

Marco Catani

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

21,870
citations

23567

58
h-index

22832

112
g-index

129
all docs

129
docs citations

129
times ranked

18649
citing authors

#	ARTICLE	IF	CITATIONS
1	Perisylvian language networks of the human brain. <i>Annals of Neurology</i> , 2005, 57, 8-16.	5.3	1,684
2	Virtual in Vivo Interactive Dissection of White Matter Fasciculi in the Human Brain. <i>NeuroImage</i> , 2002, 17, 77-94.	4.2	1,515
3	A diffusion tensor imaging tractography atlas for virtual in vivo dissections. <i>Cortex</i> , 2008, 44, 1105-1132.	2.4	1,441
4	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	12.8	956
5	A lateralized brain network for visuospatial attention. <i>Nature Neuroscience</i> , 2011, 14, 1245-1246.	14.8	890
6	Occipito-temporal connections in the human brain. <i>Brain</i> , 2003, 126, 2093-2107.	7.6	829
7	The rises and falls of disconnection syndromes. <i>Brain</i> , 2005, 128, 2224-2239.	7.6	787
8	The arcuate fasciculus and the disconnection theme in language and aphasia: History and current state. <i>Cortex</i> , 2008, 44, 953-961.	2.4	656
9	Short frontal lobe connections of the human brain. <i>Cortex</i> , 2012, 48, 273-291.	2.4	645
10	Atlasing location, asymmetry and inter-subject variability of white matter tracts in the human brain with MR diffusion tractography. <i>NeuroImage</i> , 2011, 54, 49-59.	4.2	576
11	Symmetries in human brain language pathways correlate with verbal recall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17163-17168.	7.1	558
12	Monkey to human comparative anatomy of the frontal lobe association tracts. <i>Cortex</i> , 2012, 48, 82-96.	2.4	546
13	Plasma antioxidants are similarly depleted in mild cognitive impairment and in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2003, 24, 915-919.	3.1	530
14	A revised limbic system model for memory, emotion and behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 1724-1737.	6.1	529
15	Marked Decrease in Plasma Antioxidants in Aged Osteoporotic Women: Results of a Cross-Sectional Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 1523-1527.	3.6	472
16	A novel frontal pathway underlies verbal fluency in primary progressive aphasia. <i>Brain</i> , 2013, 136, 2619-2628.	7.6	399
17	Diffusion-based tractography in neurological disorders: concepts, applications, and future developments. <i>Lancet Neurology</i> , 2008, 7, 715-727.	10.2	360
18	Validation of the Five-Item Geriatric Depression Scale in Elderly Subjects in Three Different Settings. <i>Journal of the American Geriatrics Society</i> , 2003, 51, 694-698.	2.6	334

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19	A modified damped Richardsonâ€“Lucy algorithm to reduce isotropic background effects in spherical deconvolution. <i>NeuroImage</i> , 2010, 49, 1446-1458.	4.2	289
20	Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks. <i>Brain</i> , 2014, 137, 2027-2039.	7.6	270
21	Can spherical deconvolution provide more information than fiber orientations? Hindrance modulated orientational anisotropy, a true-tract specific index to characterize white matter diffusion. <i>Human Brain Mapping</i> , 2013, 34, 2464-2483.	3.6	260
22	Altered cerebellar feedback projections in Asperger syndrome. <i>NeuroImage</i> , 2008, 41, 1184-1191.	4.2	259
23	Altered connections on the road to psychopathy. <i>Molecular Psychiatry</i> , 2009, 14, 946-953.	7.9	245
24	Brain Anatomy and Its Relationship to Behavior in Adults With Autism Spectrum Disorder. <i>Archives of General Psychiatry</i> , 2012, 69, 195.	12.3	238
25	Altered white matter connectivity as a neural substrate for social impairment in Autism Spectrum Disorder. <i>Cortex</i> , 2015, 62, 158-181.	2.4	233
26	Word learning is mediated by the left arcuate fasciculus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13168-13173.	7.1	228
27	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. <i>Human Brain Mapping</i> , 2006, 27, 230-238.	3.6	224
28	Beyond cortical localization in clinico-anatomical correlation. <i>Cortex</i> , 2012, 48, 1262-1287.	2.4	215
29	Lymphocyte Oxidative DNA Damage and Plasma Antioxidants in Alzheimer Disease. <i>Archives of Neurology</i> , 2002, 59, 794.	4.5	212
30	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets. <i>NeuroImage</i> , 2002, 17, 592-617.	4.2	208
31	The anatomy of fronto-occipital connections from early blunt dissections to contemporary tractography. <i>Cortex</i> , 2014, 56, 73-84.	2.4	204
32	Diffusion tensor magnetic resonance imaging tractography in cognitive disorders. <i>Current Opinion in Neurology</i> , 2006, 19, 599-606.	3.6	175
33	Brain and behaviour in children with 22q11.2 deletion syndrome: a volumetric and voxel-based morphometry MRI study. <i>Brain</i> , 2006, 129, 1218-1228.	7.6	165
34	The anatomy of extended limbic pathways in Asperger syndrome: A preliminary diffusion tensor imaging tractography study. <i>NeuroImage</i> , 2009, 47, 427-434.	4.2	161
35	From hodology to function. <i>Brain</i> , 2007, 130, 602-605.	7.6	156
36	Voxel-based meta-analysis of regional white-matter volume differences in autism spectrum disorder versus healthy controls. <i>Psychological Medicine</i> , 2011, 41, 1539-1550.	4.5	152

