

# Robert A Scheidt

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,636  
citations

279798

23  
h-index

206112

48  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistence of Motor Adaptation During Constrained, Multi-Joint, Arm Movements. <i>Journal of Neurophysiology</i> , 2000, 84, 853-862.	1.8	361
2	Learning to Move Amid Uncertainty. <i>Journal of Neurophysiology</i> , 2001, 86, 971-985.	1.8	361
3	Interaction of Visual and Proprioceptive Feedback During Adaptation of Human Reaching Movements. <i>Journal of Neurophysiology</i> , 2005, 93, 3200-3213.	1.8	192
4	Impedance Control and Internal Model Formation When Reaching in a Randomly Varying Dynamical Environment. <i>Journal of Neurophysiology</i> , 2001, 86, 1047-1051.	1.8	175
5	Separate Adaptive Mechanisms for Controlling Trajectory and Final Position in Reaching. <i>Journal of Neurophysiology</i> , 2007, 98, 3600-3613.	1.8	132
6	A physiologically based clinical measure for spastic reflexes in spinal cord injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 52-59.	0.9	118
7	Remapping Hand Movements in a Novel Geometrical Environment. <i>Journal of Neurophysiology</i> , 2005, 94, 4362-4372.	1.8	115
8	Reach Adaptation and Final Position Control Amid Environmental Uncertainty After Stroke. <i>Journal of Neurophysiology</i> , 2007, 97, 2824-2836.	1.8	91
9	Different Learned Coordinate Frames for Planning Trajectories and Final Positions in Reaching. <i>Journal of Neurophysiology</i> , 2007, 98, 3614-3626.	1.8	70
10	Visuomotor Learning Enhanced by Augmenting Instantaneous Trajectory Error Feedback during Reaching. <i>PLoS ONE</i> , 2013, 8, e46466.	2.5	68
11	Reorganization of Finger Coordination Patterns During Adaptation to Rotation and Scaling of a Newly Learned Sensorimotor Transformation. <i>Journal of Neurophysiology</i> , 2011, 105, 454-473.	1.8	57
12	Learning Redundant Motor Tasks with and without Overlapping Dimensions: Facilitation and Interference Effects. <i>Journal of Neuroscience</i> , 2014, 34, 8289-8299.	3.6	52
13	Effects of Wrist Tendon Vibration on Targeted Upper-Arm Movements in Poststroke Hemiparesis. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 61-70.	2.9	46
14	Neural and Electromyographic Correlates of Wrist Posture Control. <i>Journal of Neurophysiology</i> , 2007, 97, 1527-1545.	1.8	42
15	A robotic test of proprioception within the hemiparetic arm post-stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 77.	4.6	42
16	Contributions of Online Visual Feedback to the Learning and Generalization of Novel Finger Coordination Patterns. <i>Journal of Neurophysiology</i> , 2008, 99, 2546-2557.	1.8	39
17	Electroencephalogram Coherence in Children With and Without Autism Spectrum Disorders: Decreased Interhemispheric Connectivity in Autism. <i>Autism Research</i> , 2014, 7, 334-343.	3.8	38
18	Remembering forward: Neural correlates of memory and prediction in human motor adaptation. <i>NeuroImage</i> , 2012, 59, 582-600.	4.2	35

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19	Supplemental vibrotactile feedback control of stabilization and reaching actions of the arm using limb state and position error encodings. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 36.	4.6	35
20	Effects of wrist tendon vibration on arm tracking in people poststroke. <i>Journal of Neurophysiology</i> , 2011, 106, 1480-1488.	1.8	32
21	Brief Report: Visuo-spatial Guidance of Movement during Gesture Imitation and Mirror Drawing in Children with Autism Spectrum Disorders. <i>Journal of Autism and Developmental Disorders</i> , 2013, 43, 985-995.	2.7	31
22	Sensory motor remapping of space in human-machine interfaces. <i>Progress in Brain Research</i> , 2011, 191, 45-64.	1.4	28
23	Elastic, Viscous, and Mass Load Effects on Poststroke Muscle Recruitment and Co-contraction During Reaching: A Pilot Study. <i>Physical Therapy</i> , 2009, 89, 665-678.	2.4	27
24	Control Strategies for the Transition From Multijoint to Single-Joint Arm Movements Studied Using a Simple Mechanical Constraint. <i>Journal of Neurophysiology</i> , 2000, 83, 1-12.	1.8	23
25	Design and validation of a MR-compatible pneumatic manipulandum. <i>Journal of Neuroscience Methods</i> , 2007, 163, 255-266.	2.5	23
26	Patterns of hypermetria and terminal cocontraction during point-to-point movements demonstrate independent action of trajectory and postural controllers. <i>Journal of Neurophysiology</i> , 2011, 106, 2368-2382.	1.8	23
27	Spatial and temporal influences on discrimination of vibrotactile stimuli on the arm. <i>Experimental Brain Research</i> , 2019, 237, 2075-2086.	1.5	23
28	Visual, motor and attentional influences on proprioceptive contributions to perception of hand path rectilinearity during reaching. <i>Experimental Brain Research</i> , 2010, 204, 239-254.	1.5	22
29	Visuo-proprioceptive interactions during adaptation of the human reach. <i>Journal of Neurophysiology</i> , 2014, 111, 868-887.	1.8	21
30	Tactile proprioceptive input in robotic rehabilitation after stroke. , 2015, , .		21
31	Computerized biofeedback knee goniometer: acceptance and effect on exercise behavior in post-total knee arthroplasty rehabilitation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 1026-1030.	0.9	19
32	Inter-Joint Coordination Deficits Revealed in the Decomposition of Endpoint Jerk During Goal-Directed Arm Movement After Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 798-810.	4.9	18
33	A Real-Time Haptic/Graphic Demonstration of how Error Augmentation can Enhance Learning. , 0, , .		17
34	Supplemental vibrotactile feedback of real-time limb position enhances precision of goal-directed reaching. <i>Journal of Neurophysiology</i> , 2019, 122, 22-38.	1.8	17
35	Somatosensory deafferentation reveals lateralized roles of proprioception in feedback and adaptive feedforward control of movement and posture. <i>Current Opinion in Physiology</i> , 2021, 19, 141-147.	1.8	17
36	Effect of Tendon Vibration on Hemiparetic Arm Stability in Unstable Workspaces. <i>PLoS ONE</i> , 2015, 10, e0144377.	2.5	17

