Alessandro Gozzi

List of Publications by Year
in descending order

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101 papers	6,720 citations	53660 45 h-index	79541 73 g-index
132 all docs	132 docs citations	132 times ranked	8305 citing authors

#	Article	IF	Citations
1	Deficient neuron-microglia signaling results in impaired functional brain connectivity and social behavior. Nature Neuroscience, 2014, 17, 400-406.	7.1	958
2	A stereotaxic MRI template set for the rat brain with tissue class distribution maps and co-registered anatomical atlas: Application to pharmacological MRI. NeuroImage, 2006, 32, 538-550.	2.1	292
3	Distributed BOLD and CBV-weighted resting-state networks in the mouse brain. NeuroImage, 2014, 87, 403-415.	2.1	199
4	Large-scale functional connectivity networks in the rodent brain. NeuroImage, 2016, 127, 496-509.	2.1	199
5	A Neural Switch for Active and Passive Fear. Neuron, 2010, 67, 656-666.	3.8	183
6	Functional connectivity hubs of the mouse brain. NeuroImage, 2015, 115, 281-291.	2.1	161
7	Common functional networks in the mouse brain revealed by multi-centre resting-state fMRI analysis. NeuroImage, 2020, 205, 116278.	2.1	151
8	Altered Neocortical Gene Expression, Brain Overgrowth and Functional Over-Connectivity in Chd8 Haploinsufficient Mice. Cerebral Cortex, 2018, 28, 2192-2206.	1.6	118
9	The Morphology and Adhesion Mechanism of Octopus vulgaris Suckers. PLoS ONE, 2013, 8, e65074.	1.1	117
10	Neuroimaging Evidence of Major Morpho-Anatomical and Functional Abnormalities in the BTBR T+TF/J Mouse Model of Autism. PLoS ONE, 2013, 8, e76655.	1.1	115
11	In vivo mapping of functional connectivity in neurotransmitter systems using pharmacological MRI. NeuroImage, 2007, 34, 1627-1636.	2.1	112
12	Differential Effects of Antipsychotic and Glutamatergic Agents on the phMRI Response to Phencyclidine. Neuropsychopharmacology, 2008, 33, 1690-1703.	2.8	111
13	Dominant Î²-catenin mutations cause intellectual disability with recognizable syndromic features. Journal of Clinical Investigation, 2014, 124, 1468-1482.	3.9	110
14	Infraslow State Fluctuations Govern Spontaneous fMRI Network Dynamics. Current Biology, 2019, 29, 2295-2306.e5.	1.8	107
15	Global analysis of transcription kinetics during competence development in Streptococcus pneumoniae using high density DNA arrays. Molecular Microbiology, 2002, 36, 1279-1292.	1.2	101
16	Autism-associated 16p11.2 microdeletion impairs prefrontal functional connectivity in mouse and human. Brain, 2018, 141, 2055-2065.	3.7	100
17	Toward Neurosubtypes in Autism. Biological Psychiatry, 2020, 88, 111-128.	0.7	97
18	Functional Magnetic Resonance Imaging Reveals Different Neural Substrates for the Effects of Orexin-1 and Orexin-2 Receptor Antagonists. PLoS ONE, 2011, 6, e16406.	1.1	96

