

Karunesh Ganguly

List of Publications by Year in descending order

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46
papers

4,051
citations

257450

24
h-index

254184

43
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all docs

50
docs citations

50
times ranked

4416
citing authors

#	ARTICLE	IF	CITATIONS
1	GABA Itself Promotes the Developmental Switch of Neuronal GABAergic Responses from Excitation to Inhibition. <i>Cell</i> , 2001, 105, 521-532.	28.9	602
2	Emergence of a Stable Cortical Map for Neuroprosthetic Control. <i>PLoS Biology</i> , 2009, 7, e1000153.	5.6	469
3	Coincident Pre- and Postsynaptic Activity Modifies GABAergic Synapses by Postsynaptic Changes in Cl ⁻ Transporter Activity. <i>Neuron</i> , 2003, 39, 807-820.	8.1	375
4	Oscillatory phase coupling coordinates anatomically dispersed functional cell assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17356-17361.	7.1	251
5	Reversible large-scale modification of cortical networks during neuroprosthetic control. <i>Nature Neuroscience</i> , 2011, 14, 662-667.	14.8	237
6	Neuroprosthesis for Decoding Speech in a Paralyzed Person with Anarthria. <i>New England Journal of Medicine</i> , 2021, 385, 217-227.	27.0	209
7	Competing Roles of Slow Oscillations and Delta Waves in Memory Consolidation versus Forgetting. <i>Cell</i> , 2019, 179, 514-526.e13.	28.9	159
8	Activity-Dependent Neural Plasticity from Bench to Bedside. <i>Neuron</i> , 2013, 80, 729-741.	8.1	158
9	Sleep-Dependent Reactivation of Ensembles in Motor Cortex Promotes Skill Consolidation. <i>PLoS Biology</i> , 2015, 13, e1002263.	5.6	149
10	Cortical Representation of Ipsilateral Arm Movements in Monkey and Man. <i>Journal of Neuroscience</i> , 2009, 29, 12948-12956.	3.6	134
11	Enhancement of presynaptic neuronal excitability by correlated presynaptic and postsynaptic spiking. <i>Nature Neuroscience</i> , 2000, 3, 1018-1026.	14.8	119
12	Reactivation of emergent task-related ensembles during slow-wave sleep after neuroprosthetic learning. <i>Nature Neuroscience</i> , 2014, 17, 1107-1113.	14.8	116
13	Low-frequency cortical activity is a neuromodulatory target that tracks recovery after stroke. <i>Nature Medicine</i> , 2018, 24, 1257-1267.	30.7	92
14	Neural reactivations during sleep determine network credit assignment. <i>Nature Neuroscience</i> , 2017, 20, 1277-1284.	14.8	88
15	Emergence of Coordinated Neural Dynamics Underlies Neuroprosthetic Learning and Skillful Control. <i>Neuron</i> , 2017, 93, 955-970.e5.	8.1	86
16	Emergent modular neural control drives coordinated motor actions. <i>Nature Neuroscience</i> , 2019, 22, 1122-1131.	14.8	80
17	Goal-directed whisking increases phase-locking between vibrissa movement and electrical activity in primary sensory cortex in rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12348-12353.	7.1	67
18	Plug-and-play control of a brain-computer interface through neural map stabilization. <i>Nature Biotechnology</i> , 2021, 39, 326-335.	17.5	60

#	ARTICLE	IF	CITATIONS
19	Robust Neuroprosthetic Control from the Stroke Perilesional Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 8653-8661.	3.6	55
20	Task-Dependent Changes in Cross-Level Coupling between Single Neurons and Oscillatory Activity in Multiscale Networks. <i>PLoS Computational Biology</i> , 2012, 8, e1002809.	3.2	52
21	Learning in Closed-Loop Brain-Machine Interfaces: Modeling and Experimental Validation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010, 40, 1387-1397.	5.0	46
22	Neural Correlates of Skill Acquisition with a Cortical Brain-Machine Interface. <i>Journal of Motor Behavior</i> , 2010, 42, 355-360.	0.9	45
23	An automated behavioral box to assess forelimb function in rats. <i>Journal of Neuroscience Methods</i> , 2015, 246, 30-37.	2.5	41
24	Low-frequency stimulation enhances ensemble co-firing and dexterity after stroke. <i>Cell</i> , 2021, 184, 912-930.e20.	28.9	41
25	Single-trial cross-area neural population dynamics during long-term skill learning. <i>Nature Communications</i> , 2020, 11, 4057.	12.8	35
26	A consensus statement: defining terms for reactivation analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20200001.	4.0	30
27	Effects of somatosensory electrical stimulation on motor function and cortical oscillations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 113.	4.6	28
28	Neurorehabilitation: Motor recovery after stroke as an example. <i>Annals of Neurology</i> , 2013, 74, 373-381.	5.3	24
29	Detecting event-related changes of multivariate phase coupling in dynamic brain networks. <i>Journal of Neurophysiology</i> , 2012, 107, 2020-2031.	1.8	23
30	The Degree of Nesting between Spindles and Slow Oscillations Modulates Neural Synchrony. <i>Journal of Neuroscience</i> , 2020, 40, 4673-4684.	3.6	22
31	Coupling between motor cortex and striatum increases during sleep over long-term skill learning. <i>ELife</i> , 2021, 10, .	6.0	22
32	Redundant information encoding in primary motor cortex during natural and prosthetic motor control. <i>Journal of Computational Neuroscience</i> , 2012, 32, 555-561.	1.0	21
33	Muscle synergies after stroke are correlated with perilesional high gamma. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 956-961.	3.7	21
34	Compartmentalized dynamics within a common multi-area mesoscale manifold represent a repertoire of human hand movements. <i>Neuron</i> , 2022, 110, 154-174.e12.	8.1	19
35	Coordinated increase of reliable cortical and striatal ensemble activations during recovery after stroke. <i>Cell Reports</i> , 2021, 36, 109370.	6.4	16
36	Cortical neuroprosthetics from a clinical perspective. <i>Neurobiology of Disease</i> , 2015, 83, 154-160.	4.4	14

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37	Cellular-scale silicon probes for high-density, precisely localized neurophysiology. <i>Journal of Neurophysiology</i> , 2020, 124, 1578-1587.	1.8	11
38	Transition from predictable to variable motor cortex and striatal ensemble patterning during behavioral exploration. <i>Nature Communications</i> , 2022, 13, 2450.	12.8	8
39	System Architecture for Stiffness Control in Brain-Machine Interfaces. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2010, 40, 732-742.	2.9	7
40	Recovery of consolidation after sleep following stroke—interaction of slow waves, spindles, and GABA. <i>Cell Reports</i> , 2022, 38, 110426.	6.4	7
41	Large-scale changes in cortical dynamics triggered by repetitive somatosensory electrical stimulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 59.	4.6	6
42	Shaping Reality through Mental Rehearsal. <i>Neuron</i> , 2018, 97, 998-1000.	8.1	2
43	Modeling and experimental validation of the learning process during closed-loop BMI operation. , 2009, , .		1
44	Management of Chronic Myelopathy Symptoms and Activities of Daily Living. <i>Seminars in Neurology</i> , 2012, 32, 161-168.	1.4	1
45	Timescales of local and cross-area interactions during neuroprosthetic learning. <i>Journal of Neuroscience</i> , 2021, 41, JN-RM-1397-21.	3.6	1
46	Redundant information encoding in primary motor cortex during motor tasks. , 2011, , .		0