

Danilo Bzdok

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

8,613
citations

66343

42
h-index

58581

82
g-index

144
all docs

144
docs citations

144
times ranked

10155
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistics versus machine learning. <i>Nature Methods</i> , 2018, 15, 233-234.	19.0	826
2	Behavior, sensitivity, and power of activation likelihood estimation characterized by massive empirical simulation. <i>NeuroImage</i> , 2016, 137, 70-85.	4.2	547
3	Parsing the neural correlates of moral cognition: ALE meta-analysis on morality, theory of mind, and empathy. <i>Brain Structure and Function</i> , 2012, 217, 783-796.	2.3	510
4	Machine Learning for Precision Psychiatry: Opportunities and Challenges. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 223-230.	1.5	365
5	An investigation of the structural, connectional, and functional subspecialization in the human amygdala. <i>Human Brain Mapping</i> , 2013, 34, 3247-3266.	3.6	333
6	Characterization of the temporo-parietal junction by combining data-driven parcellation, complementary connectivity analyses, and functional decoding. <i>NeuroImage</i> , 2013, 81, 381-392.	4.2	250
7	Connectivity-based parcellation: Critique and implications. <i>Human Brain Mapping</i> , 2015, 36, 4771-4792.	3.6	246
8	An improved neuroanatomical model of the default-mode network reconciles previous neuroimaging and neuropathological findings. <i>Communications Biology</i> , 2019, 2, 370.	4.4	224
9	Machine learning: supervised methods. <i>Nature Methods</i> , 2018, 15, 5-6.	19.0	190
10	Deep neural networks and kernel regression achieve comparable accuracies for functional connectivity prediction of behavior and demographics. <i>NeuroImage</i> , 2020, 206, 116276.	4.2	187
11	Segregation of the human medial prefrontal cortex in social cognition. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 232.	2.0	179
12	Subspecialization in the human posterior medial cortex. <i>NeuroImage</i> , 2015, 106, 55-71.	4.2	171
13	Finding the needle in a high-dimensional haystack: Canonical correlation analysis for neuroscientists. <i>NeuroImage</i> , 2020, 216, 116745.	4.2	163
14	Inference in the age of big data: Future perspectives on neuroscience. <i>NeuroImage</i> , 2017, 155, 549-564.	4.2	161
15	Autism spectrum heterogeneity: fact or artifact?. <i>Molecular Psychiatry</i> , 2020, 25, 3178-3185.	7.9	157
16	Different scaling of linear models and deep learning in UKBiobank brain images versus machine-learning datasets. <i>Nature Communications</i> , 2020, 11, 4238.	12.8	156
17	The Neurobiology of Social Distance. <i>Trends in Cognitive Sciences</i> , 2020, 24, 717-733.	7.8	156
18	Exploration, Inference, and Prediction in Neuroscience and Biomedicine. <i>Trends in Neurosciences</i> , 2019, 42, 251-262.	8.6	150

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19	Left inferior parietal lobe engagement in social cognition and language. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 68, 319-334.	6.1	136
20	Functional Segregation of the Human Dorsomedial Prefrontal Cortex. <i>Cerebral Cortex</i> , 2016, 26, 304-321.	2.9	130
21	Computing the Social Brain Connectome Across Systems and States. <i>Cerebral Cortex</i> , 2018, 28, 2207-2232.	2.9	127
22	Subspecialization within default mode nodes characterized in 10,000 UK Biobank participants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12295-12300.	7.1	125
23	Classical Statistics and Statistical Learning in Imaging Neuroscience. <i>Frontiers in Neuroscience</i> , 2017, 11, 543.	2.8	116
24	Dimensions of Experience: Exploring the Heterogeneity of the Wandering Mind. <i>Psychological Science</i> , 2018, 29, 56-71.	3.3	109
25	The default network of the human brain is associated with perceived social isolation. <i>Nature Communications</i> , 2020, 11, 6393.	12.8	108
26	Fasting alters the gut microbiome reducing blood pressure and body weight in metabolic syndrome patients. <i>Nature Communications</i> , 2021, 12, 1970.	12.8	108
27	Machine learning: a primer. <i>Nature Methods</i> , 2017, 14, 1119-1120.	19.0	104
28	Mapping gene transcription and neurocognition across human neocortex. <i>Nature Human Behaviour</i> , 2021, 5, 1240-1250.	12.0	86
29	Liver Fibrosis and Metabolic Alterations in Adults With alpha-1-antitrypsin Deficiency Caused by the Pi*ZZ Mutation. <i>Gastroenterology</i> , 2019, 157, 705-719.e18.	1.3	82
30	The Modular Neuroarchitecture of Social Judgments on Faces. <i>Cerebral Cortex</i> , 2012, 22, 951-961.	2.9	79
31	Varieties of semantic cognition revealed through simultaneous decomposition of intrinsic brain connectivity and behaviour. <i>NeuroImage</i> , 2017, 158, 1-11.	4.2	78
32	Topography and behavioral relevance of the global signal in the human brain. <i>Scientific Reports</i> , 2019, 9, 14286.	3.3	77
33	A view behind the mask of sanity: meta-analysis of aberrant brain activity in psychopaths. <i>Molecular Psychiatry</i> , 2019, 24, 463-470.	7.9	76
34	Prediction, Not Association, Paves the Road to Precision Medicine. <i>JAMA Psychiatry</i> , 2021, 78, 127.	11.0	76
35	Atlases of cognition with large-scale human brain mapping. <i>PLoS Computational Biology</i> , 2018, 14, e1006565.	3.2	74
36	Dark control: The default mode network as a reinforcement learning agent. <i>Human Brain Mapping</i> , 2020, 41, 3318-3341.	3.6	73

