

# Mã;ria Ercsey-Ravasz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9302125/publications.pdf>

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46  
papers

3,337  
citations

331259

21  
h-index

301761

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3651  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Weighted and Directed Interareal Connectivity Matrix for Macaque Cerebral Cortex. <i>Cerebral Cortex</i> , 2014, 24, 17-36.	1.6	711
2	Cortical High-Density Counterstream Architectures. <i>Science</i> , 2013, 342, 1238406.	6.0	468
3	A Predictive Network Model of Cerebral Cortical Connectivity Based on a Distance Rule. <i>Neuron</i> , 2013, 80, 184-197.	3.8	372
4	Weight Consistency Specifies Regularities of Macaque Cortical Networks. <i>Cerebral Cortex</i> , 2011, 21, 1254-1272.	1.6	316
5	The role of long-range connections on the specificity of the macaque interareal cortical network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5187-5192.	3.3	172
6	The Mouse Cortical Connectome, Characterized by an Ultra-Dense Cortical Graph, Maintains Specificity by Distinct Connectivity Profiles. <i>Neuron</i> , 2018, 97, 698-715.e10.	3.8	169
7	Spatial Embedding and Wiring Cost Constrain the Functional Layout of the Cortical Network of Rodents and Primates. <i>PLoS Biology</i> , 2016, 14, e1002512.	2.6	158
8	Complexity of the International Agro-Food Trade Network and Its Impact on Food Safety. <i>PLoS ONE</i> , 2012, 7, e37810.	1.1	125
9	Predicting commuter flows in spatial networks using a radiation model based on temporal ranges. <i>Nature Communications</i> , 2014, 5, 5347.	5.8	118
10	Optimization hardness as transient chaos in an analog approach to constraint satisfaction. <i>Nature Physics</i> , 2011, 7, 966-970.	6.5	82
11	Spiral Cracks in Drying Precipitates. <i>Physical Review Letters</i> , 2002, 88, 095502.	2.9	78
12	Modeling Conformational Ensembles of Slow Functional Motions in Pin1-WW. <i>PLoS Computational Biology</i> , 2010, 6, e1001015.	1.5	76
13	Spiral cracks without twisting. <i>Nature</i> , 2001, 410, 166-166.	13.7	49
14	Centrality Scaling in Large Networks. <i>Physical Review Letters</i> , 2010, 105, 038701.	2.9	48
15	The Chaos Within Sudoku. <i>Scientific Reports</i> , 2012, 2, 725.	1.6	41
16	Range-limited centrality measures in complex networks. <i>Physical Review E</i> , 2012, 85, 066103.	0.8	38
17	A multiscale cerebral neurochemical connectome of the rat brain. <i>PLoS Biology</i> , 2017, 15, e2002612.	2.6	34
18	Principles of dynamical modularity in biological regulatory networks. <i>Scientific Reports</i> , 2016, 6, 21957.	1.6	33

#	ARTICLE	IF	CITATIONS
19	A continuous-time MaxSAT solver with high analog performance. Nature Communications, 2018, 9, 4864.	5.8	25
20	Efficient Analog Circuits for Boolean Satisfiability. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 155-167.	2.1	23
21	Community detection by graph Voronoi diagrams. New Journal of Physics, 2014, 16, 063007.	1.2	22
22	Three-state Potts model in combination with the rock-scissors-paper game. Physical Review E, 2005, 71, 027102.	0.8	21
23	Asymmetric Continuous-Time Neural Networks without Local Traps for Solving Constraint Satisfaction Problems. PLoS ONE, 2013, 8, e73400.	1.1	18
24	Spreading of families in cyclic predator-prey models. Physical Review E, 2004, 70, 012901.	0.8	13
25	The Brain in Space. Research and Perspectives in Neurosciences, 2016, , 45-74.	0.4	13
26	Phase transition in an optimal clusterization model. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 357-368.	1.2	11
27	Stochastic simulations on the cellular wave computers. European Physical Journal B, 2006, 51, 407-411.	0.6	10
28	Alcohol and sweet reward are encoded by distinct meta-ensembles. Neuropharmacology, 2021, 195, 108496.	2.0	10
29	PERSPECTIVES FOR MONTE CARLO SIMULATIONS ON THE CNN UNIVERSAL MACHINE. International Journal of Modern Physics C, 2006, 17, 909-922.	0.8	8
30	Robust optimization with transiently chaotic dynamical systems. Europhysics Letters, 2014, 106, 40002.	0.7	8
31	Order-to-chaos transition in the hardness of random Boolean satisfiability problems. Physical Review E, 2016, 93, 052211.	0.8	8
32	Statistical physics on cellular neural network computers. Physica D: Nonlinear Phenomena, 2008, 237, 1226-1234.	1.3	7
33	Collective behavior of electronic fireflies. European Physical Journal B, 2008, 65, 271-277.	0.6	6
34	Correlation clustering on networks. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345003.	0.7	6
35	Continuous-time neural networks without local traps for solving Boolean satisfiability. , 2012, , .		6
36	Mitigating ageing bias in article level metrics using citation network analysis. Journal of Informetrics, 2021, 15, 101105.	1.4	6

#	ARTICLE	IF	CITATIONS
37	Cellular Neural Networks for NP-Hard Optimization. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	5
38	Cell Surface Protein mRNAs Show Differential Transcription in Pyramidal and Fast-Spiking Cells as Revealed by Single-Cell Sequencing. Cerebral Cortex, 2021, 31, 731-745.	1.6	5
39	Cellular neural networks for NP-hard optimization. , 2008, , .		4
40	A Novel Measure Inspired by Lyapunov Exponents for the Characterization of Dynamics in State-Transition Networks. Entropy, 2021, 23, 103.	1.1	4
41	Random Number Generator and Monte Carlo type Simulations on the CNN-UM. , 2006, , .		3
42	Stochastic optimization of spin-glasses on cellular neural/nonlinear network based processors. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1024-1030.	1.2	2
43	Analog dynamics for solving max-SAT problems. , 2014, , .		1
44	Stochastic graph Voronoi tessellation reveals community structure. Physical Review E, 2017, 95, 022306.	0.8	1
45	Cellular Wave Computing in Nanoscale via Million Processor Chips. , 2010, , 5-25.		1
46	A CNN SAT-solver robust to noise. , 2014, , .		0