

Saurabh Vyas

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,243
citations

933447

10
h-index

1058476

14
g-index

21
all docs

21
docs citations

21
times ranked

1616
citing authors

#	ARTICLE	IF	CITATIONS
1	Computation Through Neural Population Dynamics. Annual Review of Neuroscience, 2020, 43, 249-275.	10.7	319
2	Accurate Estimation of Neural Population Dynamics without Spike Sorting. Neuron, 2019, 103, 292-308.e4.	8.1	195
3	Unsupervised Discovery of Demixed, Low-Dimensional Neural Dynamics across Multiple Timescales through Tensor Component Analysis. Neuron, 2018, 98, 1099-1115.e8.	8.1	193
4	MRBrainS Challenge: Online Evaluation Framework for Brain Image Segmentation in 3T MRI Scans. Computational Intelligence and Neuroscience, 2015, 2015, 1-16.	1.7	179
5	Neural Population Dynamics Underlying Motor Learning Transfer. Neuron, 2018, 97, 1177-1186.e3.	8.1	100
6	InÂVivo Interrogation of Spinal Mechanosensory Circuits. Cell Reports, 2016, 17, 1699-1710.	6.4	62
7	Causal Role of Motor Preparation during Error-Driven Learning. Neuron, 2020, 106, 329-339.e4.	8.1	47
8	Cortical preparatory activity indexes learned motor memories. Nature, 2022, 602, 274-279.	27.8	38
9	Estimating physiological skin parameters from hyperspectral signatures. Journal of Biomedical Optics, 2013, 18, 057008.	2.6	24
10	Non-invasive estimation of skin thickness from hyperspectral imaging and validation using echography. Computers in Biology and Medicine, 2015, 57, 173-181.	7.0	21
11	Structure and variability of delay activity in premotor cortex. PLoS Computational Biology, 2019, 15, e1006808.	3.2	18
12	High-fidelity musculoskeletal modeling reveals that motor planning variability contributes to the speed-accuracy tradeoff. ELife, 2020, 9, .	6.0	9
13	Hyperspectral signature analysis of skin parameters. , 2013, , .		8
14	Computational modeling of skin reflectance spectra for biological parameter estimation through machine learning. Proceedings of SPIE, 2012, , .	0.8	7
15	Machine learning methods for in vivo skin parameter estimation. , 2013, , .		5
16	Endocardium segmentation in 3D Transesophageal Echocardiography. , 2013, , .		3
17	Endocardial Surface Delineation in 3-D Transesophageal Echocardiography. Ultrasound in Medicine and Biology, 2013, 39, 2447-2462.	1.5	2
18	Computing Cardiac Strain from Variational Optical Flow in Four-Dimensional Echocardiography. , 2014, , .		2