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37	Formal Models of the Network Co-occurrence Underlying Mental Operations. PLoS Computational Biology, 2016, 12, e1004994.	3.2	73
38	Shared and unique brain network features predict cognitive, personality, and mental health scores in the ABCD study. Nature Communications, 2022, 13, 2217.	12.8	67
39	Functional specialization within the inferior parietal lobes across cognitive domains. ELife, 2021, 10, .	6.0	65
40	Shared endo-phenotypes of default mode dysfunction in attention deficit/hyperactivity disorder and autism spectrum disorder. Translational Psychiatry, 2018, 8, 133.	4.8	59
41	Towards algorithmic analytics for large-scale datasets. Nature Machine Intelligence, 2019, 1, 296-306.	16.0	58
42	10,000 social brains: Sex differentiation in human brain anatomy. Science Advances, 2020, 6, eaaz1170.	10.3	55
43	Signal diffusion along connectome gradients and inter-hub routing differentially contribute to dynamic human brain function. NeuroImage, 2021, 224, 117429.	4.2	54
44	The neural basis of sex differences in sexual behavior: A quantitative meta-analysis. Frontiers in Neuroendocrinology, 2016, 43, 28-43.	5.2	53
45	Medial Prefrontal Aberrations in Major Depressive Disorder Revealed by Cytoarchitectonically Informed Voxel-Based Morphometry. American Journal of Psychiatry, 2016, 173, 291-298.	7.2	52
46	Myeloarchitecture gradients in the human insula: Histological underpinnings and association to intrinsic functional connectivity. NeuroImage, 2020, 216, 116859.	4.2	51
47	Outcome after acute ischemic stroke is linked to sex-specific lesion patterns. Nature Communications, 2021, 12, 3289.	12.8	50
48	Rapid short-term reorganization in the language network. ELife, 2017, 6, .	6.0	49
49	How does hemispheric specialization contribute to human-defining cognition?. Neuron, 2021, 109, 2075-2090.	8.1	47
50	Building blocks of social cognition: Mirror, mentalize, share?. Cortex, 2019, 118, 4-18.	2.4	46
51	Cross-ethnicity/race generalization failure of behavioral prediction from resting-state functional connectivity. Science Advances, 2022, 8, eabj1812.	10.3	45
52	Inference and Prediction Diverge in Biomedicine. Patterns, 2020, 1, 100119.	5.9	42
53	Patterns of thought: Population variation in the associations between large-scale network organisation and self-reported experiences at rest. NeuroImage, 2018, 176, 518-527.	4.2	40
54	Different shades of default mode disturbance in schizophrenia: Subnodal covariance estimation in structure and function. Human Brain Mapping, 2018, 39, 644-661.	3.6	38

