 4, 188-195		28
91	Obesity-related differences in neural correlates of force control. <i>European Journal of Applied Physiology</i> , 2014 , 114, 197-204	3.4	26
90	The effect of cognitive fatigue on prefrontal cortex correlates of neuromuscular fatigue in older women. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 115	5.3	25
89	The effects of obesity, age, and relative workload levels on handgrip endurance. <i>Applied Ergonomics</i> , 2015 , 46 Pt A, 91-5	4.2	24
88	Analysis of individual and occupational risk factors on task performance and biomechanical demands for a simulated drilling task. <i>International Journal of Industrial Ergonomics</i> , 2010 , 40, 584-591	2.9	23
87	Obesity-specific neural cost of maintaining gait performance under complex conditions in community-dwelling older adults. <i>Clinical Biomechanics</i> , 2016 , 35, 42-8	2.2	21
86	Functional Connectivity During Handgrip Motor Fatigue in Older Adults Is Obesity and Sex-Specific. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 455	3.3	21
85	Assessing physical activity among young adults attending a university: the role of sex, race/ethnicity, technology use, and sleep. <i>BMC Public Health</i> , 2017 , 17, 721	4.1	20

84	Effects of physical and mental demands on shoulder muscle fatigue. <i>Work</i> , 2012 , 41 Suppl 1, 2897-901	1.6	20
83	Impact of cognitive fatigue on gait and sway among older adults: A literature review. <i>Preventive Medicine Reports</i> , 2017 , 6, 88-93	2.6	19
82	Disaster Ergonomics: Human Factors in COVID-19 Pandemic Emergency Management. <i>Human Factors</i> , 2020 , 62, 1061-1068	3.8	19
81	Stunted PFC activity during neuromuscular control under stress with obesity. <i>European Journal of Applied Physiology</i> , 2016 , 116, 319-26	3.4	19
80	Exertion-Dependent Effects of Physical and Mental Workload on Physiological Outcomes and Task Performance. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2013 , 1, 3-15		19
79	Ergonomic evaluation of hospital bed design features during patient handling tasks. <i>International Journal of Industrial Ergonomics</i> , 2011 , 41, 647-652	2.9	19
78	Comparison of objective and subjective operator fatigue assessment methods in offshore shiftwork. <i>Journal of Loss Prevention in the Process Industries</i> , 2017 , 48, 376-381	3.5	18
77	Relationship Between BMI and Fatigability Is Task Dependent. <i>Human Factors</i> , 2017 , 59, 722-733	3.8	18
76	Classifying Major Depressive Disorder Using fNIRS During Motor Rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 961-969	4.8	18
75	A neurophysiological approach to assess training outcome under stress: A virtual reality experiment of industrial shutdown maintenance using Functional Near-Infrared Spectroscopy (fNIRS). <i>Advanced Engineering Informatics</i> , 2020 , 46, 101153	7.4	18
74	Methodological Approaches and Recommendations for Functional Near-Infrared Spectroscopy Applications in HF/E Research. <i>Human Factors</i> , 2020 , 62, 613-642	3.8	18
73	Cognitive challenges, aging, and neuromuscular fatigue. <i>Physiology and Behavior</i> , 2017 , 170, 19-26	3.5	16
72	Subjective evaluation of physical and mental workload interactions across different muscle groups. <i>Journal of Occupational and Environmental Hygiene</i> , 2015 , 12, 62-8	2.9	16
71	Technologies for Opioid Use Disorder Management: Mobile App Search and Scoping Review. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e15752	5.5	13
70	Evaluating advanced driver-assistance system trainings using driver performance, attention allocation, and neural efficiency measures. <i>Applied Ergonomics</i> , 2020 , 84, 103036	4.2	12
69	Neuromuscular Control and Performance Differences Associated With Gender and Obesity in Fatiguing Tasks Performed by Older Adults. <i>Frontiers in Physiology</i> , 2018 , 9, 800	4.6	11
68	Operator situation awareness and physiological states during offshore well control scenarios. <i>Journal of Loss Prevention in the Process Industries</i> , 2018 , 55, 332-337	3.5	10
67	Associations between psychosocial risk factors and musculoskeletal disorders: application to the IT profession in India. <i>Work</i> , 2012 , 41 Suppl 1, 2438-44	1.6	9

