

# John W Krakauer

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

22,714  
citations

14614

66  
h-index

28224

105  
g-index

126  
all docs

126  
docs citations

126  
times ranked

14049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-induced intracranial vasculitis on high-resolution vessel wall MRI. <i>Journal of Neurology</i> , 2022, 269, 483-485.	1.8	3
2	Answer ALS, a large-scale resource for sporadic and familial ALS combining clinical and multi-omics data from induced pluripotent cell lines. <i>Nature Neuroscience</i> , 2022, 25, 226-237.	7.1	66
3	Competition between parallel sensorimotor learning systems. <i>ELife</i> , 2022, 11, .	2.8	44
4	No evidence for motor-recovery-related cortical connectivity changes after stroke using resting-state fMRI. <i>Journal of Neurophysiology</i> , 2022, 127, 637-650.	0.9	5
5	The relationship between habits and motor skills in humans. <i>Trends in Cognitive Sciences</i> , 2022, 26, 371-387.	4.0	29
6	The explicit/implicit distinction in studies of visuomotor learning: Conceptual and methodological pitfalls. <i>European Journal of Neuroscience</i> , 2021, 53, 499-503.	1.2	24
7	Did We Get Sensorimotor Adaptation Wrong? Implicit Adaptation as Direct Policy Updating Rather than Forward-Model-Based Learning. <i>Journal of Neuroscience</i> , 2021, 41, 2747-2761.	1.7	50
8	The Neurocene: essays at the interface of neuroscience and the world. <i>Journal of Neurophysiology</i> , 2021, 125, 522-522.	0.9	0
9	Two views on the cognitive brain. <i>Nature Reviews Neuroscience</i> , 2021, 22, 359-371.	4.9	92
10	The Learning Salon: Toward a new participatory science. <i>Neuron</i> , 2021, 109, 3036-3040.	3.8	1
11	The continued need for scientific monographs: an appreciation of John Rothwell's "Control of human voluntary movement". <i>Experimental Brain Research</i> , 2020, 238, 1715-1717.	0.7	0
12	Postural control of arm and fingers through integration of movement commands. <i>ELife</i> , 2020, 9, .	2.8	34
13	Practice induces a qualitative change in the memory representation for visuomotor learning. <i>Journal of Neurophysiology</i> , 2019, 122, 1050-1059.	0.9	58
14	Why Are Sequence Representations in Primary Motor Cortex So Elusive?. <i>Neuron</i> , 2019, 103, 956-958.	3.8	24
15	Can patients with cerebellar disease switch learning mechanisms to reduce their adaptation deficits?. <i>Brain</i> , 2019, 142, 662-673.	3.7	48
16	The intelligent reflex. <i>Philosophical Psychology</i> , 2019, 32, 822-830.	0.5	13
17	Differential Poststroke Motor Recovery in an Arm Versus Hand Muscle in the Absence of Motor Evoked Potentials. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 568-580.	1.4	32
18	Motor Learning. , 2019, 9, 613-663.		393

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19	Rethinking interhemispheric imbalance as a target for stroke neurorehabilitation. <i>Annals of Neurology</i> , 2019, 85, 502-513.	2.8	85
20	Time-dependent competition between goal-directed and habitual response preparation. <i>Nature Human Behaviour</i> , 2019, 3, 1252-1262.	6.2	107
21	Reply: Further evidence for a non-cortical origin of mirror movements after stroke. <i>Brain</i> , 2019, 142, e2-e2.	3.7	0
22	The multiple effects of practice: skill, habit and reduced cognitive load. <i>Current Opinion in Behavioral Sciences</i> , 2018, 20, 196-201.	2.0	102
23	Evidence for a subcortical origin of mirror movements after stroke: a longitudinal study. <i>Brain</i> , 2018, 141, 837-847.	3.7	47
24	Modeling Motor Learning Using Heteroscedastic Functional Principal Components Analysis. <i>Journal of the American Statistical Association</i> , 2018, 113, 1003-1015.	1.8	14
25	A non-task-oriented approach based on high-dose playful movement exploration for rehabilitation of the upper limb early after stroke: A proposal. <i>NeuroRehabilitation</i> , 2018, 43, 31-40.	0.5	33
26	Neuroscience Needs Behavior: Correcting a Reductionist Bias. <i>Neuron</i> , 2017, 93, 480-490.	3.8	953
27	Separable systems for recovery of finger strength and control after stroke. <i>Journal of Neurophysiology</i> , 2017, 118, 1151-1163.	0.9	94
28	A Short and Distinct Time Window for Recovery of Arm Motor Control Early After Stroke Revealed With a Global Measure of Trajectory Kinematics. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 552-560.	1.4	82
29	Standardized Measurement of Sensorimotor Recovery in Stroke Trials: Consensus-Based Core Recommendations from the Stroke Recovery and Rehabilitation Roundtable. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 784-792.	1.4	135
30	Agreed Definitions and a Shared Vision for New Standards in Stroke Recovery Research: The Stroke Recovery and Rehabilitation Roundtable Taskforce. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 793-799.	1.4	225
31	Agreed definitions and a shared vision for new standards in stroke recovery research: The Stroke Recovery and Rehabilitation Roundtable taskforce. <i>International Journal of Stroke</i> , 2017, 12, 444-450.	2.9	624
32	Standardized measurement of sensorimotor recovery in stroke trials: Consensus-based core recommendations from the Stroke Recovery and Rehabilitation Roundtable. <i>International Journal of Stroke</i> , 2017, 12, 451-461.	2.9	352
33	The cerebellum does more than sensory prediction error-based learning in sensorimotor adaptation tasks. <i>Journal of Neurophysiology</i> , 2017, 118, 1622-1636.	0.9	91
34	Motor Learning in Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 178-189.	1.4	53
35	In search of the golden skill. <i>Progress in Brain Research</i> , 2017, 232, 145-148.	0.9	2
36	Reaction times can reflect habits rather than computations. <i>ELife</i> , 2017, 6, .	2.8	45

