

# Petra E VÃ©rtes

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

6,652  
citations

117625

34  
h-index

138484

58  
g-index

77  
all docs

77  
docs citations

77  
times ranked

8311  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cognitive relevance of the community structure of the human brain functional coactivation network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11583-11588.	7.1	422
2	Adolescence is associated with genomically patterned consolidation of the hubs of the human brain connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9105-9110.	7.1	415
3	Integrated strategy for improving functional connectivity mapping using multiecho fMRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16187-16192.	7.1	342
4	A wavelet method for modeling and despiking motion artifacts from resting-state fMRI time series. <i>NeuroImage</i> , 2014, 95, 287-304.	4.2	336
5	Morphometric Similarity Networks Detect Microscale Cortical Organization and Predict Inter-Individual Cognitive Variation. <i>Neuron</i> , 2018, 97, 231-247.e7.	8.1	307
6	Simple models of human brain functional networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5868-5873.	7.1	303
7	The Anatomical Distance of Functional Connections Predicts Brain Network Topology in Health and Schizophrenia. <i>Cerebral Cortex</i> , 2013, 23, 127-138.	2.9	283
8	Network control principles predict neuron function in the <i>Caenorhabditis elegans</i> connectome. <i>Nature</i> , 2017, 550, 519-523.	27.8	279
9	Hubs of brain functional networks are radically reorganized in comatose patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20608-20613.	7.1	269
10	The Rich Club of the <i>C. elegans</i> Neuronal Connectome. <i>Journal of Neuroscience</i> , 2013, 33, 6380-6387.	3.6	265
11	Generative models of the human connectome. <i>NeuroImage</i> , 2016, 124, 1054-1064.	4.2	259
12	Specific Frontostriatal Circuits for Impaired Cognitive Flexibility and Goal-Directed Planning in Obsessive-Compulsive Disorder: Evidence From Resting-State Functional Connectivity. <i>Biological Psychiatry</i> , 2017, 81, 708-717.	1.3	214
13	Cortical patterning of abnormal morphometric similarity in psychosis is associated with brain expression of schizophrenia-related genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9604-9609.	7.1	200
14	Adolescent Tuning of Association Cortex in Human Structural Brain Networks. <i>Cerebral Cortex</i> , 2018, 28, 281-294.	2.9	195
15	Gene transcription profiles associated with inter-modular hubs and connection distance in human functional magnetic resonance imaging networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150362.	4.0	188
16	Structural covariance networks are coupled to expression of genes enriched in supragranular layers of the human cortex. <i>NeuroImage</i> , 2018, 171, 256-267.	4.2	177
17	Annual Research Review: Growth connectomics – the organization and reorganization of brain networks during normal and abnormal development. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2015, 56, 299-320.	5.2	173
18	The Multilayer Connectome of <i>Caenorhabditis elegans</i> . <i>PLoS Computational Biology</i> , 2016, 12, e1005283.	3.2	170

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19	Replicable and Coupled Changes in Innate and Adaptive Immune Gene Expression in Two Case-Control Studies of Blood Microarrays in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2018, 83, 70-80.	1.3	158
20	Transcriptomic and cellular decoding of regional brain vulnerability to neurogenetic disorders. <i>Nature Communications</i> , 2020, 11, 3358.	12.8	141
21	Volitional eyes opening perturbs brain dynamics and functional connectivity regardless of light input. <i>NeuroImage</i> , 2013, 69, 21-34.	4.2	99
22	Shifts in myeloarchitecture characterise adolescent development of cortical gradients. <i>ELife</i> , 2019, 8, .	6.0	97
23	Conservative and disruptive modes of adolescent change in human brain functional connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3248-3253.	7.1	96
24	Waves of Maturation and Senescence in Micro-structural MRI Markers of Human Cortical Myelination over the Lifespan. <i>Cerebral Cortex</i> , 2019, 29, 1369-1381.	2.9	91
25	Regional expression of the MAPT gene is associated with loss of hubs in brain networks and cognitive impairment in Parkinson disease and progressive supranuclear palsy. <i>Neurobiology of Aging</i> , 2016, 48, 153-160.	3.1	79
26	Peripheral Immune Cell Populations Associated with Cognitive Deficits and Negative Symptoms of Treatment-Resistant Schizophrenia. <i>PLoS ONE</i> , 2016, 11, e0155631.	2.5	79
27	Phase transition in the economically modeled growth of a cellular nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7880-7885.	7.1	67
28	Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	65
29	A Unifying Framework for Measuring Weighted Rich Clubs. <i>Scientific Reports</i> , 2014, 4, 7258.	3.3	61
30	Stochastic Blockmodeling of the Modules and Core of the <i>Caenorhabditis elegans</i> Connectome. <i>PLoS ONE</i> , 2014, 9, e97584.	2.5	59
31	Schizotypy-Related Magnetization of Cortex in Healthy Adolescence Is Colocated With Expression of Schizophrenia-Related Genes. <i>Biological Psychiatry</i> , 2020, 88, 248-259.	1.3	59
32	Repeated exposure to systemic inflammation and risk of new depressive symptoms among older adults. <i>Translational Psychiatry</i> , 2017, 7, e1208-e1208.	4.8	48
33	Major Depressive Disorder Is Associated With Differential Expression of Innate Immune and Neutrophil-Related Gene Networks in Peripheral Blood: A Quantitative Review of Whole-Genome Transcriptional Data From Case-Control Studies. <i>Biological Psychiatry</i> , 2020, 88, 625-637.	1.3	43
34	Generative models of rich clubs in Hebbian neuronal networks and large-scale human brain networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130531.	4.0	42
35	A Network Neuroscience Approach to Typical and Atypical Brain Development. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 754-766.	1.5	39
36	Fast reconfiguration of high-frequency brain networks in response to surprising changes in auditory input. <i>Journal of Neurophysiology</i> , 2012, 107, 1421-1430.	1.8	36

