

Karl M Newell

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

2,714
citations

218677

26
h-index

223800

46
g-index

116
all docs

116
docs citations

116
times ranked

2096
citing authors

#	ARTICLE	IF	CITATIONS
1	Are Sub-Movements Induced Visually in Discrete Aiming Tasks?. Journal of Motor Behavior, 2022, 54, 173-185.	0.9	2
2	Instructions on Task Constraints Mediate Perceptual-Motor Search and How Movement Variability Relates to Performance Outcome. Journal of Motor Behavior, 2022, , 1-17.	0.9	0
3	Movement form of the overarm throw for children at 6, 10 and 14 years of age. European Journal of Sport Science, 2021, 21, 1254-1262.	2.7	4
4	Visual effort moderates postural cascade dynamics. Neuroscience Letters, 2021, 742, 135511.	2.1	14
5	Multifractal roots of suprapostural dexterity. Human Movement Science, 2021, 76, 102771.	1.4	16
6	Skill level and the free moment during a pistol aiming task. Sports Biomechanics, 2021, , 1-10.	1.6	0
7	Task and Informational Constraints on Search Strategies: Testing the Idea of Convergence to Tolerant Regions. Journal of Motor Behavior, 2021, , 1-16.	0.9	2
8	Exploration of the Specificity of Motor Skills Hypothesis in 7â€“8 Year Old Primary School Children: Exploring the Relationship Between 12 Different Motor Skills From Two Different Motor Competence Test Batteries. Frontiers in Psychology, 2021, 12, 631175.	2.1	9
9	Learning the High Bar Longswing:I. Task Dynamics and Emergence of the Coordination Pattern. Journal of Sports Sciences, 2021, 39, 2683-2697.	2.0	1
10	Attractor dynamics of elite performance: the high bar longswing. Sports Biomechanics, 2021, , 1-14.	1.6	3
11	Learning the high bar longswing:II. energetics and the emergence of the coordination pattern. Journal of Sports Sciences, 2021, 39, 2698-2705.	2.0	1
12	Atypical neural processing during the execution of complex sensorimotor behavior in autism. Behavioural Brain Research, 2021, 409, 113337.	2.2	2
13	Bidirectional causal control in the dynamics of handstand balance. Scientific Reports, 2021, 11, 405.	3.3	5
14	Establishing Task-Relevant MVC Protocols for Modelling Sustained Isometric Force Variability: A Manual Control Study. Journal of Functional Morphology and Kinesiology, 2021, 6, 94.	2.4	0
15	NCS Assessments of the Motor, Sensory, and Physical Health Domains. Frontiers in Pediatrics, 2021, 9, 622542.	1.9	0
16	Task and Skill Level Constraints on the Generality of the Proximalâ€“Distal Principle for Within-Limb Movement Coordination. Journal of Motor Learning and Development, 2021, , 1-20.	0.4	1
17	Teaching Childrenâ€™s Motor Skills for Team Games Through Guided Discovery: How Constraints Enhance Learning. Frontiers in Psychology, 2021, 12, 724848.	2.1	6
18	Multidimensional joint coupling: a case study visualisation approach to movement coordination and variability. Sports Biomechanics, 2020, 19, 322-332.	1.6	1