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37	Computational neurorehabilitation: modeling plasticity and learning to predict recovery. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 42.	2.4	125
38	A motor planning stage represents the shape of upcoming movement trajectories. <i>Journal of Neurophysiology</i> , 2016, 116, 296-305.	0.9	33
39	The basal ganglia: from motor commands to the control of vigor. <i>Current Opinion in Neurobiology</i> , 2016, 37, 158-166.	2.0	203
40	Independence of Movement Preparation and Movement Initiation. <i>Journal of Neuroscience</i> , 2016, 36, 3007-3015.	1.7	173
41	Paradoxical Motor Recovery From a First Stroke After Induction of a Second Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 794-800.	1.4	69
42	Explicit knowledge enhances motor vigor and performance: motivation versus practice in sequence tasks. <i>Journal of Neurophysiology</i> , 2015, 114, 219-232.	0.9	57
43	The reliability of repeated TMS measures in older adults and in patients with subacute and chronic stroke. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 335.	1.8	104
44	On tests of activation map dimensionality for fMRI-based studies of learning. <i>Frontiers in Neuroscience</i> , 2015, 9, 85.	1.4	1
45	The uses and interpretations of the motor-evoked potential for understanding behaviour. <i>Experimental Brain Research</i> , 2015, 233, 679-689.	0.7	260
46	Persistent Residual Errors in Motor Adaptation Tasks: Reversion to Baseline and Exploratory Escape. <i>Journal of Neuroscience</i> , 2015, 35, 6969-6977.	1.7	66
47	The Influence of Movement Preparation Time on the Expression of Visuomotor Learning and Savings. <i>Journal of Neuroscience</i> , 2015, 35, 5109-5117.	1.7	199
48	Hedging Your Bets: Intermediate Movements as Optimal Behavior in the Context of an Incomplete Decision. <i>PLoS Computational Biology</i> , 2015, 11, e1004171.	1.5	64
49	Dual-process decomposition in human sensorimotor adaptation. <i>Current Opinion in Neurobiology</i> , 2015, 33, 71-77.	2.0	134
50	Robotic therapy for chronic stroke: general recovery of impairment or improved task-specific skill?. <i>Journal of Neurophysiology</i> , 2015, 114, 1885-1894.	0.9	47
51	Formation of a long-term memory for visuomotor adaptation following only a few trials of practice. <i>Journal of Neurophysiology</i> , 2015, 114, 969-977.	0.9	95
52	Fluoxetine Maintains a State of Heightened Responsiveness to Motor Training Early After Stroke in a Mouse Model. <i>Stroke</i> , 2015, 46, 2951-2960.	1.0	75
53	Motor Planning. <i>Neuroscientist</i> , 2015, 21, 385-398.	2.6	181
54	Recent insights into perceptual and motor skill learning. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 683.	1.0	11

