

# Mikael Forsman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/371947/publications.pdf>

Version: 2024-02-01

99  
papers

2,672  
citations

172207

29  
h-index

197535

49  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic evaluation of observational methods assessing biomechanical exposures at work. <i>Scandinavian Journal of Work, Environment and Health</i> , 2010, 36, 3-24.	1.7	414
2	Variability in mechanical exposure within and between individuals performing a highly constrained industrial work task. <i>Ergonomics</i> , 2003, 46, 800-824.	1.1	150
3	Effects of experimentally induced mental and physical stress on motor unit recruitment in the trapezius muscle. <i>Work and Stress</i> , 2002, 16, 166-178.	2.8	136
4	An integrated analysis of ergonomics and time consumption in Swedish "craft-type" car disassembly. <i>Applied Ergonomics</i> , 2005, 36, 263-273.	1.7	85
5	Intraoperative workload in robotic surgery assessed by wearable motion tracking sensors and questionnaires. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017, 31, 877-886.	1.3	84
6	Consistency in physiological stress responses and electromyographic activity during induced stress exposure in women and men. <i>Integrative Psychological and Behavioral Science</i> , 2004, 39, 105-118.	0.3	82
7	Variation between seated and standing/walking postures among male and female call centre operators. <i>BMC Public Health</i> , 2012, 12, 154.	1.2	80
8	MTM-based ergonomic workload analysis. <i>International Journal of Industrial Ergonomics</i> , 2002, 30, 135-148.	1.5	76
9	Intramuscular pressure of the infra- and supraspinatus muscles in relation to hand load and arm posture. <i>European Journal of Applied Physiology</i> , 2000, 83, 223-230.	1.2	71
10	Thumb joint movement and muscular activity during mobile phone texting " A methodological study. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 363-370.	0.7	62
11	Ergonomic evaluation of complex work: a participative approach employing video" computer interaction, exemplified in a study of order picking. <i>International Journal of Industrial Ergonomics</i> , 2000, 25, 435-445.	1.5	61
12	Upper Arm Postures and Movements in Female Hairdressers across Four Full Working Days. <i>Annals of Occupational Hygiene</i> , 2010, 54, 584-94.	1.9	56
13	A case study of a principally new way of materials kitting" an evaluation of time consumption and physical workload. <i>International Journal of Industrial Ergonomics</i> , 2002, 30, 49-65.	1.5	55
14	Operating hurts: a study of EAES surgeons. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2019, 33, 933-940.	1.3	49
15	An iPhone application for upper arm posture and movement measurements. <i>Applied Ergonomics</i> , 2017, 65, 492-500.	1.7	45
16	Low-threshold motor unit activity during a 1-h static contraction in the trapezius muscle. <i>International Journal of Industrial Ergonomics</i> , 2002, 30, 225-236.	1.5	42
17	A method for evaluation of manual work using synchronised video recordings and physiological measurements. <i>Applied Ergonomics</i> , 2002, 33, 533-540.	1.7	41
18	Motor-unit recruitment in the trapezius muscle during arm movements and in VDU precision work. <i>International Journal of Industrial Ergonomics</i> , 1999, 24, 619-630.	1.5	39