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37	Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. <i>Epilepsia</i> , 2022, 63, 61-74.	5.1	36
38	A generative network model of neurodevelopmental diversity in structural brain organization. <i>Nature Communications</i> , 2021, 12, 4216.	12.8	34
39	Multiple Holdouts With Stability: Improving the Generalizability of Machine Learning Analyses of Brain-Behavior Relationships. <i>Biological Psychiatry</i> , 2020, 87, 368-376.	1.3	32
40	Brain-behaviour modes of covariation in healthy and clinically depressed young people. <i>Scientific Reports</i> , 2019, 9, 11536.	3.3	31
41	Natural Language Processing markers in first episode psychosis and people at clinical high-risk. <i>Translational Psychiatry</i> , 2021, 11, 630.	4.8	28
42	Multimodal imaging of brain connectivity reveals predictors of individual decision strategy in statistical learning. <i>Nature Human Behaviour</i> , 2019, 3, 297-307.	12.0	24
43	<i>Caenorhabditis elegans</i> and the network control frameworkâ€”FAQs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170372.	4.0	23
44	Compulsivity is linked to reduced adolescent development of goal-directed control and frontostriatal functional connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25911-25922.	7.1	23
45	Versatility of nodal affiliation to communities. <i>Scientific Reports</i> , 2017, 7, 4273.	3.3	21
46	Low-dimensional morphospace of topological motifs in human fMRI brain networks. <i>Network Neuroscience</i> , 2018, 2, 285-302.	2.6	20
47	Large-Scale Functional Brain Network Reorganization During Taoist Meditation. <i>Brain Connectivity</i> , 2016, 6, 9-24.	1.7	19
48	Reinforcement learning as an intermediate phenotype in psychosis? Deficits sensitive to illness stage but not associated with polygenic risk of schizophrenia in the general population. <i>Schizophrenia Research</i> , 2020, 222, 389-396.	2.0	16
49	Effect of network topology on neuronal encoding based on spatiotemporal patterns of spikes. <i>HFSP Journal</i> , 2010, 4, 153-163.	2.5	14
50	From Lichtheim to Rich Club. <i>JAMA Psychiatry</i> , 2013, 70, 780.	11.0	14
51	Recordings of <i>Caenorhabditis elegans</i> locomotor behaviour following targeted ablation of single motoneurons. <i>Scientific Data</i> , 2017, 4, 170156.	5.3	14
52	Sexually divergent development of depression-related brain networks during healthy human adolescence. <i>Science Advances</i> , 2022, 8, .	10.3	14
53	Topological isomorphisms of human brain and financial market networks. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 75.	2.5	12
54	Brain Networks Reveal the Effects of Antipsychotic Drugs on Schizophrenia Patients and Controls. <i>Frontiers in Psychiatry</i> , 2019, 10, 611.	2.6	7

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55	Multi-subject Stochastic Blockmodels for adaptive analysis of individual differences in human brain network cluster structure. <i>NeuroImage</i> , 2020, 220, 116611.	4.2	7
56	Towards a natural history of schizophrenia. <i>Brain</i> , 2019, 142, 3669-3671.	7.6	2
57	Scale-free statistics of neuronal assemblies predict learning performance. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	1
58	Organizing principles of the <i>C.Âelegans</i> contactome. <i>Cell Systems</i> , 2021, 12, 689-691.	6.2	0
59	Centrality Clubs and Concepts of the Core: Decoding the Communicative Organisation of the Brain. <i>Springer Proceedings in Complexity</i> , 2013, , 497-501.	0.3	0