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19	Regional, Layer, and Cell-Type-Specific Connectivity of the Mouse Default Mode Network. Neuron, 2021, 109, 545-559.e8.	3.8	94
20	Intrinsic excitation-inhibition imbalance affects medial prefrontal cortex differently in autistic men versus women. ELife, 2020, 9, .	2.8	94
21	Accelerating the Evolution of Nonhuman Primate Neuroimaging. Neuron, 2020, 105, 600-603.	3.8	92
22	Altered functional connectivity networks in acallosal and socially impaired BTBR mice. Brain Structure and Function, 2016, 221, 941-954.	1.2	90
23	Deletion of Autism Risk Gene Shank3 Disrupts Prefrontal Connectivity. Journal of Neuroscience, 2019, 39, 5299-5310.	1.7	87
24	1,2,4-Triazol-3-yl-thiopropyl-tetrahydrobenzazepines:â€‰ A Series of Potent and Selective Dopamine D₃ Receptor Antagonists. Journal of Medicinal Chemistry, 2007, 50, 5076-5089.	2.9	84
25	Homozygous Loss of Autism-Risk Gene CNTNAP2 Results in Reduced Local and Long-Range Prefrontal Functional Connectivity. Cerebral Cortex, 2018, 28, 1141-1153.	1.6	82
26	Community structure and modularity in networks of correlated brain activity. Magnetic Resonance Imaging, 2008, 26, 914-920.	1.0	78
27	Animal Functional Magnetic Resonance Imaging: Trends and Path Toward Standardization. Frontiers in Neuroinformatics, 2019, 13, 78.	1.3	78
28	Network structure of the mouse brain connectome with voxel resolution. Science Advances, 2020, 6, .	4.7	77
29	A multimodality investigation of cerebral hemodynamics and autoregulation in pharmacological MRI. Magnetic Resonance Imaging, 2007, 25, 826-833.	1.0	76
30	Region-Specific Effects of Nicotine on Brain Activity: A Pharmacological MRI Study in the Drug-NaÃ¯ve Rat. Neuropsychopharmacology, 2006, 31, 1690-1703.	2.8	74
31	Selective dopamine D3 receptor antagonist SB-277011-A potentiates phMRI response to acute amphetamine challenge in the rat brain. Synapse, 2004, 54, 1-10.	0.6	73
32	Pharmacological Inhibition of ERK Signaling Rescues Pathophysiology and Behavioral Phenotype Associated with 16p11.2 Chromosomal Deletion in Mice. Journal of Neuroscience, 2018, 38, 6640-6652.	1.7	73
33	Brain-wide Mapping of Endogenous Serotonergic Transmission via Chemogenetic fMRI. Cell Reports, 2017, 21, 910-918.	2.9	70
34	Pharmacological modulation of functional connectivity: the correlation structure underlying the phMRI response to d-amphetamine modified by selective dopamine D3 receptor antagonist SB277011A. Magnetic Resonance Imaging, 2007, 25, 811-820.	1.0	69
35	Concurrent pharmacological MRI and in situ microdialysis of cocaine reveal a complex relationship between the central hemodynamic response and local dopamine concentration. NeuroImage, 2004, 23, 296-304.	2.1	66
36	mTOR-related synaptic pathology causes autism spectrum disorder-associated functional hyperconnectivity. Nature Communications, 2021, 12, 6084.	5.8	66

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37	A robust experimental protocol for pharmacological fMRI in rats and mice. Journal of Neuroscience Methods, 2012, 204, 9-18.	1.3	65
38	Differences in subcortico-cortical interactions identified from connectome and microcircuit models in autism. Nature Communications, 2021, 12, 2225.	5.8	63
39	Unique spatiotemporal fMRI dynamics in the awake mouse brain. Current Biology, 2022, 32, 631-644.e6.	1.8	63
40	Deletion of theSnord116/SNORD116Alters Sleep in Mice and Patients with Prader-Willi Syndrome. Sleep, 2016, 39, 637-644.	0.6	61
41	Dysfunctional dopaminergic neurotransmission in asocial BTBR mice. Translational Psychiatry, 2014, 4, e427-e427.	2.4	59
42	Pharmacological stimulation of NMDA receptors via co-agonist site suppresses fMRI response to phencyclidine in the rat. Psychopharmacology, 2008, 201, 273-284.	1.5	58
43	COMT Genetic Reduction Produces Sexually Divergent Effects on Cortical Anatomy and Working Memory in Mice and Humans. Cerebral Cortex, 2015, 25, 2529-2541.	1.6	57
44	Drugâ€“anaesthetic interaction in phMRI: the case of the psychotomimetic agent phencyclidine. Magnetic Resonance Imaging, 2008, 26, 999-1006.	1.0	54
45	Aberrant Somatosensory Processing and Connectivity in Mice LackingEngrailed-2. Journal of Neuroscience, 2019, 39, 1525-1538.	1.7	53
46	Community structure in networks of functional connectivity: Resolving functional organization in the rat brain with pharmacological MRI. NeuroImage, 2009, 47, 302-311.	2.1	52
47	Semi-automated registration-based anatomical labelling, voxel based morphometry and cortical thickness mapping of the mouse brain. Journal of Neuroscience Methods, 2016, 267, 62-73.	1.3	51
48	Functional connectivity in the pharmacologically activated brain: Resolving networks of correlated responses tod-amphetamine. Magnetic Resonance in Medicine, 2007, 57, 704-713.	1.9	50
49	Functional MRI using intravascular contrast agents: detrending of the relative cerebrovascular (rCBV) time course. Magnetic Resonance Imaging, 2003, 21, 1191-1200.	1.0	49
50	Effects of Omega-3 Fatty Acid Supplementation on Cognitive Functions and Neural Substrates: A Voxel-Based Morphometry Study in Aged Mice. Frontiers in Aging Neuroscience, 2016, 8, 38.	1.7	48
51	Free D-aspartate regulates neuronal dendritic morphology, synaptic plasticity, gray matter volume and brain activity in mammals. Translational Psychiatry, 2014, 4, e417-e417.	2.4	47
52	Brain mapping across 16 autism mouse models reveals a spectrum of functional connectivity subtypes. Molecular Psychiatry, 2021, 26, 7610-7620.	4.1	47
53	Increased fMRI connectivity upon chemogenetic inhibition of the mouse prefrontal cortex. Nature Communications, 2022, 13, 1056.	5.8	45
54	Modulation of Fronto-Cortical Activity by Modafinil: A Functional Imaging and Fos Study in the Rat. Neuropsychopharmacology, 2012, 37, 822-837.	2.8	44

