Afshin Samani

List of Publications by Year
in descending order

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96 papers	1,485 citations	279798 23 h-index	434195 31 g-index
99 all docs	99 docs citations	99 times ranked	1421 citing authors

#	Article	IF	Citations
1	Interâ€subject variability of muscle synergies during bench press in power lifters and untrained individuals. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 89-97.	2.9	69
2	Gender effects on the coordination of subdivisions of the trapezius muscle during a repetitive box-folding task. European Journal of Applied Physiology, 2013, 113, 175-182.	2.5	56
3	The DPhacto cohort: An overview of technically measured physical activity at work and leisure in blue-collar sectors for practitioners and researchers. Applied Ergonomics, 2019, 77, 29-39.	3.1	50
4	Eye movement characteristics reflected fatigue development in both young and elderly individuals. Scientific Reports, 2018, 8, 13148.	3.3	48
5	Active pauses induce more variable electromyographic pattern of the trapezius muscle activity during computer work. Journal of Electromyography and Kinesiology, 2009, 19, e430-e437.	1.7	47
6	Changes in the spatioâ€temporal organization of the trapezius muscle activity in response to eccentric contractions. Scandinavian Journal of Medicine and Science in Sports, 2011, 21, 277-286.	2.9	43
7	Neuromuscular Activity and Knee Kinematics in Adolescents with Patellofemoral Pain. Medicine and Science in Sports and Exercise, 2013, 45, 1730-1739.	0.4	43
8	Designing and evaluating a workstation in real and virtual environment: toward virtual reality based ergonomic design sessions. Journal on Multimodal User Interfaces, 2014, 8, 199-208.	2.9	42
9	Muscle coordination and force variability during static and dynamic tracking tasks. Human Movement Science, 2011, 30, 1039-1051.	1.4	38
10	Active biofeedback changes the spatial distribution of upper trapezius muscle activity during computer work. European Journal of Applied Physiology, 2010, 110, 415-423.	2.5	34
11	Strengths and limitations of a musculoskeletal model for an analysis of simulated meat cutting tasks. Applied Ergonomics, 2014, 45, 592-600.	3.1	33
12	The size and structure of arm movement variability decreased with work pace in a standardised repetitive precision task. Ergonomics, 2015, 58, 128-139.	2.1	32
13	Reliability of Oculometrics During a Mentally Demanding Task in Young and Old Adults. IEEE Access, 2018, 6, 17500-17517.	4.2	31
14	Assessing the Ability of a VR-Based Assembly Task Simulation to Evaluate PhysicalRisk Factors. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 664-674.	4.4	29
15	Effects of a Participatory Ergonomics Intervention With Wearable Technical Measurements of Physical Workload in the Construction Industry: Cluster Randomized Controlled Trial. Journal of Medical Internet Research, 2018, 20, e10272.	4.3	29
16	Between-day reliability of a hand-held dynamometer and surface electromyography recordings during isometric submaximal contractions in different shoulder positions. Journal of Electromyography and Kinesiology, 2014, 24, 579-587.	1.7	28
17	Are forward bending of the trunk and low back pain associated among Danish blue-collar workers? A cross-sectional field study based on objective measures. Ergonomics, 2015, 58, 246-258.	2.1	28
18	Variability in spatio-temporal pattern of trapezius activity and coordination of hand-arm muscles during a sustained repetitive dynamic task. Experimental Brain Research, 2017, 235, 389-400.	1.5	27

