Jordi Soriano

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8462614/publications.pdf

Version: 2024-02-01

61	2,315	236925	223800
papers	citations	25 h-index	46 g-index

64	64	64	3061
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Patient-Specific iPSC-Derived Astrocytes Contribute to Non-Cell-Autonomous Neurodegeneration in Parkinson's Disease. Stem Cell Reports, 2019, 12, 213-229.	4.8	250
2	Model-Free Reconstruction of Excitatory Neuronal Connectivity from Calcium Imaging Signals. PLoS Computational Biology, 2012, 8, e1002653.	3.2	212
3	Development of input connections in neural cultures. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13758-13763.	7.1	163
4	Noise focusing and the emergence of coherent activity in neuronal cultures. Nature Physics, 2013, 9, 582-590.	16.7	161
5	Aberrant epigenome in <scp>iPSC</scp> â€derived dopaminergic neurons from Parkinson's disease patients. EMBO Molecular Medicine, 2015, 7, 1529-1546.	6.9	117
6	The physics of living neural networks. Physics Reports, 2007, 449, 54-76.	25.6	110
7	Percolation in Living Neural Networks. Physical Review Letters, 2006, 97, 188102.	7.8	98
8	Transfer Entropy Reconstruction and Labeling of Neuronal Connections from Simulated Calcium Imaging. PLoS ONE, 2014, 9, e98842.	2.5	75
9	Impact of modular organization on dynamical richness in cortical networks. Science Advances, 2018, 4, eaau4914.	10.3	74
10	Emergence of Assortative Mixing between Clusters of Cultured Neurons. PLoS Computational Biology, 2014, 10, e1003796.	3.2	61
11	An Osmoregulatory Basis for Shape Oscillations in Regenerating Hydra. Biophysical Journal, 2008, 95, 978-985.	0.5	54
12	Identification of neuronal network properties from the spectral analysis of calcium imaging signals in neuronal cultures. Frontiers in Neural Circuits, 2013, 7, 199.	2.8	51
13	Interface roughening in Hele-Shaw flows with quenched disorder: Experimental and theoretical results. Europhysics Letters, 2001, 55, 194-200.	2.0	50
14	Anomalous Roughening of Hele-Shaw Flows with Quenched Disorder. Physical Review Letters, 2002, 89, 026102.	7.8	45
15	Magnetite-Amyloid-Î² deteriorates activity and functional organization in an in vitro model for Alzheimerâ€™s disease. Scientific Reports, 2015, 5, 17261.	3.3	44
16	7,8-dihydroxyflavone ameliorates cognitive and motor deficits in a Huntingtonâ€™s disease mouse model through specific activation of the PLCÎ³1 pathway. Human Molecular Genetics, 2017, 26, 3144-3160.	2.9	44
17	Anomalous Roughening of Viscous Fluid Fronts in Spontaneous Imbibition. Physical Review Letters, 2005, 95, 104501.	7.8	43
18	Interfacial instabilities of a fluid annulus in a rotating Heleâ€“Shaw cell. Physics of Fluids, 2000, 12, 1685-1698.	4.0	42

#	Article	IF	Citations
19	Mechanogenetic Coupling of Hydra Symmetry Breaking and Driven Turing Instability Model. Biophysical Journal, 2009, 96, 1649-1660.	0.5	41
20	Radial displacement of a fluid annulus in a rotating Heleâ€“Shaw cell. Physics of Fluids, 1999, 11, 778-785.	4.0	39
21	Quorum percolation in living neural networks. Europhysics Letters, 2010, 89, 18008.	2.0	37
22	Experiments of interfacial roughening in Hele-Shaw flows with weak quenched disorder. Physical Review E, 2002, 66, 031603.	2.1	35
23	In Vitro Development of Human iPSC-Derived Functional Neuronal Networks on Laser-Fabricated 3D Scaffolds. ACS Applied Materials & Interfaces, 2021, 13, 7839-7853.	8.0	34
24	Activity and High-Order Effective Connectivity Alterations in Sanfilippo C Patient-Specific Neuronal Networks. Stem Cell Reports, 2015, 5, 546-557.	4.8	31
25	Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment. Physical Review Letters, 2006, 97, 258102.	7.8	29
26	Grafted human pluripotent stem cellâ€derived cortical neurons integrate into adult human cortical neural circuitry. Stem Cells Translational Medicine, 2020, 9, 1365-1377.	3.3	29
27	Percolation of spatially constrained ErdÅ‘s-RÃ©nyi networks with degree correlations. Physical Review E, 2014, 89, 012116.	2.1	26
28	Dominance of Metric Correlations in Two-Dimensional Neuronal Cultures Described through a Random Field Ising Model. Physical Review Letters, 2017, 118, 208101.	7.8	25
29	Neuronal Spatial Arrangement Shapes Effective Connectivity Traits of in vitro Cortical Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 435-448.	6.4	25
30	BDNF and NTâ€3 increase excitatory input connectivity in rat hippocampal cultures. European Journal of Neuroscience, 2009, 30, 998-1010.	2.6	22
31	CRISPR/Cas9-mediated generation of a tyrosine hydroxylase reporter iPSC line for live imaging and isolation of dopaminergic neurons. Scientific Reports, 2019, 9, 6811.	3.3	22
32	Human Pluripotent Stem Cell-Derived Neurons Are Functionally Mature In Vitro and Integrate into the Mouse Striatum Following Transplantation. Molecular Neurobiology, 2020, 57, 2766-2798.	4.0	22
33	Development of two-photon polymerised scaffolds for optical interrogation and neurite guidance of human iPSC-derived cortical neuronal networks. Lab on A Chip, 2020, 20, 1792-1806.	6.0	20
34	Critical Behavior and Axis Defining Symmetry Breaking inHydraEmbryonic Development. Physical Review Letters, 2012, 108, 158103.	7.8	18
35	Transcriptomic and genetic studies identify NFAT5 as a candidate gene for cocaine dependence. Translational Psychiatry, 2015, 5, e667-e667.	4.8	17
36	Anomalous roughening in experiments of interfaces in Hele-Shaw flows with strong quenched disorder. Physical Review E, 2003, 67, 056308.	2.1	16