#	ARTICLE	IF	CITATIONS
19	Cost-efficient assessment of biomechanical exposure in occupational groups, exemplified by posture observation and inclinometry. <i>Scandinavian Journal of Work, Environment and Health</i> , 2014, 40, 252-265.	1.7	39
20	Inter- and intra- observer reliability of risk assessment of repetitive work without an explicit method. <i>Applied Ergonomics</i> , 2017, 62, 1-8.	1.7	38
21	Myofeedback training and intensive muscular strength training to decrease pain and improve work ability among female workers on long-term sick leave with neck pain: a randomized controlled trial. <i>International Archives of Occupational and Environmental Health</i> , 2011, 84, 335-346.	1.1	37
22	Validity of a small low-cost triaxial accelerometer with integrated logger for uncomplicated measurements of postures and movements of head, upper back and upper arms. <i>Applied Ergonomics</i> , 2016, 55, 108-116.	1.7	36
23	Full-Shift Trunk and Upper Arm Postures and Movements Among Aircraft Baggage Handlers. <i>Annals of Occupational Hygiene</i> , 2016, 60, 977-990.	1.9	35
24	A practical guidance for assessments of sedentary behavior at work: A PEROSH initiative. <i>Applied Ergonomics</i> , 2017, 63, 41-52.	1.7	34
25	Fusion of Heart Rate, Respiration and Motion Measurements from a Wearable Sensor System to Enhance Energy Expenditure Estimation. <i>Sensors</i> , 2018, 18, 3092.	2.1	34
26	Effects of visually demanding near work on trapezius muscle activity. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1190-1198.	0.7	33
27	Comparison of DSM-5 Classifications of Alcohol Use Disorders With Those of DSM-IV, DSM-III-R, and ICD-10 in a General Population Sample in Sweden. <i>Journal of Studies on Alcohol and Drugs</i> , 2015, 76, 773-780.	0.6	30
28	Towards Smart Work Clothing for Automatic Risk Assessment of Physical Workload. <i>IEEE Access</i> , 2018, 6, 40059-40072.	2.6	30
29	Musculoskeletal health and work ability in physically demanding occupations: study protocol for a prospective field study on construction and health care workers. <i>BMC Public Health</i> , 2014, 14, 1075.	1.2	29
30	Evaluation of physiological workload assessment methods using heart rate and accelerometry for a smart wearable system. <i>Ergonomics</i> , 2019, 62, 694-705.	1.1	28
31	Inter- and intra-rater reliability of the OCRA checklist method in video-recorded manual work tasks. <i>Applied Ergonomics</i> , 2020, 84, 103025.	1.7	26
32	Motor unit recruitment in the trapezius muscle with special reference to coarse arm movements. <i>Journal of Electromyography and Kinesiology</i> , 2001, 11, 207-216.	0.7	24
33	Identification and analysis of unsatisfactory psychosocial work situations: a participatory approach employing video-computer interaction. <i>Applied Ergonomics</i> , 2001, 32, 23-29.	1.7	22
34	Motor-unit recruitment during long-term isometric and wrist motion contractions: a study concerning muscular pain development in computer operators. <i>International Journal of Industrial Ergonomics</i> , 2002, 30, 237-250.	1.5	22
35	Mechanical exposure implications of rationalization: A comparison of two flow strategies in a Swedish manufacturing plant. <i>Applied Ergonomics</i> , 2012, 43, 1110-1121.	1.7	22
36	Neck/shoulder discomfort due to visually demanding experimental near work is influenced by previous neck pain, task duration, astigmatism, internal eye discomfort and accommodation. <i>PLoS ONE</i> , 2017, 12, e0182439.	1.1	22

#	ARTICLE	IF	CITATIONS
37	The relationship between oxygenation and myoelectric activity in the forearm and shoulder muscles of males and females. <i>European Journal of Applied Physiology</i> , 2011, 111, 647-658.	1.2	21
38	Reducing postural load in order picking through a smart workwear system using real-time vibrotactile feedback. <i>Applied Ergonomics</i> , 2020, 89, 103188.	1.7	21
39	Is what you see what you get? Standard inclinometry of set upper arm elevation angles. <i>Applied Ergonomics</i> , 2015, 47, 242-252.	1.7	20
40	Development and evaluation of RAMP II - a practitioner's tool for assessing musculoskeletal disorder risk factors in industrial manual handling. <i>Ergonomics</i> , 2020, 63, 477-504.	1.1	20
41	Assessment of time patterns of activity and rest in full-shift recordings of trapezius muscle activity - Effects of the data processing procedure. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 540-547.	0.7	19
42	Innovation and employee injury risk in automotive disassembly operations. <i>International Journal of Production Research</i> , 2018, 56, 3188-3203.	4.9	18
43	Effects of cholera toxin on the potential difference and motor responses induced by distension in the rat proximal small intestine in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, C948-C958.	1.6	17
44	Oxygenation and Hemodynamics Do Not Underlie Early Muscle Fatigue for Patients with Work-Related Muscle Pain. <i>PLoS ONE</i> , 2014, 9, e95582.	1.1	17
45	Participatory Video-Assisted Evaluation of Truck Drivers' Work Outside Cab: Deliveries in Two Types of Transport. <i>International Journal of Occupational Safety and Ergonomics</i> , 2014, 20, 477-489.	1.1	17
46	Cervical musculoskeletal disorders and their relationships with personal and work-related factors among electronic assembly workers. <i>Journal of Safety Research</i> , 2019, 71, 79-85.	1.7	16
47	Eye- and neck/shoulder-discomfort during visually demanding experimental near work. <i>Work</i> , 2012, 41, 3388-3392.	0.6	15
48	Development and evaluation of RAMP I - a practitioner's tool for screening of musculoskeletal disorder risk factors in manual handling. <i>International Journal of Occupational Safety and Ergonomics</i> , 2019, 25, 165-180.	1.1	15
49	Activity in five muscles during joint securing using pneumatic nutrunners. <i>International Journal of Industrial Ergonomics</i> , 2002, 29, 21-32.	1.5	14
50	Risk factors contributing to truck drivers' non-driving occupational accidents. <i>International Journal of Physical Distribution and Logistics Management</i> , 2018, 48, 183-199.	4.4	14
51	Exposure to Upper Arm Elevation During Work Compared to Leisure Among 12 Different Occupations Measured with Triaxial Accelerometers. <i>Annals of Work Exposures and Health</i> , 2018, 62, 689-698.	0.6	14
52	P-Ergonomics Platform: Toward Precise, Pervasive, and Personalized Ergonomics using Wearable Sensors and Edge Computing. <i>Sensors</i> , 2019, 19, 1225.	2.1	14
53	Shoulder and forearm oxygenation and myoelectric activity in patients with work-related muscle pain and healthy subjects. <i>European Journal of Applied Physiology</i> , 2013, 113, 1103-1115.	1.2	13
54	Effects of Sensor Types and Angular Velocity Computational Methods in Field Measurements of Occupational Upper Arm and Trunk Postures and Movements. <i>Sensors</i> , 2021, 21, 5527.	2.1	13

