

# Jordi Soriano

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,315  
citations

236925

25  
h-index

223800

46  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3061  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical robustness of collective neuronal activity upon targeted damage in interdependent networks. <i>European Physical Journal: Special Topics</i> , 2022, 231, 195-201.	2.6	3
2	Analysis of co-isogenic prion protein deficient mice reveals behavioral deficits, learning impairment, and enhanced hippocampal excitability. <i>BMC Biology</i> , 2022, 20, 17.	3.8	4
3	Involvement of Mechanical Cues in the Migration of Cajal-Retzius Cells in the Marginal Zone During Neocortical Development. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	3.7	6
4	<i>In Vitro</i> Development of Human iPSC-Derived Functional Neuronal Networks on Laser-Fabricated 3D Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7839-7853.	8.0	34
5	Noise-driven amplification mechanisms governing the emergence of coherent extreme events in excitable systems. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
6	Parkinsonâ€™s disease patient-specific neuronal networks carrying the LRRK2 G2019S mutation unveil early functional alterations that predate neurodegeneration. <i>Npj Parkinson's Disease</i> , 2021, 7, 55.	5.3	11
7	Neuronal Spatial Arrangement Shapes Effective Connectivity Traits of <i>in vitro</i> Cortical Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2020, 7, 435-448.	6.4	25
8	Impact of Physical Obstacles on the Structural and Effective Connectivity of in silico Neuronal Circuits. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 77.	2.1	11
9	Deficits in coordinated neuronal activity and network topology are striatal hallmarks in Huntingtonâ€™s disease. <i>BMC Biology</i> , 2020, 18, 58.	3.8	11
10	Grafted human pluripotent stem cellâ€™derived cortical neurons integrate into adult human cortical neural circuitry. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1365-1377.	3.3	29
11	Human Pluripotent Stem Cell-Derived Neurons Are Functionally Mature In Vitro and Integrate into the Mouse Striatum Following Transplantation. <i>Molecular Neurobiology</i> , 2020, 57, 2766-2798.	4.0	22
12	Development of two-photon polymerised scaffolds for optical interrogation and neurite guidance of human iPSC-derived cortical neuronal networks. <i>Lab on A Chip</i> , 2020, 20, 1792-1806.	6.0	20
13	Functional strengthening through synaptic scaling upon connectivity disruption in neuronal cultures. <i>Network Neuroscience</i> , 2020, 4, 1160-1180.	2.6	5
14	Spontaneous Functional Recovery after Focal Damage in Neuronal Cultures. <i>ENeuro</i> , 2020, 7, ENEURO.0254-19.2019.	1.9	13
15	Patient-Specific iPSC-Derived Astrocytes Contribute to Non-Cell-Autonomous Neurodegeneration in Parkinson's Disease. <i>Stem Cell Reports</i> , 2019, 12, 213-229.	4.8	250
16	Impact of targeted attack on the spontaneous activity in spatial and biologically-inspired neuronal networks. <i>Chaos</i> , 2019, 29, 083126.	2.5	15
17	CRISPR/Cas9-mediated generation of a tyrosine hydroxylase reporter iPSC line for live imaging and isolation of dopaminergic neurons. <i>Scientific Reports</i> , 2019, 9, 6811.	3.3	22
18	Impact of modular organization on dynamical richness in cortical networks. <i>Science Advances</i> , 2018, 4, eaau4914.	10.3	74

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19	Analysis of spontaneous activity in neuronal cultures through recurrence plots: impact of varying connectivity. <i>European Physical Journal: Special Topics</i> , 2018, 227, 999-1014.	2.6	4
20	7,8-dihydroxyflavone ameliorates cognitive and motor deficits in a Huntington's disease mouse model through specific activation of the PLC $\beta$ 1 pathway. <i>Human Molecular Genetics</i> , 2017, 26, 3144-3160.	2.9	44
21	Dominance of Metric Correlations in Two-Dimensional Neuronal Cultures Described through a Random Field Ising Model. <i>Physical Review Letters</i> , 2017, 118, 208101.	7.8	25
22	First Connectomics Challenge: From Imaging to Connectivity. <i>The Springer Series on Challenges in Machine Learning</i> , 2017, , 1-22.	10.4	3
23	Experiments in clustered neuronal networks: A paradigm for complex modular dynamics. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
24	Magnetite-Amyloid- $\beta$ 2 deteriorates activity and functional organization in an in vitro model for Alzheimer's disease. <i>Scientific Reports</i> , 2015, 5, 17261.	3.3	44
25	Aberrant epigenome in <i>hiPSC</i> -derived dopaminergic neurons from Parkinson's disease patients. <i>EMBO Molecular Medicine</i> , 2015, 7, 1529-1546.	6.9	117
26	Activity and High-Order Effective Connectivity Alterations in Sanfilippo C Patient-Specific Neuronal Networks. <i>Stem Cell Reports</i> , 2015, 5, 546-557.	4.8	31
27	Transcriptomic and genetic studies identify NFAT5 as a candidate gene for cocaine dependence. <i>Translational Psychiatry</i> , 2015, 5, e667-e667.	4.8	17
28	Transfer Entropy Reconstruction and Labeling of Neuronal Connections from Simulated Calcium Imaging. <i>PLoS ONE</i> , 2014, 9, e98842.	2.5	75
29	Emergence of Assortative Mixing between Clusters of Cultured Neurons. <i>PLoS Computational Biology</i> , 2014, 10, e1003796.	3.2	61
30	Design of the first neuronal connectomics challenge: From imaging to connectivity. , 2014, , .		2
31	Percolation of spatially constrained Erdős-Rényi networks with degree correlations. <i>Physical Review E</i> , 2014, 89, 012116.	2.1	26
32	Noise focusing and the emergence of coherent activity in neuronal cultures. <i>Nature Physics</i> , 2013, 9, 582-590.	16.7	161
33	The emergence of spontaneous activity in neuronal cultures, coherence from noise. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
34	Network reconstruction from calcium imaging data of spontaneously bursting neuronal activity. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	1
35	The emergence of spontaneous activity in neuronal cultures. , 2013, , .		0
36	Interplay activity-connectivity: Dynamics in patterned neuronal cultures. , 2013, , .		4

