## Gary A Mirka

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5397396/publications.pdf Version: 2024-02-01



**CADY Δ ΜΙDKA** 

#	Article	IF	CITATIONS
1	Exploring the relationship between neck flexion and neck problems in occupational populations: a systematic review of the literature. Ergonomics, 2022, 65, 587-603.	1.1	6
2	Effects of passive exoskeleton support on EMG measures of the neck, shoulder and trunk muscles while holding simulated surgical postures and performing a simulated surgical procedure. Applied Ergonomics, 2022, 100, 103646.	1.7	25
3	Development of a Test Battery for Fatigue Assessment of Agriculture Seating Systems: A Laboratory and Field Study. Journal of Agromedicine, 2022, , 1-13.	0.9	1
4	Development and Assessment of a Method to Estimate the Value of a Maximum Voluntary Isometric Contraction Electromyogram from Submaximal Electromyographic Data. Journal of Applied Biomechanics, 2022, 38, 76-83.	0.3	2
5	Effects of break scheduling strategies on subjective and objective measures of neck and shoulder muscle fatigue in asymptomatic adults performing a standing task requiring static neck flexion. Applied Ergonomics, 2021, 92, 103311.	1.7	6
6	Trunk kinematic variability as a function of time during the early phase of a repetitive lifting task. Human Factors and Ergonomics in Manufacturing, 2021, 31, 291-299.	1.4	1
7	Inter-individual variability in a repetitive lifting task. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 833-837.	0.2	1
8	Impact of a Neck Strap Intervention on Perceived Effort, Thumb Force, and Muscle Activity of Clarinetists. Medical Problems of Performing Artists, 2021, 36, 225-232.	0.2	1
9	The effects of repetitive bouts of a fatiguing exertion (with breaks) on the slope of EMG measures of localized muscle fatigue. Journal of Electromyography and Kinesiology, 2020, 51, 102382.	0.7	8
10	Technical note: Using Johnson distributions to model trunk kinematics. Theoretical Issues in Ergonomics Science, 2020, , 1-12.	1.0	0
11	Effect of surgical radiation personal protective equipment on EMG-based measures of back and shoulder muscle fatigue: A laboratory study of novices. Applied Ergonomics, 2020, 84, 103029.	1.7	12
12	The effects of load weight and load starting height on variability of lifting kinematics and kinetics. International Journal of Industrial Ergonomics, 2019, 73, 102830.	1.5	6
13	Effect of Time on the Variability of Lifting Kinematics in a Repetitive Lifting Task. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 910-914.	0.2	2
14	Effect of Load Weight and Starting Height on the Variability of Trunk Kinematics. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 905-909.	0.2	3
15	Combined effect of low back muscle fatigue and passive tissue elongation on the flexion-relaxation response. Applied Ergonomics, 2017, 63, 72-78.	1.7	3
16	A systems-level perspective of the biomechanics of the trunk flexion-extension movement: Part II – Fatigued low back conditions. International Journal of Industrial Ergonomics, 2015, 46, 1-6.	1.5	7
17	A systems-level perspective of the biomechanics of the trunk flexion-extension movement: Part I – Normal low back condition. International Journal of Industrial Ergonomics, 2015, 46, 7-11.	1.5	13
18	Trunk muscle fatigue and its implications in EMG-assisted biomechanical modeling. International Journal of Industrial Ergonomics, 2013, 43, 425-429.	1.5	13