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19	Participatory intervention with objectively measured physical risk factors for musculoskeletal disorders in the construction industry: study protocol for a cluster randomized controlled trial. BMC Musculoskeletal Disorders, 2015, 16, 302.	1.9	26
20	Effects of 5 Weeks of Bench Press Training on Muscle Synergies: A Randomized Controlled Study. Journal of Strength and Conditioning Research, 2016, 30, 1948-1959.	2.1	26
21	Accuracy of identification of low or high risk lifting during standardised lifting situations. Ergonomics, 2018, 61, 710-719.	2.1	26
22	Following ergonomics guidelines decreases physical and cardiovascular workload during cleaning tasks. Ergonomics, 2012, 55, 295-307.	2.1	25
23	Muscle synergies during bench press are reliable across days. Journal of Electromyography and Kinesiology, 2016, 30, 81-88.	1.7	25
24	Effects of eccentric exercise on trapezius electromyography during computer work with active and passive pauses. Clinical Biomechanics, 2009, 24, 619-625.	1.2	24
25	Functional connectivity between core and shoulder muscles increases during isometric endurance contractions in judo competitors. European Journal of Applied Physiology, 2015, 115, 1351-1358.	2.5	23
26	Inverse relationship between the complexity of midfoot kinematics and muscle activation in patients with medial tibial stress syndrome. Journal of Electromyography and Kinesiology, 2011, 21, 638-644.	1.7	22
27	Interactive effects of acute experimental pain in trapezius and sored wrist extensor on the electromyography of the forearm muscles during computer work. Applied Ergonomics, 2011, 42, 735-740.	3.1	22
28	Effects of concurrent physical and cognitive demands on muscle activity and heart rate variability in a repetitive upper-extremity precision task. European Journal of Applied Physiology, 2016, 116, 227-239.	2.5	22
29	Experimental pain leads to reorganisation of trapezius electromyography during computer work with active and passive pauses. European Journal of Applied Physiology, 2009, 106, 857-866.	2.5	20
30	Nonlinear metrics assessing motor variability in a standardized pipetting task: Between- and within-subject variance components. Journal of Electromyography and Kinesiology, 2015, 25, 557-564.	1.7	20
31	Shoulder Kinematics and Spatial Pattern of Trapezius Electromyographic Activity in Real and Virtual Environments. PLoS ONE, 2015, 10, e0116211.	2.5	19
32	The combined influence of task accuracy and pace on motor variability in a standardised repetitive precision task. Ergonomics, 2015, 58, 1388-1397.	2.1	19
33	Effects of chronic neckâ€“shoulder pain on normalized mutual information analysis of surface electromyography during functional tasks. Clinical Neurophysiology, 2016, 127, 3110-3117.	1.5	19
34	Reduced complexity of force and muscle activity during low level isometric contractions of the ankle in diabetic individuals. Clinical Biomechanics, 2017, 42, 38-46.	1.2	19
35	The variability of the trunk forward bending in standing activities during work vs. leisure time. Applied Ergonomics, 2017, 58, 273-280.	3.1	19
36	Social support modifies association between forward bending of the trunk and low-back pain: Cross-sectional field study of blue-collar workers. Scandinavian Journal of Work, Environment and Health, 2016, 42, 125-134.	3.4	19

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37	Sensory Mapping of the Upper Trapezius Muscle in Relation to Consecutive Sessions of Eccentric Exercise. Journal of Strength and Conditioning Research, 2012, 26, 1577-1583.	2.1	17
38	Effect of exercise therapy on neuromuscular activity and knee strength in female adolescents with patellofemoral painâ€"An ancillary analysis of a cluster randomized trial. Clinical Biomechanics, 2016, 34, 22-29.	1.2	17
39	Effects of active pause pattern of surface electromyographic activity among subjects performing monotonous tasks: A systematic review. Journal of Electromyography and Kinesiology, 2016, 30, 196-208.	1.7	16
40	Ipsilateral resistance exercise prevents exercise-induced central sensitization in the contralateral limb: a randomized controlled trial. European Journal of Applied Physiology, 2015, 115, 2253-2262.	2.5	15
41	Inter-day reliability of surface electromyography recordings of the lumbar part of erector spinae longissimus and trapezius descendens during box lifting. BMC Musculoskeletal Disorders, 2017, 18, 519.	1.9	15
42	The Effect of Adjusting Screen Height and Keyboard Placement on Neck and Back Discomfort, Posture, and Muscle Activities during Laptop Work. International Journal of Human-Computer Interaction, 2021, 37, 459-469.	4.8	14
43	Physical Activity Barriers in Danish Manual Wheelchair Users: A Cross-sectional Study. Archives of Physical Medicine and Rehabilitation, 2021, 102, 687-693.	0.9	13
44	Short-term effects of implemented high intensity shoulder elevation during computer work. BMC Musculoskeletal Disorders, 2009, 10, 101.	1.9	12
45	Effects of concurrent physical and cognitive demands on arm movement kinematics in a repetitive upper-extremity precision task. Human Movement Science, 2015, 42, 89-99.	1.4	12
46	Can exposure variation be promoted in the shoulder girdle muscles by modifying work pace and inserting pauses during simulated assembly work?. Applied Ergonomics, 2018, 66, 151-160.	3.1	12
47	External and Internal Focus of Attention Increases Muscular Activation During Bench Press in Resistance-Trained Participants. Journal of Strength and Conditioning Research, 2018, 32, 2442-2451.	2.1	12
48	The Effect of Aging on Physical Performance Among Elderly Manual Workers: Protocol of a Cross-Sectional Study. JMIR Research Protocols, 2017, 6, e226.	1.0	12
49	Advanced biofeedback from surface electromyography signals using fuzzy system. Medical and Biological Engineering and Computing, 2010, 48, 865-873.	2.8	11
50	Pressure Pain Mapping of the Wrist Extensors After Repeated Eccentric Exercise at High Intensity. Journal of Strength and Conditioning Research, 2013, 27, 3045-3052.	2.1	11
51	Prediction of energy expenditure during activities of daily living by a wearable set of inertial sensors. Medical Engineering and Physics, 2020, 75, 13-22.	1.7	10
52	Wireless multichannel vibroarthrographic recordings for the assessment of knee osteoarthritis during three activities of daily living. Clinical Biomechanics, 2020, 72, 16-23.	1.2	10
53	Level of self-reported neck/shoulder pain and biomechanical workload in cleaners. Work, 2012, 41, 447-452.	1.1	9
54	Integration of active pauses and pattern of muscular activity during computer work. Ergonomics, 2017, 60, 1228-1239.	2.1	9