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37	Tract-specific anisotropy measurements in diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006, 146, 73-82.	1.8	148
38	What is a disconnection syndrome?. <i>Cortex</i> , 2008, 44, 911-913.	2.4	148
39	Multimodal Voxel-Based Meta-Analysis of White Matter Abnormalities in Obsessive-Compulsive Disorder. <i>Neuropsychopharmacology</i> , 2014, 39, 1547-1557.	5.4	143
40	A model for Social Communication And Language Evolution and Development (SCALED). <i>Current Opinion in Neurobiology</i> , 2014, 28, 165-171.	4.2	140
41	Functional segregation and integration within fronto-parietal networks. <i>NeuroImage</i> , 2017, 146, 367-375.	4.2	133
42	1H-MR spectroscopy differentiates mild cognitive impairment from normal brain aging. <i>NeuroReport</i> , 2001, 12, 2315-2317.	1.2	131
43	Elderly Patients With Cognitive Impairment Have a High Risk for Functional Decline During Hospitalization: The GIFA Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2005, 60, 1576-1580.	3.6	119
44	Frontal networks in adults with autism spectrum disorder. <i>Brain</i> , 2016, 139, 616-630.	7.6	118
45	Altered Integrity of Perisylvian Language Pathways in Schizophrenia: Relationship to Auditory Hallucinations. <i>Biological Psychiatry</i> , 2011, 70, 1143-1150.	1.3	113
46	Beyond localization: from hodology to function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 767-779.	4.0	111
47	Structural human brain networks. <i>Current Opinion in Neurology</i> , 2012, 25, 1.	3.6	108
48	Frontotemporal white-matter microstructural abnormalities in adolescents with conduct disorder: a diffusion tensor imaging study. <i>Psychological Medicine</i> , 2013, 43, 401-411.	4.5	96
49	A little man of some importance. <i>Brain</i> , 2017, 140, 3055-3061.	7.6	96
50	Spatial normalization and averaging of diffusion tensor MRI data sets. <i>NeuroImage</i> , 2002, 17, 592-617.	4.2	96
51	White matter connectivity in children with autism spectrum disorders: a tract-based spatial statistics study. <i>BMC Neurology</i> , 2012, 12, 148.	1.8	95
52	Neural self-representation in autistic women and association with "compensatory camouflaging"™. <i>Autism</i> , 2019, 23, 1210-1223.	4.1	86
53	Impaired Communication Between the Motor and Somatosensory Homunculus Is Associated With Poor Manual Dexterity in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 81, 211-219.	1.3	77
54	Diffusion tensor MRI of the corpus callosum and cognitive function in adults born preterm. <i>NeuroReport</i> , 2009, 20, 424-428.	1.2	76