#	Article	IF	CITATIONS
19	Medial knee joint loading during stair ambulation and walking while carrying loads. Gait and Posture, 2013, 37, 460-462.	0.6	16
20	An algorithm for defining the onset and cessation of the flexion-relaxation phenomenon in the low back musculature. Journal of Electromyography and Kinesiology, 2012, 22, 376-382.	0.7	36
21	Describing the active region boundary of EMG-assisted biomechanical models of the low back. Clinical Biomechanics, 2012, 27, 422-427.	0.5	29
22	Influence of asymmetry on the flexion relaxation response of the low back musculature. Clinical Biomechanics, 2011, 26, 35-39.	0.5	41
23	Ergonomic interventions for commercial crab fishermen. International Journal of Industrial Ergonomics, 2011, 41, 481-487.	1.5	16
24	The effect of stance width on trunk kinematics and trunk kinetics during sagitallyÂsymmetric lifting. International Journal of Industrial Ergonomics, 2011, 41, 147-152.	1.5	17
25	The effect of a lower extremity kinematic constraint on lifting biomechanics. Applied Ergonomics, 2011, 42, 867-872.	1.7	5
26	Medial Longitudinal Arch Deformation during Walking and Stair Navigation While Carrying Loads. Foot and Ankle International, 2011, 32, 623-629.	1,1	12
27	The effect of sinusoidal rolling ground motion on lifting biomechanics. Applied Ergonomics, 2010, 42, 131-137.	1.7	19
28	Lifting Kinematics and Kinetics during Simulated Boat Motions. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1178-1181.	0.2	0
29	Hand-hold location and trunk kinematics during box handling. Ergonomics, 2010, 53, 1033-1038.	1.1	5
30	The effects of horizontal load speed and lifting frequency on lifting technique and biomechanics. Ergonomics, 2010, 53, 1024-1032.	1.1	8
31	Analysis of Alternative Keyboards Using Learning Curves. Human Factors, 2009, 51, 35-45.	2.1	17
32	Ergonomic risk factors for low back pain in North Carolina crab pot and gill net commercial fishermen. American Journal of Industrial Medicine, 2009, 52, 311-321.	1.0	42
33	Biomechanical evaluation of postures assumed when harvesting from bush crops. International Journal of Industrial Ergonomics, 2009, 39, 347-352.	1.5	23
34	An evaluation of arborist handsaws. Applied Ergonomics, 2009, 40, 8-14.	1.7	10
35	The effects of a suspended-load backpack on gait. Gait and Posture, 2009, 29, 151-153.	0.6	24
36	College students and computers: Assessment of usage patterns and musculoskeletal discomfort. Work, 2009, 32, 285-298.	0.6	35

#	Article	IF	CITATIONS
37	Coordination indices between lifting kinematics and kinetics. International Journal of Industrial Ergonomics, 2008, 38, 1062-1066.	1.5	1
38	The effects of obesity on lifting performance. Applied Ergonomics, 2008, 39, 93-98.	1.7	51
39	Evaluating Ergonomic Stresses in North Carolina Commercial Crab Pot and Gill Net Fishermen. Journal of Occupational and Environmental Hygiene, 2008, 5, 182-196.	0.4	16
40	Application of an Entropy-Assisted Optimization Model in Prediction of Agonist and Antagonist Muscle Forces. Proceedings of the Human Factors and Ergonomics Society, 2007, 51, 923-927.	0.2	4
41	A biomechanical analysis of anterior load carriage. Ergonomics, 2007, 50, 2104-2117.	1.1	46
42	The Effect of a Knee Support on the Biomechanical Response of the Low Back. Journal of Applied Biomechanics, 2007, 23, 275-281.	0.3	2
43	An in vivo assessment of the low back response to prolonged flexion: Interplay between active and passive tissues. Clinical Biomechanics, 2007, 22, 965-971.	0.5	85
44	Ergonomic interventions for the reduction of back and shoulder biomechanical loading when weighing calves. International Journal of Industrial Ergonomics, 2007, 37, 103-110.	1.5	14
45	An evaluation of backpack harness systems in non-neutral torso postures. Applied Ergonomics, 2007, 38, 541-547.	1.7	20
46	Learning curve analysis of a patient lift-assist device. Applied Ergonomics, 2007, 38, 765-771.	1.7	10
47	Low-level exertions of the neck musculature: A study of research methods. Journal of Electromyography and Kinesiology, 2006, 16, 485-497.	0.7	30
48	A Laboratory Study of the Effects of Wrist Splint Orthoses on Forearm Muscle Activity and Upper Extremity Posture. Human Factors, 2006, 48, 499-510.	2.1	9
49	Differences in trunk kinematics and ground reaction forces between older and younger adults during lifting. International Journal of Industrial Ergonomics, 2006, 36, 767-772.	1.5	20
50	Effects of age on muscle activity and upper body kinematics during a repetitive forearm supination task. International Journal of Industrial Ergonomics, 2006, 36, 951-957.	1.5	5
51	An Adaptive System Identification Model of the Biomechanical Response of the Human Trunk During Sudden Loading. Journal of Biomechanical Engineering, 2006, 128, 235-241.	0.6	8
52	Evaluation of a Redesigned Self-Checkout Station for Wheelchair Users. Assistive Technology, 2006, 18, 15-24.	1.2	10
53	The Effect of a Repetitive, Fatiguing Lifting Task on Horizontal Ground Reaction Forces. Journal of Applied Biomechanics, 2005, 21, 260-270.	0.3	6
54	Use of the CABS methodology to assess biomechanical stress in commercial crab fishermen. Applied Ergonomics, 2005, 36, 61-70.	1.7	19