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55	An oculometrics-based biofeedback system to impede fatigue development during computer work: A proof-of-concept study. PLoS ONE, 2019, 14, e0213704.	2.5	9
56	Linear and nonlinear analyses of multi-channel mechanomyographic recordings reveal heterogeneous activation of wrist extensors in presence of delayed onset muscle soreness. Medical Engineering and Physics, 2014, 36, 1656-1664.	1.7	8
57	Interface Pressure Behavior during Painful Cuff Algometry. Pain Medicine, 2016, 17, pnv063.	1.9	8
58	Evaluation of five steering input devices in terms of muscle activity, upper body kinematics and steering performance during heavy machine simulator driving. International Journal of Industrial Ergonomics, 2019, 72, 137-145.	2.6	8
59	Physical-work ability and chronic musculoskeletal complaints are related to leisure-time physical activity: Cross-sectional study among manual workers aged 50â€“70 years. Scandinavian Journal of Public Health, 2019, 47, 375-382.	2.3	8
60	Cluster-based exposure variation analysis. BMC Medical Research Methodology, 2013, 13, 54.	3.1	7
61	The coordination of shoulder girdle muscles during repetitive arm movements at either slow or fast pace among women with or without neck-shoulder pain. Human Movement Science, 2017, 55, 287-295.	1.4	7
62	The effects of age and musculoskeletal pain on force variability among manual workers. Human Movement Science, 2019, 64, 19-27.	1.4	7
63	Physical performances show conflicting associations in aged manual workers. Scientific Reports, 2020, 10, 2254.	3.3	6
64	Permuted Sample Entropy. Communications in Statistics Part B: Simulation and Computation, 2010, 39, 1506-1516.	1.2	5
65	Cutting Force and EMG Recordings for Ergonomics Assessment of Meat Cutting Tasks: Influence of the Workbench Height and the Cutting Direction on Muscle Activation Levels. , 2012, , .		5
66	Designing and evaluating a workstation in real and virtual environment: From digital mock-up to realization. , 2012, , .		5
67	Adaptation of Local Muscle Blood Flow and Surface Electromyography to Repeated Bouts of Eccentric Exercise. Journal of Strength and Conditioning Research, 2015, 29, 1017-1026.	2.1	5
68	On the role of ageing and musculoskeletal pain on dynamic balance in manual workers. Journal of Electromyography and Kinesiology, 2020, 50, 102374.	1.7	5
69	Functional Connectivity Analysis on Resting-State Electroencephalography Signals Following Chiropractic Spinal Manipulation in Stroke Patients. Brain Sciences, 2020, 10, 644.	2.3	5
70	New assistive walker improved local dynamic stability in young healthy adults. Journal of Electromyography and Kinesiology, 2020, 53, 102441.	1.7	5
71	The effects of age on response time, accuracy, and shoulder/arm kinematics during hammering. Applied Ergonomics, 2021, 90, 103157.	3.1	5
72	Effect of wheelchair-modified rowing exercise on cardiometabolic risk factors in spinal cord injured wheelchair users: protocol for a randomised controlled trial. BMJ Open, 2020, 10, e040727.	1.9	4