#	Article	IF	Citations
37	Impact of targeted attack on the spontaneous activity in spatial and biologically-inspired neuronal networks. Chaos, 2019, 29, 083126.	2.5	15
38	Spontaneous Functional Recovery after Focal Damage in Neuronal Cultures. ENeuro, 2020, 7, ENEURO.0254-19.2019.	1.9	13
39	BDNF and NT-3 Increase Velocity of Activity Front Propagation in Unidimensional Hippocampal Cultures. Journal of Neurophysiology, 2010, 104, 2932-2939.	1.8	12
40	Impact of Physical Obstacles on the Structural and Effective Connectivity of in silico Neuronal Circuits. Frontiers in Computational Neuroscience, 2020, 14, 77.	2.1	11
41	Deficits in coordinated neuronal activity and network topology are striatal hallmarks in Huntingtonâ€™s disease. BMC Biology, 2020, 18, 58.	3.8	11
42	Parkinsonâ€™s disease patient-specific neuronal networks carrying the LRRK2 G2019S mutation unveil early functional alterations that predate neurodegeneration. Npj Parkinson's Disease, 2021, 7, 55.	5.3	11
43	Universality of Persistence Exponents in Two-Dimensional Ostwald Ripening. Physical Review Letters, 2009, 103, 226101.	7.8	10
44	Messenger RNA fluctuations and regulatory RNAs shape the dynamics of a negative feedback loop. Physical Review E, 2010, 81, 031924.	2.1	9
45	Involvement of Mechanical Cues in the Migration of Cajal-Retzius Cells in the Marginal Zone During Neocortical Development. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	6
46	Noise-driven amplification mechanisms governing the emergence of coherent extreme events in excitable systems. Physical Review Research, 2021, 3, .	3.6	5
47	Functional strengthening through synaptic scaling upon connectivity disruption in neuronal cultures. Network Neuroscience, 2020, 4, 1160-1180.	2.6	5
48	Interplay activity-connectivity: Dynamics in patterned neuronal cultures. , 2013, , .		4
49	Analysis of spontaneous activity in neuronal cultures through recurrence plots: impact of varying connectivity. European Physical Journal: Special Topics, 2018, 227, 999-1014.	2.6	4
50	Analysis of co-isogenic prion protein deficient mice reveals behavioral deficits, learning impairment, and enhanced hippocampal excitability. BMC Biology, 2022, 20, 17.	3.8	4
51	First Connectomics Challenge: From Imaging to Connectivity. The Springer Series on Challenges in Machine Learning, 2017, , 1-22.	10.4	3
52	Dynamical robustness of collective neuronal activity upon targeted damage in interdependent networks. European Physical Journal: Special Topics, 2022, 231, 195-201.	2.6	3
53	Design of the first neuronal connectomics challenge: From imaging to connectivity. , 2014, , .		2
54	Percolation approach to study connectivity in living neural networks. AIP Conference Proceedings, 2007, , .	0.4	1

#	Article	IF	Citations
55	State-dependent network reconstruction from calcium imaging signals. BMC Neuroscience, 2011, 12, .	1.9	1
56	Network reconstruction from calcium imaging data of spontaneously bursting neuronal activity. BMC Neuroscience, 2013, 14, .	1.9	1
57	From structure to function, via dynamics. , 2013, , .		1
58	Experiments on clustered neuronal networks. , 2013, , .		1
59	The emergence of spontaneous activity in neuronal cultures, coherence from noise. BMC Neuroscience, 2013, 14, .	1.9	0
60	The emergence of spontaneous activity in neuronal cultures. , 2013, , .		0
61	Experiments in clustered neuronal networks: A paradigm for complex modular dynamics. AIP Conference Proceedings, 2016, , .	0.4	0