66	Spatial knowledge and firefighters wayfinding performance: A virtual reality search and rescue experiment. <i>Safety Science</i> , 2021 , 139, 105231	5.8	9
65	Integrating Physical and Cognitive Ergonomics. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2016 , 4, 83-87		9
64	Sit-Stand Desk Software Can Now Monitor and Prompt Office Workers to Change Health Behaviors. <i>Human Factors</i> , 2019 , 61, 816-824	3.8	9
63	Neural Efficiency of Human-Robotic Feedback Modalities Under Stress Differs With Gender. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 287	3.3	8
62	The effect of obesity on central activation failure during ankle fatigue: a pilot investigation. <i>Fatigue: Biomedicine, Health and Behavior</i> , 2016 , 4, 115-126	2.3	8
61	Task and sex differences in muscle oxygenation during handgrip fatigue development. <i>Ergonomics</i> , 2018 , 61, 1646-1656	2.9	8
60	Age-specific neural strategies to maintain motor performance after an acute social stress bout. <i>Experimental Brain Research</i> , 2017 , 235, 2049-2057	2.3	7
59	The past, present and future of opioid withdrawal assessment: a scoping review of scales and technologies. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 113	3.6	7
58	Computer-based Prompt's impact on postural variability and sit-stand desk usage behavior; a cluster randomized control trial. <i>Applied Ergonomics</i> , 2019 , 79, 17-24	4.2	7
57	Static and Dynamic Work Activity Classification from a Single Accelerometer: Implications for Ergonomic Assessment of Manual Handling Tasks. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2019 , 7, 59-68	4	7
56	Assessing ergonomic risks of software: Development of the SEAT. <i>Applied Ergonomics</i> , 2017 , 59, 377-386	4.2	6
55	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3049-3056	4.2	6
54	Development of the Fatigue Risk Assessment and Management in High-Risk Environments (FRAME) Survey: A Participatory Approach. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	6
53	Wearable Sensors and Their Metrics for Measuring Comprehensive Occupational Fatigue: A Scoping Review. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2017 , 61, 1041-1045	0.4	5
52	Evaluation of Offshore Shiftwork using Heart Rate Variability. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2017 , 61, 1036-1039	0.4	5
51	Neural Correlates of Physical and Mental Fatigue. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012 , 56, 2172-2176	0.4	5
50	Human Factors Considerations and Metrics in Shared Space Human-Robot Collaboration: A Systematic Review.. <i>Frontiers in Robotics and AI</i> , 2022 , 9, 799522	2.8	5
49	Grand Field Challenges for Cognitive Neuroergonomics in the Coming Decade. <i>Frontiers in Neuroergonomics</i> , 2021 , 2,	5.3	5

48	Brain Activity-Based Metrics for Assessing Learning States in VR under Stress among Firefighters: An Explorative Machine Learning Approach in Neuroergonomics. <i>Brain Sciences</i> , 2021 , 11,	3.4	5
47	Neural and biomechanical tradeoffs associated with human-exoskeleton interactions. <i>Applied Ergonomics</i> , 2021 , 96, 103494	4.2	5
46	Bimanual coordination patterns are stabilized under monitoring-pressure. <i>Experimental Brain Research</i> , 2017 , 235, 1909-1918	2.3	3
45	Investigating Fatigue in Offshore Drilling Workers: A Qualitative Data Analysis of Interviews. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2019 , 7, 31-42	4	3
44	Expert monitoring and verbal feedback as sources of performance pressure. <i>Acta Psychologica</i> , 2018 , 186, 39-46	1.7	3
43	Reliability analyses and values of isometric shoulder flexion and trunk extension strengths stratified by body mass index. <i>PLoS ONE</i> , 2019 , 14, e0219090	3.7	3
42	Field Methods to Quantify Emergency Responder Fatigue: Lessons Learned from sUAS Deployment at the 2018 Kilauea Volcano Eruption. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2020 , 8, 166-174	4	3
41	Investigating the Efficacy of Using Hand Tremors for Early Detection of Hypoglycemic Events: A Scoping Literature Review. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 1211-1215	0.4	3
40	Modeling Brain Dynamics During Virtual Reality-Based Emergency Response Learning Under Stress. <i>Human Factors</i> , 2021 , 187208211054894	3.8	3
39	Testing the efficacy of existing force-endurance models to account for the prevalence of obesity in the workforce. <i>Journal of Occupational and Environmental Hygiene</i> , 2017 , 14, 786-792	2.9	2
38	. <i>IEEE Sensors Journal</i> , 2020 , 20, 11183-11190	4	2
37	Is Functional Near Infrared Spectroscopy (fNIRS) Appropriate for your Research?. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 188-190	0.4	2
36	The Effects of Obesity and Workload on Hand Grip Endurance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013 , 57, 953-957	0.4	2
35	Mind over body: A neuroergonomic approach to assessing motor performance under stress in older adults.. <i>Applied Ergonomics</i> , 2022 , 101, 103691	4.2	2
34	Stress Detection during Motor Activity: Comparing Neurophysiological Indices in Older Adults. <i>IEEE Transactions on Affective Computing</i> , 2022 , 1-1	5.7	2
33	Neural Signatures of Handgrip Fatigue in Type 1 Diabetic Men and Women. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 564969	3.3	2
32	Obesity effect on isometric strength of the trunk extensors. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 943-947	0.4	2
31	Fatigue Monitoring and Management across Different Industries. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 993-996	0.4	2