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55	The Knockout of Synapsin II in Mice Impairs Social Behavior and Functional Connectivity Generating an ASD-like Phenotype. Cerebral Cortex, 2017, 27, 5014-5023.	1.6	43
56	A role for D-aspartate oxidase in schizophrenia and in schizophrenia-related symptoms induced by phencyclidine in mice. Translational Psychiatry, 2015, 5, e512-e512.	2.4	41
57	Serotonergic Signaling Controls Input-Specific Synaptic Plasticity at Striatal Circuits. Neuron, 2018, 98, 801-816.e7.	3.8	40
58	Brain reinforcement system function is ghrelin dependent: studies in the rat using pharmacological fMRI and intracranial selfâ€stimulation. Addiction Biology, 2012, 17, 908-919.	1.4	39
59	Differential Effect of Orexin-1 and CRF-1 Antagonism on Stress Circuits: a fMRI Study in the Rat with the Pharmacological Stressor Yohimbine. Neuropsychopharmacology, 2013, 38, 2120-2130.	2.8	38
60	Neuroimaging Evidence of Altered Fronto-Cortical and Striatal Function after Prolonged Cocaine Self-Administration in the Rat. Neuropsychopharmacology, 2011, 36, 2431-2440.	2.8	37
61	Reduced limbic metabolism and fronto-cortical volume in rats vulnerable to alcohol addiction. NeuroImage, 2013, 69, 112-119.	2.1	36
62	Intranasal Oxytocin and Vasopressin Modulate Divergent Brainwide Functional Substrates. Neuropsychopharmacology, 2017, 42, 1420-1434.	2.8	35
63	Study-level wavelet cluster analysis and data-driven signal models in pharmacological MRI. Journal of Neuroscience Methods, 2007, 159, 346-360.	1.3	34
64	Dysfunctional d-aspartate metabolism in BTBR mouse model of idiopathic autism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140531.	1.1	34
65	Structural covariance networks in the mouse brain. NeuroImage, 2016, 129, 55-63.	2.1	32
66	Adolescence is the starting point of sex-dichotomous COMT genetic effects. Translational Psychiatry, 2017, 7, e1141-e1141.	2.4	32
67	Functional connectivity in the rat brain: a complex network approach. Magnetic Resonance Imaging, 2010, 28, 1200-1209.	1.0	30
68	Antagonism at serotonin 5-HT2A receptors modulates functional activity of frontohippocampal circuit. Psychopharmacology, 2010, 209, 37-50.	1.5	29
69	Hierarchical organization of functional connectivity in the mouse brain: a complex network approach. Scientific Reports, 2016, 6, 32060.	1.6	28
70	Serotonin depletion causes valproate-responsive manic-like condition and increased hippocampal neuroplasticity that are reversed by stress. Scientific Reports, 2018, 8, 11847.	1.6	26
71	Can Mouse Imaging Studies Bring Order to Autism Connectivity Chaos?. Frontiers in Neuroscience, 2016, 10, 484.	1.4	23
72	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. Neuron, 2022, 110, 16-20.	3.8	22

