

Mackenzie Mathis

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

7,016
citations

516710

16
h-index

839539

18
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29
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29
docs citations

29
times ranked

7869
citing authors

#	ARTICLE	IF	CITATIONS
1	DeepLabCut: markerless pose estimation of user-defined body parts with deep learning. <i>Nature Neuroscience</i> , 2018, 21, 1281-1289.	14.8	2,710
2	Reference Maps of Human ES and iPS Cell Variation Enable High-Throughput Characterization of Pluripotent Cell Lines. <i>Cell</i> , 2011, 144, 439-452.	28.9	899
3	Using DeepLabCut for 3D markerless pose estimation across species and behaviors. <i>Nature Protocols</i> , 2019, 14, 2152-2176.	12.0	792
4	A functionally characterized test set of human induced pluripotent stem cells. <i>Nature Biotechnology</i> , 2011, 29, 279-286.	17.5	446
5	Necroptosis Drives Motor Neuron Death in Models of Both Sporadic and Familial ALS. <i>Neuron</i> , 2014, 81, 1001-1008.	8.1	353
6	Serotonergic neurons signal reward and punishment on multiple timescales. <i>ELife</i> , 2015, 4, .	6.0	282
7	Deep learning tools for the measurement of animal behavior in neuroscience. <i>Current Opinion in Neurobiology</i> , 2020, 60, 1-11.	4.2	271
8	Accelerated High-Yield Generation of Limb-Innervating Motor Neurons from Human Stem Cells. <i>Journal of Neuroscience</i> , 2013, 33, 574-586.	3.6	230
9	Perspectives in machine learning for wildlife conservation. <i>Nature Communications</i> , 2022, 13, 792.	12.8	176
10	Multi-animal pose estimation, identification and tracking with DeepLabCut. <i>Nature Methods</i> , 2022, 19, 496-504.	19.0	165
11	Somatosensory Cortex Plays an Essential Role in Forelimb Motor Adaptation in Mice. <i>Neuron</i> , 2017, 93, 1493-1503.e6.	8.1	144
12	A Primer on Motion Capture with Deep Learning: Principles, Pitfalls, and Perspectives. <i>Neuron</i> , 2020, 108, 44-65.	8.1	131
13	Real-time, low-latency closed-loop feedback using markerless posture tracking. <i>ELife</i> , 2020, 9, .	6.0	93
14	Maturation of Spinal Motor Neurons Derived from Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2012, 7, e40154.	2.5	64
15	Pretraining boosts out-of-domain robustness for pose estimation. , 2021, , .		53
16	Measuring and modeling the motor system with machine learning. <i>Current Opinion in Neurobiology</i> , 2021, 70, 11-23.	4.2	44
17	Dynamic extrinsic pacing of the HOX clock in human axial progenitors controls motor neuron subtype specification. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	37
18	AcinoSet: A 3D Pose Estimation Dataset and Baseline Models for Cheetahs in the Wild. , 2021, , .		23

#	ARTICLE	IF	CITATIONS
19	Motor control: Neural correlates of optimal feedback control theory. <i>Current Biology</i> , 2021, 31, R356-R358.	3.9	5
20	A new spin on fidgets. <i>Nature Neuroscience</i> , 2019, 22, 1614-1616.	14.8	3