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55	ANIMA: A data-sharing initiative for neuroimaging meta-analyses. <i>NeuroImage</i> , 2016, 124, 1245-1253.	4.2	37
56	Joint prediction of multiple scores captures better individual traits from brain images. <i>NeuroImage</i> , 2017, 158, 145-154.	4.2	35
57	Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. <i>Brain</i> , 2020, 143, 2189-2206.	7.6	35
58	Trips and neurotransmitters: Discovering principled patterns across 6850 hallucinogenic experiences. <i>Science Advances</i> , 2022, 8, eabl6989.	10.3	34
59	Action and object words are differentially anchored in the sensory motor system - A perspective on cognitive embodiment. <i>Scientific Reports</i> , 2018, 8, 6583.	3.3	32
60	Meta-matching as a simple framework to translate phenotypic predictive models from big to small data. <i>Nature Neuroscience</i> , 2022, 25, 795-804.	14.8	29
61	Analysing brain networks in population neuroscience: a case for the Bayesian philosophy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190661.	4.0	27
62	The meaning of significant mean group differences for biomarker discovery. <i>PLoS Computational Biology</i> , 2021, 17, e1009477.	3.2	26
63	Brain-based ranking of cognitive domains to predict schizophrenia. <i>Human Brain Mapping</i> , 2019, 40, 4487-4507.	3.6	25
64	Meta-analytic evidence for a joint neural mechanism underlying response inhibition and state anger. <i>Human Brain Mapping</i> , 2020, 41, 3147-3160.	3.6	25
65	Connectivity alterations in autism reflect functional idiosyncrasy. <i>Communications Biology</i> , 2021, 4, 1078.	4.4	25
66	Distinct functional roles of the mirror neuron system and the mentalizing system. <i>NeuroImage</i> , 2019, 202, 116102.	4.2	24
67	Multi-scale network regression for brain-phenotype associations. <i>Human Brain Mapping</i> , 2020, 41, 2553-2566.	3.6	24
68	Population modeling with machine learning can enhance measures of mental health. <i>GigaScience</i> , 2021, 10, .	6.4	23
69	Multivariate, Transgenerational Associations of the COVID-19 Pandemic Across Minoritized and Marginalized Communities. <i>JAMA Psychiatry</i> , 2022, 79, 350.	11.0	23
70	A guided multiverse study of neuroimaging analyses. <i>Nature Communications</i> , 2022, 13, .	12.8	23
71	Neural Correlates of Explicit Social Judgments on Vocal Stimuli. <i>Cerebral Cortex</i> , 2015, 25, 1152-1162.	2.9	22
72	Variability in Brain Structure and Function Reflects Lack of Peer Support. <i>Cerebral Cortex</i> , 2021, 31, 4612-4627.	2.9	22

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73	Predictive Pattern Classification Can Distinguish Gender Identity Subtypes from Behavior and Brain Imaging. <i>Cerebral Cortex</i> , 2020, 30, 2755-2765.	2.9	21
74	Generative lesion pattern decomposition of cognitive impairment after stroke. <i>Brain Communications</i> , 2021, 3, fcab110.	3.3	20
75	Patterns of autism symptoms: hidden structure in the ADOS and ADI-R instruments. <i>Translational Psychiatry</i> , 2020, 10, 257.	4.8	19
76	Is deep learning better than kernel regression for functional connectivity prediction of fluid intelligence?. , 2018, , .		18
77	Dissecting the midlife crisis: disentangling social, personality and demographic determinants in social brain anatomy. <i>Communications Biology</i> , 2021, 4, 728.	4.4	18
78	Effects of eight neuropsychiatric copy number variants on human brain structure. <i>Translational Psychiatry</i> , 2021, 11, 399.	4.8	18
79	Population heterogeneity in clinical cohorts affects the predictive accuracy of brain imaging. <i>PLoS Biology</i> , 2022, 20, e3001627.	5.6	17
80	Imbalance in subregional connectivity of the right temporoparietal junction in major depression. <i>Human Brain Mapping</i> , 2016, 37, 2931-2942.	3.6	16
81	Inferring disease subtypes from clusters in explanation space. <i>Scientific Reports</i> , 2020, 10, 12900.	3.3	16
82	Patterns of schizophrenia symptoms: hidden structure in the PANSS questionnaire. <i>Translational Psychiatry</i> , 2018, 8, 237.	4.8	14
83	Population variability in social brain morphology for social support, household size and friendship satisfaction. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 635-647.	3.0	13
84	Deep learning identifies partially overlapping subnetworks in the human social brain. <i>Communications Biology</i> , 2021, 4, 65.	4.4	11
85	Human brain anatomy reflects separable genetic and environmental components of socioeconomic status. <i>Science Advances</i> , 2022, 8, eabm2923.	10.3	11
86	Decision Models and Technology Can Help Psychiatry Develop Biomarkers. <i>Frontiers in Psychiatry</i> , 2021, 12, 706655.	2.6	9
87	Neuroimaging Research: From Null-Hypothesis Falsification to Out-of-Sample Generalization. <i>Educational and Psychological Measurement</i> , 2017, 77, 868-880.	2.4	8
88	Neurocognitive patterns dissociating semantic processing from executive control are linked to more detailed off-task mental time travel. <i>Scientific Reports</i> , 2020, 10, 11904.	3.3	8
89	Educating the future generation of researchers: A cross-disciplinary survey of trends in analysis methods. <i>PLoS Biology</i> , 2021, 19, e3001313.	5.6	8
90	Hierarchical Region-Network Sparsity for High-Dimensional Inference in Brain Imaging. <i>Lecture Notes in Computer Science</i> , 2017, 10265, 323-335.	1.3	8