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37	From structure to function, via dynamics. , 2013, , .		1
38	Experiments on clustered neuronal networks. , 2013, , .		1
39	Identification of neuronal network properties from the spectral analysis of calcium imaging signals in neuronal cultures. <i>Frontiers in Neural Circuits</i> , 2013, 7, 199.	2.8	51
40	Critical Behavior and Axis Defining Symmetry Breaking in Hydra Embryonic Development. <i>Physical Review Letters</i> , 2012, 108, 158103.	7.8	18
41	Model-Free Reconstruction of Excitatory Neuronal Connectivity from Calcium Imaging Signals. <i>PLoS Computational Biology</i> , 2012, 8, e1002653.	3.2	212
42	State-dependent network reconstruction from calcium imaging signals. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	1
43	BDNF and NT-3 Increase Velocity of Activity Front Propagation in Unidimensional Hippocampal Cultures. <i>Journal of Neurophysiology</i> , 2010, 104, 2932-2939.	1.8	12
44	Quorum percolation in living neural networks. <i>Europhysics Letters</i> , 2010, 89, 18008.	2.0	37
45	Messenger RNA fluctuations and regulatory RNAs shape the dynamics of a negative feedback loop. <i>Physical Review E</i> , 2010, 81, 031924.	2.1	9
46	Universality of Persistence Exponents in Two-Dimensional Ostwald Ripening. <i>Physical Review Letters</i> , 2009, 103, 226101.	7.8	10
47	BDNF and NT-3 increase excitatory input connectivity in rat hippocampal cultures. <i>European Journal of Neuroscience</i> , 2009, 30, 998-1010.	2.6	22
48	Mechanogenetic Coupling of Hydra Symmetry Breaking and Driven Turing Instability Model. <i>Biophysical Journal</i> , 2009, 96, 1649-1660.	0.5	41
49	An Osmoregulatory Basis for Shape Oscillations in Regenerating Hydra. <i>Biophysical Journal</i> , 2008, 95, 978-985.	0.5	54
50	Development of input connections in neural cultures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13758-13763.	7.1	163
51	Percolation approach to study connectivity in living neural networks. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
52	The physics of living neural networks. <i>Physics Reports</i> , 2007, 449, 54-76.	25.6	110
53	Percolation in Living Neural Networks. <i>Physical Review Letters</i> , 2006, 97, 188102.	7.8	98
54	Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment. <i>Physical Review Letters</i> , 2006, 97, 258102.	7.8	29

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55	Anomalous Roughening of Viscous Fluid Fronts in Spontaneous Imbibition. <i>Physical Review Letters</i> , 2005, 95, 104501.	7.8	43
56	Anomalous roughening in experiments of interfaces in Hele-Shaw flows with strong quenched disorder. <i>Physical Review E</i> , 2003, 67, 056308.	2.1	16
57	Anomalous Roughening of Hele-Shaw Flows with Quenched Disorder. <i>Physical Review Letters</i> , 2002, 89, 026102.	7.8	45
58	Experiments of interfacial roughening in Hele-Shaw flows with weak quenched disorder. <i>Physical Review E</i> , 2002, 66, 031603.	2.1	35
59	Interface roughening in Hele-Shaw flows with quenched disorder: Experimental and theoretical results. <i>Europhysics Letters</i> , 2001, 55, 194-200.	2.0	50
60	Interfacial instabilities of a fluid annulus in a rotating Hele-Shaw cell. <i>Physics of Fluids</i> , 2000, 12, 1685-1698.	4.0	42
61	Radial displacement of a fluid annulus in a rotating Hele-Shaw cell. <i>Physics of Fluids</i> , 1999, 11, 778-785.	4.0	39