#	ARTICLE	IF	CITATIONS
55	Bias and imprecision in posture percentile variables estimated from short exposure samples. <i>BMC Medical Research Methodology</i> , 2012, 12, 36.	1.4	12
56	Activity in neck-shoulder and lower arm muscles during computer and smartphone work. <i>International Journal of Industrial Ergonomics</i> , 2019, 74, 102870.	1.5	11
57	A comparison of muscular activity during single and double mouse clicks. <i>European Journal of Applied Physiology</i> , 2005, 94, 158-167.	1.2	10
58	Head movements during two computer work tasks assessed by accelerometry. <i>Applied Ergonomics</i> , 2011, 42, 309-313.	1.7	10
59	Study on the Associations of Individual and Work-Related Factors with Low Back Pain among Manufacturing Workers Based on Logistic Regression and Structural Equation Model. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1525.	1.2	10
60	Ciliary muscle contraction force and trapezius muscle activity during manual tracking of a moving visual target. <i>Journal of Electromyography and Kinesiology</i> , 2016, 28, 193-198.	0.7	9
61	Self-recordings of upper arm elevation during cleaning – comparison between analyses using a simplified reference posture and a standard reference posture. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 402.	0.8	8
62	Effect of ciliary-muscle contraction force on trapezius muscle activity during computer mouse work. <i>European Journal of Applied Physiology</i> , 2019, 119, 389-397.	1.2	8
63	Prevention of Work-Related Musculoskeletal Disorders Using Smart Workwear – The Smart Workwear Consortium. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 477-483.	0.5	8
64	Temporal Co-Variation between Eye Lens Accommodation and Trapezius Muscle Activity during a Dynamic Near-Far Visual Task. <i>PLoS ONE</i> , 2015, 10, e0126578.	1.1	8
65	How does accelerometry-measured arm elevation at work influence prospective risk of long-term sickness absence?. <i>Scandinavian Journal of Work, Environment and Health</i> , 2022, 48, 137-147.	1.7	8
66	Participative development of packages in the food industry – evaluation of ergonomics and productivity by objective measurements. <i>Work</i> , 2012, 41, 1751-1755.	0.6	7
67	An Exploratory Study on the Physical Activity Health Paradox – Musculoskeletal Pain and Cardiovascular Load during Work and Leisure in Construction and Healthcare Workers. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2751.	1.2	7
68	Surgeons'™ physical workload in open surgery versus robot-assisted surgery and nonsurgical tasks. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, 36, 8178-8194.	1.3	7
69	Comparing two methods to record maximal voluntary contractions and different electrode positions in recordings of forearm extensor muscle activity: Refining risk assessments for work-related wrist disorders. <i>Work</i> , 2018, 59, 231-242.	0.6	6
70	Validity of heart-rate based measurements of oxygen consumption during work with light and moderate physical activity. <i>Work</i> , 2012, 41, 5475-5476.	0.6	5
71	Delivery Truck Drivers' and Stakeholders' Video-Assisted Analyses of Work Outside the Truck Cabs. <i>International Journal of Sustainable Transportation</i> , 2015, 9, 254-265.	2.1	5
72	Ergonomic risk assessment in DHM tools employing motion data - exposure calculation and comparison to epidemiological reference data. <i>International Journal of Human Factors Modelling and Simulation</i> , 2018, 6, 31.	0.1	5