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91	Loneliness is linked to specific subregional alterations in hippocampus-default network covariation. <i>Journal of Neurophysiology</i> , 2021, 126, 2138-2157.	1.8	8
92	Sex-specific lesion pattern of functional outcomes after stroke. <i>Brain Communications</i> , 2022, 4, fcac020.	3.3	8
93	Recovery after stroke: the severely impaired are a distinct group. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, 369-378.	1.9	8
94	From YouTube to the brain: Transfer learning can improve brain-imaging predictions with deep learning. <i>Neural Networks</i> , 2022, 153, 325-338.	5.9	8
95	The Neurobiology of Moral Cognition: Relation to Theory of Mind, Empathy, and Mind-Wandering. , 2015, , 127-148.		7
96	More Than Meets the Eye: Art Engages the Social Brain. <i>Frontiers in Neuroscience</i> , 2022, 16, 738865.	2.8	6
97	Interacting brains revisited: A cross-brain network neuroscience perspective. <i>Human Brain Mapping</i> , 2022, 43, 4458-4474.	3.6	6
98	Diagnosing as autistic people increasingly distant from prototypes lead neither to clinical benefit nor to the advancement of knowledge. <i>Molecular Psychiatry</i> , 2022, 27, 773-775.	7.9	5
99	Loneliness and Neurocognitive Aging. <i>Advances in Geriatric Medicine and Research</i> , 2021, 3, .	0.6	4
100	A cognitive fingerprint in human random number generation. <i>Scientific Reports</i> , 2021, 11, 20217.	3.3	4
101	Multivariate single-subject analysis of short-term reorganization in the language network. <i>Cortex</i> , 2018, 106, 309-312.	2.4	3
102	Pattern learning reveals brain asymmetry to be linked to socioeconomic status. <i>Cerebral Cortex Communications</i> , 2022, 3, .	1.6	3
103	Lacking social support is associated with structural divergences in hippocampusâ€“default network co-variation patterns. <i>Social Cognitive and Affective Neuroscience</i> , 2022, 17, 802-818.	3.0	2
104	From Precision Medicine to Precision Convergence for Multilevel Resilienceâ€”The Aging Brain and Its Social Isolation. <i>Frontiers in Public Health</i> , 0, 10, .	2.7	2
105	Contemptâ€”Where the modularity of the mind meets the modularity of the brain?. <i>Behavioral and Brain Sciences</i> , 2017, 40, e229.	0.7	1
106	Population variation in social brain morphology: Links to socioeconomic status and health disparity. <i>Social Neuroscience</i> , 2022, 17, 305-327.	1.3	1
107	What matters and what is possible in neuroimaging meta-analyses (of psychopathy). <i>Molecular Psychiatry</i> , 2020, 25, 3125-3126.	7.9	0
108	Adapting to the COVIDâ€“19 pandemic in cohort studies: Validation of online assessments of cognition and neuropsychiatric symptoms in an aging population. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0

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109	Tauâ€PET is associated with knowledge of COVIDâ€19, COVIDâ€19â€related distress, and change in sleep quality during the pandemic. Alzheimer's and Dementia, 2021, 17, .	0.8	0
110	Tauâ€load in the lingual gyrus impacts anxiety levels during the COVIDâ€19 pandemic in participants of longitudinal observational studies in aging. Alzheimer's and Dementia, 2021, 17, .	0.8	0
111	Cognitive health mediates the effect of hippocampal volume on COVIDâ€19â€related knowledge or anxiety change during the COVIDâ€19 pandemic. Alzheimer's and Dementia, 2021, 17, .	0.8	0