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55	Frontoparietal Tracts Linked to Lateralized Hand Preference and Manual Specialization. <i>Cerebral Cortex</i> , 2018, 28, 1-13.	2.9	75
56	Short parietal lobe connections of the human and monkey brain. <i>Cortex</i> , 2017, 97, 339-357.	2.4	74
57	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. <i>American Journal of Geriatric Psychiatry</i> , 2005, 13, 1092-1099.	1.2	71
58	Connectomic approaches before the connectome. <i>NeuroImage</i> , 2013, 80, 2-13.	4.2	65
59	Anatomical evidence of an indirect pathway for word repetition. <i>Neurology</i> , 2020, 94, e594-e606.	1.1	65
60	Unsupervised data-driven stratification of mentalizing heterogeneity in autism. <i>Scientific Reports</i> , 2016, 6, 35333.	3.3	60
61	Comment on "The Geometric Structure of the Brain Fiber Pathways" <i>Science</i> , 2012, 337, 1605-1605.	12.6	58
62	Prenatal stress and limbic-prefrontal white matter microstructure in children aged 6-9 years: a preliminary diffusion tensor imaging study. <i>World Journal of Biological Psychiatry</i> , 2014, 15, 346-352.	2.6	58
63	Lesion mapping in acute stroke aphasia and its implications for recovery. <i>Neuropsychologia</i> , 2018, 115, 88-100.	1.6	56
64	Axonal injury within language network in primary progressive aphasia. <i>Annals of Neurology</i> , 2003, 53, 242-247.	5.3	53
65	Auditory Verbal Hallucinations and Brain Dysconnectivity in the Perisylvian Language Network: A Multimodal Investigation. <i>Schizophrenia Bulletin</i> , 2015, 41, 192-200.	4.3	53
66	Weighing brain activity with the balance: Angelo Mosso's original manuscripts come to light. <i>Brain</i> , 2014, 137, 621-633.	7.6	51
67	Microstructural Organization of Cerebellar Tracts in Schizophrenia. <i>Biological Psychiatry</i> , 2009, 66, 1067-1069.	1.3	49
68	MR Diffusion Histology and Micro-Tractography Reveal Mesoscale Features of the Human Cerebellum. <i>Cerebellum</i> , 2013, 12, 923-931.	2.5	49
69	Age-Related Differences and Heritability of the Perisylvian Language Networks. <i>Journal of Neuroscience</i> , 2015, 35, 12625-12634.	3.6	49
70	OUP accepted manuscript. <i>Brain</i> , 2019, 142, 2451-2465.	7.6	49
71	The impact of region-specific leukoaraiosis on working memory deficits in dementia. <i>Neuropsychologia</i> , 2008, 46, 2597-2601.	1.6	45
72	Double-dissociation between the mechanism leading to impulsivity and inattention in Attention Deficit Hyperactivity Disorder: A resting-state functional connectivity study. <i>Cortex</i> , 2017, 86, 290-302.	2.4	45

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73	Cortical Network for Gaze Control in Humans Revealed Using Multimodal MRI. <i>Cerebral Cortex</i> , 2012, 22, 765-775.	2.9	44
74	Neural organization of ventral white matter tracts parallels the initial steps of reading development: A DTI tractography study. <i>Brain and Language</i> , 2018, 183, 32-40.	1.6	44
75	Diffusion Tensor Imaging in Sporadic and Familial (D90A SOD1) Forms of Amyotrophic Lateral Sclerosis. <i>Archives of Neurology</i> , 2009, 66, 109-115.	4.5	42
76	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. <i>American Journal of Geriatric Psychiatry</i> , 2005, 13, 1092-1099.	1.2	42
77	Frontotemporal networks and behavioral symptoms in primary progressive aphasia. <i>Neurology</i> , 2016, 86, 1393-1399.	1.1	41
78	Heritability of the limbic networks. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 746-757.	3.0	41
79	Distinct white matter alterations following severe stroke. <i>Neurology</i> , 2017, 88, 1546-1555.	1.1	40
80	Visualization of the deep cerebellar nuclei using quantitative T1 and T2-magnetic resonance imaging at 3T. <i>NeuroImage</i> , 2007, 37, 1260-1266.	4.2	38
81	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets. <i>NeuroImage</i> , 2002, 17, 592-617.	4.2	38
82	Differences in Frontal Network Anatomy Across Primate Species. <i>Journal of Neuroscience</i> , 2020, 40, 2094-2107.	3.6	37
83	The anatomy of the human frontal lobe. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2019, 163, 95-122.	1.8	35
84	Proton Magnetic Resonance Spectroscopy Reveals Similar White Matter Biochemical Changes in Patients with Chronic Hypertension and Early Alzheimer's Disease. <i>Journal of the American Geriatrics Society</i> , 2002, 50, 1707-1710.	2.6	34
85	Sex differences in frontal lobe connectivity in adults with autism spectrum conditions. <i>Translational Psychiatry</i> , 2017, 7, e1090-e1090.	4.8	33
86	A Lateralized Brain Network for Visuo-Spatial Attention. <i>Nature Precedings</i> , 2011, , .	0.1	32
87	Syntactic processing as a marker for cognitive impairment in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2016, 17, 69-76.	1.7	31
88	Rapidly Progressive Aphasic Dementia with Motor Neuron Disease: A Distinctive Clinical Entity. <i>Dementia and Geriatric Cognitive Disorders</i> , 2004, 17, 21-28.	1.5	30
89	Anatomy of the dorsal default-mode network in conduct disorder: Association with callous-unemotional traits. <i>Developmental Cognitive Neuroscience</i> , 2018, 30, 87-92.	4.0	30
90	Elucidating neuroanatomical alterations in the at risk mental state and first episode psychosis: A combined voxel-based morphometry and voxel-based cortical thickness study. <i>Schizophrenia Research</i> , 2013, 150, 505-511.	2.0	29