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37	Augmenting sensorimotor control using "goal-aware" vibrotactile stimulation during reaching and manipulation behaviors. <i>Experimental Brain Research</i> , 2016, 234, 2403-2414.	1.5	16
38	A quantitative and standardized robotic method for the evaluation of arm proprioception after stroke. , 2011, 2011, 8227-30.		15
39	Tactile-STAR: A Novel Tactile Stimulator And Recorder System for Evaluating and Improving Tactile Perception. <i>Frontiers in Neurobotics</i> , 2018, 12, 12.	2.8	14
40	Optimal Schedules in Multitask Motor Learning. <i>Neural Computation</i> , 2016, 28, 667-685.	2.2	13
41	The neural foundations of handedness: insights from a rare case of deafferentation. <i>Journal of Neurophysiology</i> , 2020, 124, 259-267.	1.8	13
42	Dataglove measurement of joint angles in sign language handshapes. <i>Sign Language and Linguistics (Online)</i> , 2012, 15, 39-72.	0.5	12
43	Vibration Propagation on the Skin of the Arm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4329.	2.5	12
44	Intention tremor and deficits of sensory feedback control in multiple sclerosis: a pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 170.	4.6	11
45	The Arm Movement Detection (AMD) test: a fast robotic test of proprioceptive acuity in the arm. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 64.	4.6	8
46	Effect of Dual Tasking on Vibrotactile Feedback Guided Reaching " A Pilot Study. <i>Lecture Notes in Computer Science</i> , 2018, 10893, 3-14.	1.3	8
47	Organizing and Reorganizing Coordination Patterns. <i>Advances in Experimental Medicine and Biology</i> , 2016, 957, 327-349.	1.6	7
48	A two alternative forced choice method for assessing vibrotactile discrimination thresholds in the lower limb. <i>Somatosensory &amp; Motor Research</i> , 2019, 36, 162-170.	0.9	6
49	Visual and proprioceptive contributions to compensatory and pursuit tracking movements in humans. , 2011, 2011, 7356-9.		5
50	Effect of Short-Term Exposure to Supplemental Vibrotactile Kinesthetic Feedback on Goal-Directed Movements after Stroke: A Proof of Concept Case Series. <i>Sensors</i> , 2021, 21, 1519.	3.8	4
51	The arm motion detection (AMD) test. , 2014, 2014, 5349-52.		3
52	Contributions of implicit and explicit memories to sensorimotor adaptation of movement extent during goal-directed reaching. <i>Experimental Brain Research</i> , 2021, 239, 2445-2459.	1.5	3
53	Neural Control of Stopping and Stabilizing the Arm. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, 835852.	2.1	3
54	Neural Correlates of Multisensory Integration for Feedback Stabilization of the Wrist. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, .	2.1	3

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55	Temporal and spatial aspects of sensory interactions during human fusional response. <i>Vision Research</i> , 1993, 33, 1259-1270.	1.4	2
56	Vibrotactile Perception for Sensorimotor Augmentation: Perceptual Discrimination of Vibrotactile Stimuli Induced by Low-Cost Eccentric Rotating Mass Motors at Different Body Locations in Young, Middle-Aged, and Older Adults. <i>Frontiers in Rehabilitation Sciences</i> , 0, 3, .	1.2	2
57	Age-related differentiation of sensorimotor control strategies during pursuit and compensatory tracking. , 2014, 2014, 3562-5.		1
58	Robotic techniques for the assessment of proprioceptive deficits and for proprioceptive training. , 2018, , 289-303.		1
59	Feedback Regulation of Limb Position Characterized Using FMRI. , 0, , .		0
60	Limb stabilization in older adults and chronic stroke survivors: A pilot study. , 2017, , .		0