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19	Repetition Without Repetition: Challenges in Understanding Behavioral Flexibility in Motor Skill. <i>Frontiers in Psychology</i> , 2020, 11, 2018.	2.1	30
20	Collective Variables and Task Constraints in Movement Coordination, Control and Skill. <i>Journal of Motor Behavior</i> , 2020, 53, 1-27.	0.9	18
21	Center-of-pressure dynamics of upright standing as a function of sloped surfaces and vision. <i>Neuroscience Letters</i> , 2020, 737, 135334.	2.1	5
22	Search Strategies in Practice: Testing the Effect of Inherent Variability on Search Patterns. <i>Ecological Psychology</i> , 2020, 32, 115-138.	1.1	10
23	Assessing the Temporal Organization of Walking Variability: A Systematic Review and Consensus Guidelines on Detrended Fluctuation Analysis. <i>Frontiers in Physiology</i> , 2020, 11, 562.	2.8	27
24	Perceptual Learning of Tooling Affordances of a Jointed Object via Dynamic Touch. <i>Ecological Psychology</i> , 2019, 31, 14-29.	1.1	4
25	Cross-limb dynamics of postural tremor due to limb loading to fatigue: neural overflow but not coupling. <i>Journal of Neurophysiology</i> , 2019, 122, 572-584.	1.8	1
26	Search Strategies in the Perceptual-Motor Workspace and the Acquisition of Coordination, Control, and Skill. <i>Frontiers in Psychology</i> , 2019, 10, 1874.	2.1	60
27	Visual feedback during motor performance is associated with increased complexity and adaptability of motor and neural output. <i>Behavioural Brain Research</i> , 2019, 376, 112214.	2.2	19
28	The precision demands of viewing distance modulate postural coordination and control. <i>Human Movement Science</i> , 2019, 66, 425-439.	1.4	17
29	Mapping collective variable and synergy dynamics to task outcome in a perceptual-motor skill. <i>PLoS ONE</i> , 2019, 14, e0215460.	2.5	9
30	Postural coordination and control to the precision demands of light finger touch. <i>Experimental Brain Research</i> , 2019, 237, 1339-1346.	1.5	4
31	Task specificity and the timing of discrete aiming movements. <i>Human Movement Science</i> , 2019, 64, 240-251.	1.4	4
32	Recurrence dynamics reveals differential control strategies to maintain balance on sloped surfaces. <i>Gait and Posture</i> , 2019, 69, 169-175.	1.4	7
33	Intraindividual Variability of Neuromotor Function Predicts Falls Risk in Older Adults and those with Type 2 Diabetes. <i>Journal of Motor Behavior</i> , 2019, 51, 151-160.	0.9	4
34	Movement Speed and Accuracy in Space and Time: The Complementarity of Error Distributions. <i>Journal of Motor Behavior</i> , 2019, 51, 100-112.	0.9	4
35	Unifying practice schedules in the timescales of motor learning and performance. <i>Human Movement Science</i> , 2018, 59, 153-169.	1.4	22
36	Limit cycle dynamics of the gymnastics longswing. <i>Human Movement Science</i> , 2018, 57, 217-226.	1.4	9

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37	Transfer of a learned coordination function: Specific, individual and generalizable. <i>Human Movement Science</i> , 2018, 59, 66-80.	1.4	29
38	Skill level changes the coordination and variability of standing posture and movement in a pistol-aiming task. <i>Journal of Sports Sciences</i> , 2018, 36, 809-816.	2.0	21
39	Constraints specific influences of vision, touch and surface compliance in postural dynamics. <i>Gait and Posture</i> , 2018, 59, 117-121.	1.4	15
40	Temperature influences perception of the length of a wielded object via effortful touch. <i>Experimental Brain Research</i> , 2018, 236, 505-516.	1.5	9
41	Search strategies in practice: Influence of information and task constraints. <i>Acta Psychologica</i> , 2018, 182, 9-20.	1.5	18
42	Learning a specific, individual and generalizable coordination function: evaluating the variability of practice hypothesis in motor learning. <i>Experimental Brain Research</i> , 2018, 236, 3307-3318.	1.5	24
43	Qualitative and quantitative change in the kinematics of learning a non-dominant overarm throw. <i>Human Movement Science</i> , 2018, 62, 134-142.	1.4	5
44	Location of a grasped object's effector influences perception of the length of that object via dynamic touch. <i>Experimental Brain Research</i> , 2018, 236, 2107-2121.	1.5	2
45	Scaling oscillatory platform frequency reveals recurrence of intermittent postural attractor states. <i>Scientific Reports</i> , 2018, 8, 11580.	3.3	8
46	Physical Growth, Body Scale, and Perceptual-Motor Development. <i>Advances in Child Development and Behavior</i> , 2018, 55, 205-243.	1.3	43
47	Movement rehabilitation: are the principles of re-learning in the recovery of function the same as those of original learning?. <i>Disability and Rehabilitation</i> , 2017, 39, 121-126.	1.8	14
48	Vestibulo-ocular reflex function in children with high-functioning autism spectrum disorders. <i>Autism Research</i> , 2017, 10, 251-266.	3.8	20
49	Transitions of postural coordination as a function of frequency of the moving support platform. <i>Human Movement Science</i> , 2017, 52, 24-35.	1.4	11
50	Physiological tremor (8-12Hz component) in isometric force control. <i>Neuroscience Letters</i> , 2017, 641, 87-93.	2.1	25
51	Differences in postural tremor dynamics with age and neurological disease. <i>Experimental Brain Research</i> , 2017, 235, 1719-1729.	1.5	11
52	Search Strategies in Practice: Movement Variability Affords Perception of Task Dynamics. <i>Ecological Psychology</i> , 2017, 29, 243-258.	1.1	23
53	Stone-Tool Use in Wild Monkeys: Implications for the Study of the Body-Plus-Tool System. <i>Ecological Psychology</i> , 2017, 29, 300-316.	1.1	5
54	Skill level constrains the coordination of posture and upper-limb movement in a pistol-aiming task. <i>Human Movement Science</i> , 2017, 55, 255-263.	1.4	17