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91	At the forefront of clinical neuroscience. <i>Cortex</i> , 2012, 48, 1-6.	2.4	27
92	Pure word deafness following left temporal damage: Behavioral and neuroanatomical evidence from a new case. <i>Cortex</i> , 2017, 97, 240-254.	2.4	27
93	An empirical comparison of different approaches for combining multimodal neuroimaging data with support vector machine. <i>Frontiers in Neuroscience</i> , 2014, 8, 189.	2.8	26
94	The white matter of the human cerebrum: Part I The occipital lobe by Heinrich Sachs. <i>Cortex</i> , 2015, 62, 182-202.	2.4	24
95	Neuroconnectivity and valproic acid: The myelin hypothesis. <i>Neuroscience and Biobehavioral Reviews</i> , 2012, 36, 1848-1856.	6.1	22
96	Journal Club: Default-mode network connectivity in cognitively unimpaired patients with Parkinson disease. <i>Neurology</i> , 2013, 81, e172-5.	1.1	19
97	Aripiprazole in the treatment of challenging behaviour in adults with autism spectrum disorder. <i>Psychopharmacology</i> , 2012, 223, 357-360.	3.1	15
98	Cathepsin D Polymorphism in Italian Elderly Subjects with Sporadic Late-Onset Alzheimer's Disease. <i>Dementia and Geriatric Cognitive Disorders</i> , 2003, 16, 151-155.	1.5	13
99	On "the study of the nervous system and behaviour". <i>Cortex</i> , 2010, 46, 106-109.	2.4	12
100	Imaging white-matter pathways of the auditory system with diffusion imaging tractography. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2015, 129, 277-288.	1.8	11
101	University students with attention deficit hyperactivity disorder (ADHD): a consensus statement from the UK Adult ADHD Network (UKAAN). <i>BMC Psychiatry</i> , 2022, 22, 292.	2.6	10
102	The clinical anatomy of the temporal and parietal lobes. <i>Cortex</i> , 2017, 97, 160-163.	2.4	7
103	Superficial Siderosis of the Central Nervous System: A 70-Year-Old Man with Ataxia, Depression and Visual Deficits. <i>Gerontology</i> , 2001, 47, 93-95.	2.8	6
104	New section: <i>Cortex Clinical Neuroanatomy</i> . <i>Cortex</i> , 2010, 46, 1.	2.4	5
105	Does neuroanatomy account for superior temporal dysfunction in early psychosis? A multimodal MRI investigation. <i>Journal of Psychiatry and Neuroscience</i> , 2015, 40, 100-7.	2.4	5
106	Grey Matter Leonardo da Vinci: a genius driven to distraction. <i>Brain</i> , 2019, 142, 1842-1846.	7.6	5
107	The medial occipital longitudinal tract supports early stage encoding of visuospatial information. <i>Communications Biology</i> , 2022, 5, 318.	4.4	5
108	Lateralisation of the Arcuate Fasciculus Predicts Aphasia Recovery at 6 Months. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 23, 164-166.	0.5	4

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109	Risks and pitfalls for the management of refeeding syndrome in psychiatric patients. <i>Psychiatric Bulletin</i> , 2007, 31, 209-211.	0.3	3
110	Contribution of Diffusion Tractography to the Anatomy of Language. , 2014, , 511-529.		3
111	The Connectional Anatomy of Language. , 2009, , 403-413.		2
112	Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications. , 2011, , 61-75.		2
113	Clinical neuroanatomy, five years on: Mini-Geschwinds with fancy toys?. <i>Cortex</i> , 2015, 73, A3-A6.	2.4	1
114	Neuroanatomical Bases of Human Behavior. , 2022, , 60-64.		1
115	The Cerebral Cortex and Complex Cerebral Functions. , 2020, , 831-952.		1
116	Birth of the blues: emotional sound processing in infants exposed to prenatal maternal depression. <i>Psychological Medicine</i> , 0, , 1-7.	4.5	1
117	Plasma Antioxidants and Oxidative DNA Damage in Lymphocytes from Normal Aged People and Alzheimer's Disease Patients. , 0, , 363-369.		0
118	MEMORY ABILITIES IN HEALTHY ELDERLY SUBJECTS: A FUNCTIONAL MAGNETIC RESONANCE IMAGING STUDY. , 2002, , .		0
119	Brain and cognitive asymmetry in clinical disorders. <i>Cortex</i> , 2020, 124, A1-A2.	2.4	0
120	Notes on Techniques. , 2020, , 127-167.		0
121	Lobes and Asymmetry: the end of a cycle. <i>Cortex</i> , 2022, 151, 294-295.	2.4	0