#	Article	IF	CITATIONS
55	Development of an ergonomics guideline for the furniture manufacturing industry. Applied Ergonomics, 2005, 36, 241-247.	1.7	14
56	A laboratory investigation of personality type and break-taking behavior. International Journal of Industrial Ergonomics, 2005, 35, 237-246.	1.5	4
57	Adaptive system identification applied to the biomechanical response of the human trunk during sudden loading. Journal of Biomechanics, 2005, 38, 2472-2479.	0.9	13
58	The Effects of Fatigue from Repeated Trunk Extensions on Trunk Muscle Activity. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1315-1319.	0.2	0
59	Differences in Trunk Kinematics and Ground Reaction Forces Between Older and Younger Adults during Lifting. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 177-181.	0.2	1
60	Viscoelastic Responses of the Lumbar Spine during Prolonged Stooping. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1269-1273.	0.2	7
61	A study of lifting tasks performed on laterally slanted ground surfaces. Ergonomics, 2005, 48, 782-795.	1.1	19
62	Assessing the Effects of Positive Feedback and Reinforcement in the Introduction Phase of an Ergonomic Intervention. Human Factors, 2005, 47, 526-535.	2.1	5
63	Lifting Performed on Laterally Slanted Ground Surfaces. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1325-1329.	0.2	0
64	Application of Universal Design Principles in the Design of a Self-Checkout System. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 1111-1115.	0.2	0
65	Productivity and Ergonomic Investigation of Bent-Handle Pliers. Human Factors, 2004, 46, 234-243.	2.1	6
66	The effects of a sloped ground surface on trunk kinematics and L5/S1 moment during lifting. Ergonomics, 2004, 47, 646-659.	1.1	34
67	Cervicobrachial muscle response to cognitive load in a dual-task scenario. Ergonomics, 2004, 47, 625-645.	1.1	38
68	Influence of knee angle and individual flexibility on the flexion–relaxation response of the low back musculature. Journal of Electromyography and Kinesiology, 2004, 14, 485-494.	0.7	60
69	Ergonomic interventions for the reduction of low back stress in framing carpenters in the home building industry. International Journal of Industrial Ergonomics, 2003, 31, 397-409.	1.5	22
70	The Effects of Personality Type and Stress on Muscle Activity during Simulated Work Tasks. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 1159-1163.	0.2	0
71	The Effect of Personality Type on Assembly Time and Wrist Kinematics during a Laboratory Task. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1105-1109.	0.2	1
72	Nonlinear System Identification Applied to the Biomechanical Response of the Human Trunk during Sudden Loading. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1076-1080.	0.2	0

Gary A Mirka

#	Article	IF	CITATIONS
73	Use of the Cabs Methodology to Assess Biomechanical Stress in Commercial Crab Fishermen. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1152-1156.	0.2	0
74	Effect of Grip Span on Lateral Pinch Grip Strength. Human Factors, 2002, 44, 569-577.	2.1	31
75	Ergonomic interventions for the furniture manufacturing industry. Part l—lift assist devices. International Journal of Industrial Ergonomics, 2002, 29, 263-273.	1.5	21
76	Ergonomic interventions for the furniture manufacturing industry. Part II—Handtools. International Journal of Industrial Ergonomics, 2002, 29, 275-287.	1.5	28
77	An investigation of ergonomic interventions in dental hygiene work. Applied Ergonomics, 2002, 33, 175-184.	1.7	32
78	Technical Note: The use of mirrors during an assembly task: a study of ergonomics and productivity. Ergonomics, 2001, 44, 215-228.	1.1	21
79	A field evaluation of monitor placement effects in VDT users. Applied Ergonomics, 2001, 32, 313-325.	1.7	72
80	The Influence of Head, Forearm and Back Support on Myoelectric Activity, Performance and Subjective Comfort during a VDT Task. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 1082-1086.	0.2	2
81	Assessing the Relationship between Cognitive Load and Cervicobrachial Muscle Response during a Typing Task. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 1092-1096.	0.2	1
82	Human Modeling and Simulation: Establishing Parameters for an Adjustable Notebook Computer Display. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 682-686.	0.2	0
83	Ergonomic Interventions for the Home Building Industry. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 5-703-5-706.	0.2	1
84	Transverse-Contour Modeling of Trunk Muscle–Distributed Forces and Spinal Loads During Lifting and Twisting. Spine, 2000, 25, 180.	1.0	28
85	Effects of semi-rigid arch-support orthotics: an investigation with potential ergonomic implications. Applied Ergonomics, 2000, 31, 515-522.	1.7	14
86	An empirical approach to characterizing trunk muscle coactivation using simulation input modeling techniques. Journal of Biomechanics, 2000, 33, 1701-1704.	0.9	8
87	Predicting Trunk Kinematics Using Static Task Parameters. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 158-161.	0.2	0
88	Continuous Assessment of Back Stress (CABS): A New Method to Quantify Low-Back Stress in Jobs with Variable Biomechanical Demands. Human Factors, 2000, 42, 209-225.	2.1	39
89	The Use of Mirrors during an Assembly Task: A Study of Ergonomics and Productivity. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 189-192.	0.2	3
90	Ergonomic Hand tool Interventions for the Furniture Manufacturing Industry. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 5-99-5-102.	0.2	1