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55	Perception of the length of an object through dynamic touch is invariant across changes in the medium. <i>Attention, Perception, and Psychophysics</i> , 2017, 79, 2499-2509.	1.3	13
56	Real-time visual feedback of COM and COP motion properties differentially modifies postural control structures. <i>Experimental Brain Research</i> , 2017, 235, 109-120.	1.5	8
57	A test of fixed and moving reference point control in posture. <i>Gait and Posture</i> , 2017, 51, 52-57.	1.4	3
58	Intra-individual gait patterns across different time-scales as revealed by means of a supervised learning model using kernel-based discriminant regression. <i>PLoS ONE</i> , 2017, 12, e0179738.	2.5	29
59	Adapting relative phase of bimanual isometric force coordination through scaling visual information intermittency. <i>Human Movement Science</i> , 2016, 47, 186-196.	1.4	10
60	Maintenance of postural stability as a function of tilted base of support. <i>Human Movement Science</i> , 2016, 48, 91-101.	1.4	13
61	Bimanual coordination and the intermittency of visual information in isometric force tracking. <i>Experimental Brain Research</i> , 2016, 234, 2025-2034.	1.5	11
62	Augmented feedback of COM and COP modulates the regulation of quiet human standing relative to the stability boundary. <i>Gait and Posture</i> , 2016, 47, 18-23.	1.4	15
63	Coordination and control of posture and ball release in basketball free-throw shooting. <i>Human Movement Science</i> , 2016, 49, 216-224.	1.4	34
64	Aging and the complexity of center of pressure in static and dynamic postural tasks. <i>Neuroscience Letters</i> , 2016, 610, 104-109.	2.1	37
65	Force-Time Entropy of Isometric Impulse. <i>Journal of Motor Behavior</i> , 2016, 48, 227-239.	0.9	2
66	Coordination as a function of skill level in the gymnastics longswing. <i>Journal of Sports Sciences</i> , 2016, 34, 429-439.	2.0	25
67	Compensatory mechanisms of balance to the scaling of arm-swing frequency. <i>Journal of Biomechanics</i> , 2015, 48, 3825-3829.	2.1	3
68	Models of Postural Control: Shared Variance in Joint and COM Motions. <i>PLoS ONE</i> , 2015, 10, e0126379.	2.5	49
69	S-Shaped motor learning and nonequilibrium phase transitions.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2015, 41, 403-414.	0.9	13
70	Entropy of space-time outcome in a movement speed-accuracy task. <i>Human Movement Science</i> , 2015, 44, 201-210.	1.4	13
71	Selective visual scaling of time-scale processes facilitates broadband learning of isometric force frequency tracking. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 2507-2518.	1.3	1
72	Transfer as a function of exploration and stabilization in original practice. <i>Human Movement Science</i> , 2015, 44, 258-269.	1.4	35