30	First and Immediate Responders: Current Capability Needs and Research Challenges. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019 , 63, 640-641	0.4	2
29	Human in Focus: Future Research and Applications of Ubiquitous User Monitoring. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019 , 63, 168-172	0.4	2
28	Neural Correlates of Trust in Automation: Considerations and Generalizability Between Technology Domains. <i>Frontiers in Neuroergonomics</i> , 2021 , 2,	5.3	2
27	Anodal tDCS augments and preserves working memory beyond time-on-task deficits. <i>Scientific Reports</i> , 2021 , 11, 19134	4.9	2
26	A Methodological Framework to Capture Neuromuscular Fatigue Mechanisms Under Stress. <i>Frontiers in Neuroergonomics</i> , 2021 , 2,	5.3	2
25	Effect of Social Stress on Motor Function in Older Adults: an fNIRS Investigation. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2017 , 61, 31-31	0.4	1
24	Design for stress, fatigue, and workload management 2020 , 201-226		1
23	Smart Software Can Increase Sit-Stand Desk Transitions During Active Computer Use. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	1
22	Towards a Closed-Loop Neurostimulation Platform for Augmenting Operator Vigilance 2020 ,		1
21	Diabetes Management Experience and the State of Hypoglycemia: National Online Survey Study (Preprint)		1
20	Diabetes Management Experience and the State of Hypoglycemia: National Online Survey Study. <i>JMIR Diabetes</i> , 2020 , 5, e17890	2.7	1
19	Physiological and psychological aspects 2020 , 839-846		1
18	Classification of Fatigue Phases in Healthy and Diabetic Adults Using Wearable Sensor. <i>Sensors</i> , 2020 , 20,	3.8	1
17	A Quantitative Evaluation of Electric Sit-Stand Desk Usage: 3-Month In-Situ Workplace Study. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2018 , 6, 76-83	4	1
16	Non-invasive Wearable System for Hypoglycemia Detection: A Proof of Concept User-Centered Design Process. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 1052-1056	0.4	1
15	Fatigue indicators of 12-hour day and night shifts in simulated offshore well control scenarios. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 897-899	0.4	1
14	Health-related consequences of the type and utilization rates of electronic devices by college students. <i>BMC Public Health</i> , 2021 , 21, 1970	4.1	0
13	Relationship Between Acute Physical Fatigue and Cognitive Function During Orthostatic Challenge in Men and Women: A Neuroergonomics Investigation. <i>Human Factors</i> , 2021 , 63, 1437-1448	3.8	0

- 12 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 4.5 0
- 11 The Impact of Cognitive Fatigue on Age-related Differences in Neuromuscular Function: A Neuroergonomic Approach. *Proceedings of the Human Factors and Ergonomics Society*, **2014**, 58, 1924-1928^{0.4}
- 10 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^{0.4}
- 9 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 0.4
- 8 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 0.4
- 7 Lingual and non-lingual safety training methodology effectiveness: Does language of origin impact effectiveness. *International Journal of Industrial Ergonomics*, **2021**, 86, 103183 2.9
- 6 Neuromuscular Fatigue mechanisms in Type 1 diabetic men and women. *Proceedings of the Human Factors and Ergonomics Society*, **2020**, 64, 960-961 0.4
- 5 Neural Efficiency of Human-Exoskeleton Interactions during Asymmetrical Manual Handling Tasks. *Proceedings of the Human Factors and Ergonomics Society*, **2020**, 64, 884-884 0.4
- 4 Neuroergonomic Applications in Information Visualization. *Cognitive Science and Technology*, **2020**, 435-442
- 3 Muscle Oxygenation Correlates of Handgrip Fatigue with Obesity. *Proceedings of the Human Factors and Ergonomics Society*, **2016**, 60, 1031-1035 0.4
- 2 Human-centered intelligent training for emergency responders. *AI Magazine*, **2022**, 43, 83-92 6.1
- 1 A Window Into the Tired Brain: Neurophysiological Dynamics of Visuospatial Working Memory Under Fatigue.. *Human Factors*, **2022**, 187208221094900 3.8