paolo Bonifazi

List of Publications by Year in descending order

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331670 330143 2,366 39 21 37 citations h-index g-index papers 51 51 51 2935 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	GABAergic Hub Neurons Orchestrate Synchrony in Developing Hippocampal Networks. Science, 2009, 326, 1419-1424.	12.6	593
2	Sequential Generation of Two Distinct Synapse-Driven Network Patterns in Developing Neocortex. Journal of Neuroscience, 2008, 28, 12851-12863.	3.6	240
3	On the Dynamics of the Spontaneous Activity in Neuronal Networks. PLoS ONE, 2007, 2, e439.	2.5	224
4	Dissecting functional connectivity of neuronal microcircuits: experimental and theoretical insights. Trends in Neurosciences, 2011, 34, 225-236.	8.6	159
5	Pioneer GABA Cells Comprise a Subpopulation of Hub Neurons in the Developing Hippocampus. Neuron, 2011, 71, 695-709.	8.1	133
6	Toward the Neurocomputer: Image Processing and Pattern Recognition With Neuronal Cultures. IEEE Transactions on Biomedical Engineering, 2005, 52, 371-383.	4.2	110
7	A novel brain partition highlights the modular skeleton shared by structure and function. Scientific Reports, 2015, 5, 10532.	3.3	82
8	In vitro large-scale experimental and theoretical studies for the realization of bi-directional brain-prostheses. Frontiers in Neural Circuits, 2013, 7, 40.	2.8	72
9	Statistical properties of information processing in neuronal networks. European Journal of Neuroscience, 2005, 22, 2953-2964.	2.6	59
10	Pioneer glutamatergic cells develop into a morpho-functionally distinct population in the juvenile CA3 hippocampus. Nature Communications, 2012, 3, 1316.	12.8	52
11	Embryonic Stem Cell-Derived Neurons Form Functional Networks In Vitro. Stem Cells, 2007, 25, 738-749.	3.2	51
12	Early alterations in a mouse model of Rett syndrome: the GABA developmental shift is abolished at birth. Scientific Reports, 2019, 9, 9276.	3.3	50
13	Simultaneous high-speed imaging and optogenetic inhibition in the intact mouse brain. Scientific Reports, 2017, 7, 40041.	3.3	48
14	A Neuromorphic Prosthesis to Restore Communication in Neuronal Networks. IScience, 2019, 19, 402-414.	4.1	48
15	Structure–function multiâ€scale connectomics reveals a major role of the frontoâ€striatoâ€thalamic circuit in brain aging. Human Brain Mapping, 2018, 39, 4663-4677.	3.6	45
16	Silicon Chip for Electronic Communication Between Nerve Cells by Nonâ€invasive Interfacing and Analogâ€"Digital Processing. Advanced Materials, 2002, 14, 1190-1193.	21.0	38
17	Group-Level Progressive Alterations in Brain Connectivity Patterns Revealed by Diffusion-Tensor Brain Networks across Severity Stages in Alzheimer's Disease. Frontiers in Aging Neuroscience, 2017, 9, 215.	3.4	34
18	Clique of Functional Hubs Orchestrates Population Bursts in Developmentally Regulated Neural Networks. PLoS Computational Biology, 2014, 10, e1003823.	3.2	32

#	Article	IF	CITATIONS
19	Enhanced prefrontal functional–structural networks to support postural control deficits after traumatic brain injury in a pediatric population. Network Neuroscience, 2017, 1, 116-142.	2.6	32
20	The GABA Developmental Shift Is Abolished by Maternal Immune Activation Already at Birth. Cerebral Cortex, 2019, 29, 3982-3992.	2.9	29
21	Editorial: Closed-Loop Systems for Next-Generation Neuroprostheses. Frontiers in Neuroscience, 2018, 12, 26.	2.8	27
22	Astrocytes restore connectivity and synchronization in dysfunctional cerebellar networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8025-8030.	7.1	23
23	Toward neuroprosthetic real-time communication from in silico to biological neuronal network via patterned optogenetic stimulation. Scientific Reports, 2020, 10, 7512.	3.3	22
24	Pyramidal neuron growth and increased hippocampal volume during labor and birth in autism. Science Advances, 2019, 5, eaav0394.	10.3	21
25	Structure–Function Connectomics Reveals Aberrant Developmental Trajectory Occurring at Preadolescence in the Autistic Brain. Cerebral Cortex, 2020, 30, 5028-5037.	2.9	20
26	Interaction Information Along Lifespan of the Resting Brain Dynamics Reveals a Major Redundant Role of the Default Mode Network. Entropy, 2018, 20, 742.	2.2	17
27	A QUBO Formulation of the Stereo Matching Problem for D-Wave Quantum Annealers. Entropy, 2018, 20, 786.	2.2	15
28	The Role of the Neuro-Astro-Vascular Unit in the Etiology of Ataxia Telangiectasia. Frontiers in Pharmacology, 2012, 3, 157.	3 . 5	13
29	Modeling driver cells in developing neuronal networks. PLoS Computational Biology, 2018, 14, e1006551.	3.2	13
30	Microglial phagocytosis dysfunction in the dentate gyrus is related to local neuronal activity in a genetic model of epilepsy. Epilepsia, 2020, 61, 2593-2608.	5.1	10
31	Small variation in dynamic functional connectivity in cerebellar networks. Neurocomputing, 2021, 461, 751-761.	5.9	9
32	Modulation of Neural Network Activity through Single Cell Ablation: An in Vitro Model of Minimally Invasive Neurosurgery. Molecules, 2016, 21, 1018.	3.8	8
33	Quantifying network properties in multi-electrode recordings: spatiotemporal characterization and inter-trial variation of evoked gamma oscillations in mouse somatosensory cortex in vitro. Frontiers in Computational Neuroscience, 2013, 7, 134.	2.1	7
34	Design, Surface Treatment, Cellular Plating, and Culturing of Modular Neuronal Networks Composed of Functionally Inter-connected Circuits. Journal of Visualized Experiments, 2015, , .	0.3	6
35	Reconstruction of Functional Connectivity from Multielectrode Recordings and Calcium Imaging. Advances in Neurobiology, 2019, 22, 207-231.	1.8	6
36	Brain Mapping of Behavioral Domains Using Multi-Scale Networks and Canonical Correlation Analysis. Frontiers in Neuroscience, 0, 16, .	2.8	4

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#	Article	IF	CITATIONS
37	Building Bridges through Science. Neuron, 2017, 96, 730-735.	8.1	2
38	Functional Cliques in Developmentally Correlated Neural Networks. PoliTO Springer Series, 2019, , 53-64.	0.5	0
39	Multiscale network regression for associations between brain connectivity and cognitive and behavioural indices. , 2021, , .		0