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73	Brain penetration of local anaesthetics in the rat: Implications for experimental neuroscience. Journal of Neuroscience Methods, 2010, 186, 143-149.	1.3	21
74	The M1/M4 preferring muscarinic agonist xanomeline modulates functional connectivity and NMDAR antagonist-induced changes in the mouse brain. Neuropsychopharmacology, 2021, 46, 1194-1206.	2.8	21
75	Functional magnetic resonance mapping of intracerebroventricular infusion of a neuroactive peptide in the anaesthetised rat. Journal of Neuroscience Methods, 2005, 142, 115-124.	1.3	20
76	The Efficacy of Sodium Channel Blockers to Prevent Phencyclidine-Induced Cognitive Dysfunction in the Rat: Potential for Novel Treatments for Schizophrenia. Journal of Pharmacology and Experimental Therapeutics, 2011, 338, 100-113.	1.3	18
77	USPIOâ€loaded red blood cells as a biomimetic MR contrast agent: a relaxometric study. Contrast Media and Molecular Imaging, 2014, 9, 229-236.	0.4	18
78	Acute and Repeated Intranasal Oxytocin Differentially Modulate Brain-wide Functional Connectivity. Neuroscience, 2020, 445, 83-94.	1.1	18
79	Abnormal whisker-dependent behaviors and altered cortico-hippocampal connectivity in Shank3bâ^'/â^' mice. Cerebral Cortex, 2022, 32, 3042-3056.	1.6	16
80	Neuromapping techniques in drug discovery: pharmacological MRI for the assessment of novel antipsychotics. Expert Opinion on Drug Discovery, 2012, 7, 1071-1082.	2.5	15
81	Gd-doped BNNTs asT2-weighted MRI contrast agents. Nanotechnology, 2013, 24, 315101.	1.3	13
82	Automated multi-subject fiber clustering of mouse brain using dominant sets. Frontiers in Neuroinformatics, 2014, 8, 87.	1.3	13
83	Functional and Pharmacological MRI in Understanding Brain Function at a Systems Level. Current Topics in Behavioral Neurosciences, 2011, 7, 323-357.	0.8	12
84	Differential Effects of Brain Disorders on Structural and Functional Connectivity. Frontiers in Neuroscience, 2017, 10, 605.	1.4	12
85	Group-Wise Functional Community Detection through Joint Laplacian Diagonalization. Lecture Notes in Computer Science, 2014, 17, 708-715.	1.0	12
86	Effects of cocaine on blood flow and oxygen metabolism in the rat brain: implications for phMRI. Magnetic Resonance Imaging, 2007, 25, 795-800.	1.0	11
87	Inhibition of glycine transporter-1 reduces cue-induced nicotine-seeking, but does not promote extinction of conditioned nicotine cue responding in the rat. Addiction Biology, 2013, 18, 800-811.	1.4	10
88	Somatosensory cortex hyperconnectivity and impaired whisker-dependent responses in Cntnap2â^'/â^' mice. Neurobiology of Disease, 2022, 169, 105742.	2.1	10
89	Automatic White Matter Fiber Clustering Using Dominant Sets. , 2013, , .		8
90	MultiLink Analysis: Brain Network Comparison via Sparse Connectivity Analysis. Scientific Reports, 2019, 9, 65.	1.6	8

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91	phMRI, neurochemical and behavioral responses to psychostimulants distinguishing genetically selected alcoholâ€preferring from genetically heterogenous rats. Addiction Biology, 2019, 24, 981-993.	1.4	8
92	Repeated dexamphetamine treatment alters the dopaminergic system and increases the phMRI response to methylphenidate. PLoS ONE, 2017, 12, e0172776.	1.1	7
93	Voxel Scale Complex Networks of Functional Connectivity in the Rat Brain: Neurochemical State Dependence of Global and Local Topological Properties. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-15.	0.7	6
94	Large-scale analysis of neuroimaging data on commercial clouds with content-aware resource allocation strategies. International Journal of High Performance Computing Applications, 2015, 29, 473-488.	2.4	5
95	Mouse neuroimaging phenotyping in the cloud. , 2012, , .		2
96	Automatic Tractography Analysis through Sparse Networks in Case-Control Studies. , 2012, , .		2
97	A Neural Switch for Active and Passive Fear. Neuron, 2012, 73, 854.	3.8	2
98	Efficient Parametric Imaging with GPU Computing. Biophysical Journal, 2017, 112, 583a-584a.	0.2	1
99	Cortical Silencing Results in Paradoxical fMRI Overconnectivity. SSRN Electronic Journal, 0, , .	0.4	1
100	Atlas-free connectivity analysis driven by white matter structure. , 2017, , .		0
101	Can Single Shell Diffusion MRI Detect Synaptic Plasticity in Mice?. , 2019, , .		0