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73	Evaluation of the effect of a newly developed steering unit with enhanced self-alignment and deadband on mental workload during driving of agricultural tractors. Applied Ergonomics, 2020, 89, 103217.	3.1	4
74	Discrimination of knee osteoarthritis patients from asymptomatic individuals based on pain sensitivity and knee vibroarthrographic recordings. Physiological Measurement, 2020, 41, 055002.	2.1	4
75	Meat Cutting Tasks Analysis Using 3D Instrumented Knife and Motion Capture. IFMBE Proceedings, 2011, , 144-147.	0.3	4
76	Principle component analysis of exposure variation analysis during computer work at presence of delayed onset muscle soreness. Work, 2012, 41, 2387-2391.	1.1	3
77	A comparison of cluster-based exposure variation and exposure variation analysis to detect muscular adaptation in the shoulder joint to subsequent sessions of eccentric exercise during computer work. Journal of Electromyography and Kinesiology, 2014, 24, 192-199.	1.7	3
78	Eccentric exercise induces spatial changes in the mechanomyographic activity of the upper trapezius muscle. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 1661-1670.	2.9	3
79	Later stages of diabetic neuropathy affect the complexity of the neuromuscular system at the knee during lowâ€level isometric contractions. Muscle and Nerve, 2018, 57, 112-121.	2.2	3
80	Sociodemographic characteristics associated with physical activity barrier perception among manual wheelchair users. Disability and Health Journal, 2021, 14, 101119.	2.8	3
81	Wheelchair-modified ergometer rowing exercise in individuals with spinal cord injury: a feasibility, acceptability, and preliminary efficacy study. Spinal Cord Series and Cases, 2022, 8, 48.	0.6	3
82	Biomechanical Assessments in Sports and Ergonomics. , 0, , .		2
83	Inter- and Intrasubject Similarity of Muscle Synergies During Bench Press With Slow and Fast Velocity. Motor Control, 2018, 22, 100-115.	0.6	2
84	Early Detection of Fatigue Based on Heart Rate in Sedentary Computer Work in Young and Old Adults. Advances in Intelligent Systems and Computing, 2019, , 104-111.	0.6	2
85	Supervised Neuro-fuzzy Biofeedback for Computer Users. IFMBE Proceedings, 2011, , 33-36.	0.3	2
86	The level of mental load during a functional task is reflected in oculometrics. IFMBE Proceedings, 2018, , 57-60.	0.3	2
87	Biomechanics of Human Movement. IFMBE Proceedings, 2011, , 237-240.	0.3	1
88	Heart Rate Monitoring for the Detection of Changes in Mental Demands During Computer Work. IFMBE Proceedings, 2019, , 367-370.	0.3	1
89	Sitting dynamics during computer work are age-dependent. Applied Ergonomics, 2021, 93, 103391.	3.1	1
90	Functional orderly arrangement of the trapezius sud-divisions indicated by mutual information of SEMG signals. , 2008, , .		0

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91	Internal and External Focus of Attention During Bench Press Results in Increased EMG Amplitudes. Medicine and Science in Sports and Exercise, 2017, 49, 391-392.	0.4	0
92	Smattress: A Smart Mattress Providing an Active Unobstructive Bedding System Based on Musculoskeletal Modeling. Biosystems and Biorobotics, 2014, , 869-870.	0.3	0
93	Functional connectivity of hand-arm muscles during a repetitive dynamic task. IFMBE Proceedings, 2018, , 13-16.	0.3	0
94	The Effect of Short Time Computer Work on Muscle Oxygenation in Presence of Delayed Onset Muscle Soreness. Advances in Intelligent Systems and Computing, 2019, , 22-31.	0.6	0
95	Force Variability and Musculoskeletal Pain in Blue-Collar Workers. Advances in Intelligent Systems and Computing, 2019, , 59-67.	0.6	0
96	Characterization of the Dynamics of Sitting During a Sustained and Mentally Demanding Computer Task. Advances in Intelligent Systems and Computing, 2019, , 338-344.	0.6	0