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73	Modulation of cortical activity in 2D versus 3D virtual reality environments: An EEG study. <i>International Journal of Psychophysiology</i> , 2015, 95, 254-260.	1.0	136
74	Postural Instability Detection: Aging and the Complexity of Spatial-Temporal Distributional Patterns for Virtually Contacting the Stability Boundary in Human Stance. <i>PLoS ONE</i> , 2014, 9, e108905.	2.5	28
75	Differential time scales of change to learning frequency structures of isometric force tracking.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2014, 40, 1629-1640.	0.9	5
76	Practice and transfer of the frequency structures of continuous isometric force. <i>Human Movement Science</i> , 2014, 34, 28-40.	1.4	1
77	Individuality of movements in music – Finger and body movements during playing of the flute. <i>Human Movement Science</i> , 2014, 35, 131-144.	1.4	20
78	Transition of COM – COP relative phase in a dynamic balance task. <i>Human Movement Science</i> , 2014, 38, 1-14.	1.4	23
79	Inter-foot coordination dynamics of quiet standing postures. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 47, 194-202.	6.1	22
80	Aging and the recovery of postural stability from taking a step. <i>Gait and Posture</i> , 2014, 40, 701-706.	1.4	14
81	Visual information and multi-joint coordination patterns in one-leg stance. <i>Gait and Posture</i> , 2014, 39, 909-914.	1.4	27
82	Load-induced changes in older individual's hand-finger tremor are ameliorated with targeting. <i>Journal of the Neurological Sciences</i> , 2014, 339, 69-74.	0.6	1
83	The Degrees of Freedom Problem in Human Standing Posture: Collective and Component Dynamics. <i>PLoS ONE</i> , 2014, 9, e85414.	2.5	29
84	Landscape Dynamics of Motor Learning and Development. <i>Critical Reviews in Biomedical Engineering</i> , 2012, 40, 519-534.	0.9	5
85	Physical Education of and Through Fitness and Skill. <i>Quest</i> , 2011, 63, 46-54.	1.2	7
86	Adaptation and learning: Characteristic time scales of performance dynamics. <i>Human Movement Science</i> , 2009, 28, 655-687.	1.4	53
87	Aging, time scales, and sensorimotor variability.. <i>Psychology and Aging</i> , 2009, 24, 809-818.	1.6	35
88	Some Contemporary Issues in Motor Learning. <i>Advances in Experimental Medicine and Biology</i> , 2009, 629, 395-404.	1.6	14
89	Time Scales, Difficulty/Skill Duality, and the Dynamics of Motor Learning. <i>Advances in Experimental Medicine and Biology</i> , 2009, 629, 457-476.	1.6	14
90	Kinesiology: Challenges of Multiple Agendas. <i>Quest</i> , 2007, 59, 5-24.	1.2	44

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91	A Nonlinear System Model of Isometric Force. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
92	Schema Theory (1975): Retrospectives and Prospectives. Research Quarterly for Exercise and Sport, 2003, 74, 383-388.	1.4	32
93	MODELING THE CONTROL OF ISOMETRIC FORCE PRODUCTION WITH PIECE-WISE LINEAR, STOCHASTIC MAPS OF MULTIPLE TIME-SCALES. Fluctuation and Noise Letters, 2003, 03, L23-L29.	1.5	16
94	Task goals and change in dynamical degrees of freedom with motor learning.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 379-387.	0.9	84
95	Further Evidence on the Dynamics of Self-Injurious Behaviors: Impact Forces and Limb Motions. American Journal on Intellectual and Developmental Disabilities, 2002, 107, 60.	2.4	24
96	Onset of Dyskinesia and Changes in Postural Task Performance During the Course of Neuroleptic Withdrawal. American Journal on Intellectual and Developmental Disabilities, 2002, 107, 270.	2.4	8
97	Intermittency in the visual control of force in Parkinson's disease. Experimental Brain Research, 2001, 138, 118-127.	1.5	94
98	Dimensional change in motor learning. Human Movement Science, 2001, 20, 695-715.	1.4	226
99	Body-scaled transitions in human grip configurations.. Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 1657-1668.	0.9	46
100	Body scaling of grip configurations in children aged 6-12 years. , 2000, 36, 301-310.		24
101	Force and Timing Variability in Rhythmic Unimanual Tapping. Journal of Motor Behavior, 2000, 32, 249-267.	0.9	52
102	On Learning to Move Randomly. Journal of Motor Behavior, 2000, 32, 314-320.	0.9	14
103	Coordination of Grip Configurations as a Function of Force Output. Journal of Motor Behavior, 2000, 32, 73-82.	0.9	29
104	The scaling of human grip configurations.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 927-935.	0.9	78
105	Noise, information transmission, and force variability.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 837-851.	0.9	258
106	Motor redundancy during maximal voluntary contraction in four-finger tasks. Experimental Brain Research, 1998, 122, 71-78.	1.5	107
107	Movement Science: Therapeutic Intervention as a Constraint in Learning and Relearning Movement Skills. Scandinavian Journal of Occupational Therapy, 1998, 5, 51-57.	1.7	41
108	Is Variability in Human Performance a Reflection of System Noise?. Current Directions in Psychological Science, 1998, 7, 170-177.	5.3	126

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109	The Sequential Structure of Movement Outcome in Learning a Discrete Timing Task. <i>Journal of Motor Behavior</i> , 1997, 29, 366-382.	0.9	18
110	Modeling movement variability in space and time. <i>Behavioral and Brain Sciences</i> , 1997, 20, 322-322.	0.7	0
111	Frames of reference and normal movement. <i>Behavioral and Brain Sciences</i> , 1996, 19, 83-84.	0.7	3