#	ARTICLE	IF	CITATIONS
73	Prevalence and associated factors of lower extremity musculoskeletal disorders among manufacturing workers: a cross-sectional study in China. <i>BMJ Open</i> , 2022, 12, e054969.	0.8	5
74	Co-variation in time between near-far accommodation of the lens and trapezius muscle activity. <i>Work</i> , 2012, 41, 3393-3397.	0.6	4
75	Delivery Truck Driversâ€™ Work Outside Their Cabs: Ergonomic Video Analyses Supplemented with National Accident Statistics. <i>Human Factors and Ergonomics in Manufacturing</i> , 2015, 25, 340-352.	1.4	4
76	Health risk appraisals in Swedish occupational health services. <i>Work</i> , 2016, 55, 849-859.	0.6	4
77	Can a metric combining arm elevation and trapezius muscle activity predict neck/shoulder pain? A prospective cohort study in construction and healthcare. <i>International Archives of Occupational and Environmental Health</i> , 2021, 94, 647-658.	1.1	4
78	Measurements and observations of movements at work for warehouse forklift truck operators. <i>International Journal of Occupational Safety and Ergonomics</i> , 2022, 28, 1840-1848.	1.1	4
79	Concerning a Work Movement Velocity Action Level Proposed in "Action Levels for the Prevention of Work-Related Musculoskeletal Disorders in the Neck and Upper Extremities: A Proposal" by Inger Arvidsson et al. (2021). <i>Annals of Work Exposures and Health</i> , 2022, 66, 130-131.	0.6	4
80	Effectiveness and usability of real-time vibrotactile feedback training to reduce postural exposure in real manual sorting work. <i>Ergonomics</i> , 2022, , 1-19.	1.1	4
81	Derived patterns of musculoskeletal symptoms and their relationships with ergonomic factors among electronic assembly workers: A latent class analysis. <i>Journal of Safety Research</i> , 2022, , .	1.7	4
82	Temporal aspects of increases in eye-neck activation levels during visually deficient near work. <i>Work</i> , 2012, 41, 3379-3384.	0.6	3
83	Digging deeper into the assessment of upper arm elevation angles using standard inclinometry. <i>Applied Ergonomics</i> , 2015, 51, 102-103.	1.7	2
84	Non-participation in initial and repeated health risk appraisals "a drop-out analysis based on a health project. <i>BMC Health Services Research</i> , 2019, 19, 130.	0.9	2
85	Exploring ergonomistsâ€™ experiences after participation in a theoretical and practical research project on observational risk assessment tools. <i>International Journal of Occupational Safety and Ergonomics</i> , 2022, 28, 1136-1144.	1.1	2
86	Mechanisms for Work Related Disorders Among Computer Workers. <i>Lecture Notes in Computer Science</i> , 2007, , 57-64.	1.0	2
87	Welding Fume Retention in Lungs of Previously Unexposed Subjects. , 1989, , 477-480.		2
88	Ergonomic Evaluation of a Prototype Console for Robotic Surgeries via Simulations with Digital Human Manikins. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 351-363.	0.5	2
89	A possible revival of population-representing digital human manikins in static work situations "exemplified through an evaluation of a prototype console for robotic surgery. <i>Work</i> , 2021, 70, 1-19.	0.6	2
90	Reaction force exposure for tightening tool users: A psychophysical based experimental study of electric right-angle nutrunners. <i>Applied Ergonomics</i> , 2022, 103, 103776.	1.7	2

#	ARTICLE	IF	CITATIONS
91	Delivery truck driversâ€™ work outside the cab: psychosocial discomforts and risks based on participatory video analyses. <i>European Transport Research Review</i> , 2018, 10, .	2.3	1
92	A Low-Cost Sensor-Based Smartphone App for Wrist Velocity Measurements. <i>Lecture Notes in Networks and Systems</i> , 2021, , 763-767.	0.5	1
93	Motor-Unit Recruitment in the Trapezius Muscle during a Computer Typing Task. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000, 44, 640-643.	0.2	0
94	Temporal Dependence of Trapezius Muscle Activation during Sustained Eye-Lens Accommodation at Near. <i>Lecture Notes in Computer Science</i> , 2013, , 269-275.	1.0	0
95	Reaction Force Exposure for Tightening Tool Users: An Experimental Study on Nutrunners. <i>Lecture Notes in Networks and Systems</i> , 2021, , 423-431.	0.5	0
96	Towards Innovative Bathroom Solutions for All - A Needs Analysis. <i>Lecture Notes in Networks and Systems</i> , 2021, , 376-383.	0.5	0
97	Concrete Casting â€“ Construction Engineersâ€™ Attitudes and Knowledge About Work Environment, Risk Factors, Injuries and Self-compacting Concrete. <i>Lecture Notes in Networks and Systems</i> , 2021, , 323-328.	0.5	0
98	Smart Work Clothes Give Better Health - Through Improved Work Technique, Work Organization and Production Technology. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 515-519.	0.5	0
99	Sleep-Related Problems and Associations with Occupational Factors among Home Care Personnel. <i>Nordic Journal of Working Life Studies</i> , 0, , .	0.5	0