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55	Explicit and Implicit Contributions to Learning in a Sensorimotor Adaptation Task. <i>Journal of Neuroscience</i> , 2014, 34, 3023-3032.	1.7	606
56	The Future of Stroke Treatment. <i>JAMA Neurology</i> , 2014, 71, 1473.	4.5	6
57	A Comparison of Two Methods for MRI Classification of At-Risk Tissue and Core Infarction. <i>Frontiers in Neurology</i> , 2014, 5, 155.	1.1	3
58	The neural correlates of learned motor acuity. <i>Journal of Neurophysiology</i> , 2014, 112, 971-980.	0.9	58
59	Pretreatment Blood-Brain Barrier Damage and Post-Treatment Intracranial Hemorrhage in Patients Receiving Intravenous Tissue-Type Plasminogen Activator. <i>Stroke</i> , 2014, 45, 2030-2035.	1.0	73
60	Motor Learning: The Great Rate Debate. <i>Current Biology</i> , 2014, 24, R386-R388.	1.8	9
61	Motor learning principles for neurorehabilitation. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2013, 110, 93-103.	1.0	255
62	Model-Based and Model-Free Mechanisms of Human Motor Learning. <i>Advances in Experimental Medicine and Biology</i> , 2013, 782, 1-21.	0.8	194
63	Two Distinct Ipsilateral Cortical Representations for Individuated Finger Movements. <i>Cerebral Cortex</i> , 2013, 23, 1362-1377.	1.6	155
64	Improvement After Constraint-Induced Movement Therapy. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 99-109.	1.4	144
65	Medial Premotor Cortex Shows a Reduction in Inhibitory Markers and Mediates Recovery in a Mouse Model of Focal Stroke. <i>Stroke</i> , 2013, 44, 483-489.	1.0	81
66	Unlearning versus savings in visuomotor adaptation: comparing effects of washout, passage of time, and removal of errors on motor memory. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 307.	1.0	95
67	Motor skill depends on knowledge of facts. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 503.	1.0	122
68	How is a motor skill learned? Change and invariance at the levels of task success and trajectory control. <i>Journal of Neurophysiology</i> , 2012, 108, 578-594.	0.9	347
69	Overcoming Motor "Forgetting" Through Reinforcement Of Learned Actions. <i>Journal of Neuroscience</i> , 2012, 32, 14617-14621a.	1.7	166
70	Generalization and Multirate Models of Motor Adaptation. <i>Neural Computation</i> , 2012, 24, 939-966.	1.3	41
71	Getting Neurorehabilitation Right. <i>Neurorehabilitation and Neural Repair</i> , 2012, 26, 923-931.	1.4	473
72	Rethinking Motor Learning and Savings in Adaptation Paradigms: Model-Free Memory for Successful Actions Combines with Internal Models. <i>Neuron</i> , 2011, 70, 787-801.	3.8	400

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73	Are We Ready for a Natural History of Motor Learning?. <i>Neuron</i> , 2011, 72, 469-476.	3.8	154
74	Human sensorimotor learning: adaptation, skill, and beyond. <i>Current Opinion in Neurobiology</i> , 2011, 21, 636-644.	2.0	425
75	Probing for hemispheric specialization for motor skill learning: a transcranial direct current stimulation study. <i>Journal of Neurophysiology</i> , 2011, 106, 652-661.	0.9	127
76	Prediction of Motor Recovery Using Initial Impairment and fMRI 48 h Poststroke. <i>Cerebral Cortex</i> , 2011, 21, 2712-2721.	1.6	122
77	Compensatory Motor Control After Stroke: An Alternative Joint Strategy for Object-Dependent Shaping of Hand Posture. <i>Journal of Neurophysiology</i> , 2010, 103, 3034-3043.	0.9	84
78	Learning Not to Generalize: Modular Adaptation of Visuomotor Gain. <i>Journal of Neurophysiology</i> , 2010, 103, 2938-2952.	0.9	39
79	Improvement in Aphasia Scores After Stroke Is Well Predicted by Initial Severity. <i>Stroke</i> , 2010, 41, 1485-1488.	1.0	251
80	Error Correction, Sensory Prediction, and Adaptation in Motor Control. <i>Annual Review of Neuroscience</i> , 2010, 33, 89-108.	5.0	1,435
81	Adaptation to Visuomotor Rotation Through Interaction Between Posterior Parietal and Motor Cortical Areas. <i>Journal of Neurophysiology</i> , 2009, 102, 2921-2932.	0.9	145
82	Noninvasive cortical stimulation enhances motor skill acquisition over multiple days through an effect on consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1590-1595.	3.3	1,168
83	Motor Learning and Consolidation: The Case of Visuomotor Rotation. <i>Advances in Experimental Medicine and Biology</i> , 2009, 629, 405-421.	0.8	240
84	Inside the brain of an elite athlete: the neural processes that support high achievement in sports. <i>Nature Reviews Neuroscience</i> , 2009, 10, 585-596.	4.9	426
85	Learning of a Sequential Motor Skill Comprises Explicit and Implicit Components That Consolidate Differently. <i>Journal of Neurophysiology</i> , 2009, 101, 2218-2229.	0.9	119
86	A computational neuroanatomy for motor control. <i>Experimental Brain Research</i> , 2008, 185, 359-381.	0.7	983
87	Consensus: Can transcranial direct current stimulation and transcranial magnetic stimulation enhance motor learning and memory formation?. <i>Brain Stimulation</i> , 2008, 1, 363-369.	0.7	225
88	Inter-individual Variability in the Capacity for Motor Recovery After Ischemic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 64-71.	1.4	432
89	Explaining Savings for Visuomotor Adaptation: Linear Time-Invariant State-Space Models Are Not Sufficient. <i>Journal of Neurophysiology</i> , 2008, 100, 2537-2548.	0.9	125
90	Why Don't We Move Faster? Parkinson's Disease, Movement Vigor, and Implicit Motivation. <i>Journal of Neuroscience</i> , 2007, 27, 7105-7116.	1.7	488