#	Article	IF	CITATIONS
91	The Effect of Personality Type on Muscle Coactivation during Elbow Flexion. Human Factors, 1999, 41, 51-60.	2.1	22
92	The effects of video display terminal height on the operator: a comparison of the 15° and 40° recommendations. Applied Ergonomics, 1998, 29, 239-246.	1.7	142
93	Assessing Low Back Stress in the Construction Industry Using the Continuous Assessment of Back Stress (CABS) Method. Proceedings of the Human Factors and Ergonomics Society, 1998, 42, 886-890.	0.2	1
94	The Effects of VDT Location on User Posture and Comfort: A Field Study. Proceedings of the Human Factors and Ergonomics Society, 1998, 42, 871-875.	0.2	4
95	The interaction between load and coupling during dynamic manual materials handling tasks. Occupational Ergonomics, 1998, 1, 3-11.	0.3	12
96	Selective activation of the external oblique musculature during axial torque production. Clinical Biomechanics, 1997, 12, 172-180.	0.5	41
97	Intra-abdominal pressure during trunk extension motions. Clinical Biomechanics, 1996, 11, 267-274.	0.5	46
98	An Investigation of the Variability in Human Performance during Sagittally Symmetric Lifting Tasks. IIE Transactions, 1996, 28, 745-752.	2.1	17
99	The Use of the Multivariate Johnson Distributions to Model Trunk Muscle Coactivation. Proceedings of the Human Factors and Ergonomics Society, 1996, 40, 584-588.	0.2	0
100	Multivariate input modeling with Johnson distributions. , 1996, , .		24
101	The Effects of Lifting Frequency on the Dynamics of Lifting. Proceedings of the Human Factors and Ergonomics Society, 1995, 39, 650-654.	0.2	1
102	Selective Activation of the External Obliques during Twisting. Proceedings of the Human Factors and Ergonomics Society, 1995, 39, 610-614.	0.2	0
103	A Study of the Interaction between Load and Coupling during Lifting. Proceedings of the Human Factors and Ergonomics Society, 1994, 38, 644-648.	0.2	2
104	Electromyographic studies of the lumbar trunk musculature during the generation of low-level trunk acceleration. Journal of Orthopaedic Research, 1993, 11, 811-817.	1.2	74
105	A Stochastic Model of Trunk Muscle Coactivation During Trunk Bending. Spine, 1993, 18, 1396-1409.	1.0	184
106	A Comprehensive Evaluation of Trunk Response to Asymmetric Trunk Motion. Spine, 1992, 17, 318-326.	1.0	125
107	The quantification of EMG normalization error. Ergonomics, 1991, 34, 343-352.	1.1	179
108	Muscle activities during asymmetric trunk angular accelerations. Journal of Orthopaedic Research, 1990, 8, 824-832.	1.2	82

#	Article	IF	CITATIONS
109	Lumbar Motion Response to a Constant Load Velocity Lift. Human Factors, 1990, 32, 493-501.	2.1	8
110	The Effects of Preview and Task Symmetry on Trunk Muscle Response to Sudden Loading. Human Factors, 1989, 31, 101-115.	2.1	88
111	Effects of Fatigue on Muscle Groups under Dynamic Exertions. Proceedings of the Human Factors Society Annual Meeting, 1989, 33, 646-650.	0.1	0
112	The Effects of Asymmetry, Load Level, Start Position and Load Velocity on Lumbar Motion. Proceedings of the Human Factors Society Annual Meeting, 1988, 32, 700-704.	0.1	1