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91	Towards a computational neuropsychology of action. <i>Progress in Brain Research</i> , 2007, 165, 383-394.	0.9	24
92	Sensory Prediction Errors Drive Cerebellum-Dependent Adaptation of Reaching. <i>Journal of Neurophysiology</i> , 2007, 98, 54-62.	0.9	749
93	Avoiding performance and task confounds: Multimodal investigation of brain reorganization after stroke rehabilitation. <i>Experimental Neurology</i> , 2007, 204, 491-495.	2.0	18
94	An Implicit Plan Overrides an Explicit Strategy during Visuomotor Adaptation. <i>Journal of Neuroscience</i> , 2006, 26, 3642-3645.	1.7	692
95	Consolidation of motor memory. <i>Trends in Neurosciences</i> , 2006, 29, 58-64.	4.2	393
96	Patterns of Impairment in Digit Independence After Subcortical Stroke. <i>Journal of Neurophysiology</i> , 2006, 95, 369-378.	0.9	72
97	An Optimization Principle for Determining Movement Duration. <i>Journal of Neurophysiology</i> , 2006, 95, 3875-3886.	0.9	119
98	Motor learning: its relevance to stroke recovery and neurorehabilitation. <i>Current Opinion in Neurology</i> , 2006, 19, 84-90.	1.8	948
99	Impaired anticipatory control of fingertip forces in patients with a pure motor or sensorimotor lacunar syndrome. <i>Brain</i> , 2006, 129, 1415-1425.	3.7	106
100	Generalization of Motor Learning Depends on the History of Prior Action. <i>PLoS Biology</i> , 2006, 4, e316.	2.6	186
101	A New Approach to Spatial Covariance Modeling of Functional Brain Imaging Data: Ordinal Trend Analysis. <i>Neural Computation</i> , 2005, 17, 1602-1645.	1.3	109
102	Arm Function after Stroke: From Physiology to Recovery. <i>Seminars in Neurology</i> , 2005, 25, 384-395.	0.5	166
103	Adaptation to Visuomotor Transformations: Consolidation, Interference, and Forgetting. <i>Journal of Neuroscience</i> , 2005, 25, 473-478.	1.7	416
104	Functional imaging of motor recovery after stroke: Remaining challenges. <i>Current Neurology and Neuroscience Reports</i> , 2004, 4, 42-46.	2.0	21
105	Differential Cortical and Subcortical Activations in Learning Rotations and Gains for Reaching: A PET Study. <i>Journal of Neurophysiology</i> , 2004, 91, 924-933.	0.9	215
106	Learning of Visuomotor Transformations for Vectorial Planning of Reaching Trajectories. <i>Journal of Neuroscience</i> , 2000, 20, 8916-8924.	1.7	746
107	Evolution of Cortical Activation During Recovery From Corticospinal Tract Infarction. <i>Stroke</i> , 2000, 31, 656-661.	1.0	580
108	Independent learning of internal models for kinematic and dynamic control of reaching. <i>Nature Neuroscience</i> , 1999, 2, 1026-1031.	7.1	774

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109	Learning of scaling factors and reference axes for reaching movements. NeuroReport, 1996, 7, 2357-2362.	0.6	144