

Flavio Dell'Acqua

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

9,501
citations

71102
41
h-index

95266
68
g-index

79
all docs

79
docs citations

79
times ranked

10940
citing authors

#	ARTICLE	IF	CITATIONS
1	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	12.8	956
2	A lateralized brain network for visuospatial attention. Nature Neuroscience, 2011, 14, 1245-1246.	14.8	890
3	Short frontal lobe connections of the human brain. Cortex, 2012, 48, 273-291.	2.4	645
4	Atlasing location, asymmetry and inter-subject variability of white matter tracts in the human brain with MR diffusion tractography. NeuroImage, 2011, 54, 49-59.	4.2	576
5	Monkey to human comparative anatomy of the frontal lobe association tracts. Cortex, 2012, 48, 82-96.	2.4	546
6	A revised limbic system model for memory, emotion and behaviour. Neuroscience and Biobehavioral Reviews, 2013, 37, 1724-1737.	6.1	529
7	A novel frontal pathway underlies verbal fluency in primary progressive aphasia. Brain, 2013, 136, 2619-2628.	7.6	399
8	Atlasing the frontal lobe connections and their variability due to age and education: a spherical deconvolution tractography study. Brain Structure and Function, 2016, 221, 1751-1766.	2.3	307
9	A modified damped Richardsonâ€“Lucy algorithm to reduce isotropic background effects in spherical deconvolution. NeuroImage, 2010, 49, 1446-1458.	4.2	289
10	Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks. Brain, 2014, 137, 2027-2039.	7.6	270
11	Can spherical deconvolution provide more information than fiber orientations? Hindrance modulated orientational anisotropy, a true-tract specific index to characterize white matter diffusion. Human Brain Mapping, 2013, 34, 2464-2483.	3.6	260
12	Word learning is mediated by the left arcuate fasciculus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13168-13173.	7.1	228
13	Beyond cortical localization in clinico-anatomical correlation. Cortex, 2012, 48, 1262-1287.	2.4	215
14	Fronto-striatal circuitry and inhibitory control in autism: Findings from diffusion tensor imaging tractography. Cortex, 2012, 48, 183-193.	2.4	208
15	The anatomy of fronto-occipital connections from early blunt dissections to contemporary tractography. Cortex, 2014, 56, 73-84.	2.4	204
16	A Model-Based Deconvolution Approach to Solve Fiber Crossing in Diffusion-Weighted MR Imaging. IEEE Transactions on Biomedical Engineering, 2007, 54, 462-472.	4.2	165
17	The anatomy of extended limbic pathways in Asperger syndrome: A preliminary diffusion tensor imaging tractography study. NeuroImage, 2009, 47, 427-434.	4.2	161
18	Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by 19F- and diffusion-MRI. Biomaterials, 2012, 33, 2858-2871.	11.4	155

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19	White matter connections of the supplementary motor area in humans. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 1377-1385.	1.9	151
20	Functional segregation and integration within fronto-parietal networks. NeuroImage, 2017, 146, 367-375.	4.2	133
21	White matter integrity as a predictor of response to treatment in first episode psychosis. Brain, 2014, 137, 172-182.	7.6	130
22	Modelling white matter with spherical deconvolution: How and why?. NMR in Biomedicine, 2019, 32, e3945.	2.8	127
23	Frontal networks in adults with autism spectrum disorder. Brain, 2016, 139, 616-630.	7.6	118
24	Structural human brain networks. Current Opinion in Neurology, 2012, 25, 1.	3.6	108
25	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 260-270.	1.5	82
26	Impaired Communication Between the Motor and Somatosensory Homunculus Is Associated With Poor Manual Dexterity in Autism Spectrum Disorder. Biological Psychiatry, 2017, 81, 211-219.	1.3	77
27	Frontoparietal Tracts Linked to Lateralized Hand Preference and Manual Specialization. Cerebral Cortex, 2018, 28, 1-13.	2.9	75
28	Short parietal lobe connections of the human and monkey brain. Cortex, 2017, 97, 339-357.	2.4	74
29	Diffusion Tensor Imaging of Parkinson's Disease, Multiple System Atrophy and Progressive Supranuclear Palsy: A Tract-Based Spatial Statistics Study. PLoS ONE, 2014, 9, e112638.	2.5	72
30	Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth. Cerebral Cortex, 2016, 26, 1322-1335.	2.9	69
31	Connectomic approaches before the connectome. NeuroImage, 2013, 80, 2-13.	4.2	65
32	Anatomical evidence of an indirect pathway for word repetition. Neurology, 2020, 94, e594-e606.	1.1	65
33	Comment on "The Geometric Structure of the Brain Fiber Pathways". Science, 2012, 337, 1605-1605.	12.6	58
34	Prenatal stress and limbic-prefrontal white matter microstructure in children aged 6-9 years: a preliminary diffusion tensor imaging study. World Journal of Biological Psychiatry, 2014, 15, 346-352.	2.6	58
35	Whole-brain ex-vivo quantitative MRI of the cuprizone mouse model. PeerJ, 2016, 4, e2632.	2.0	53
36	No Differences in Hippocampal Volume between Carriers and Non-Carriers of the ApoE ϵ 4 and ϵ 2 Alleles in Young Healthy Adolescents. Journal of Alzheimer's Disease, 2014, 40, 37-43.	2.6	51

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37	Asymmetry and Structure of the Fronto-Parietal Networks Underlie Visuomotor Processing in Humans. <i>Cerebral Cortex</i> , 2017, 27, bhv348.	2.9	51
38	The role of the frontal aslant tract and premotor connections in visually guided hand movements. <i>NeuroImage</i> , 2017, 146, 419-428.	4.2	50
39	MR Diffusion Histology and Micro-Tractography Reveal Mesoscale Features of the Human Cerebellum. <i>Cerebellum</i> , 2013, 12, 923-931.	2.5	49
40	Age-Related Differences and Heritability of the Perisylvian Language Networks. <i>Journal of Neuroscience</i> , 2015, 35, 12625-12634.	3.6	49
41	Emotional detachment in psychopathy: Involvement of dorsal default-mode connections. <i>Cortex</i> , 2015, 62, 11-19.	2.4	47
42	Connectomic correlates of response to treatment in first-episode psychosis. <i>Brain</i> , 2017, 140, 487-496.	7.6	47
43	Cross-talk connections underlying dorsal and ventral stream integration during hand actions. <i>Cortex</i> , 2018, 103, 224-239.	2.4	44
44	Frontotemporal networks and behavioral symptoms in primary progressive aphasia. <i>Neurology</i> , 2016, 86, 1393-1399.	1.1	41
45	Heritability of the limbic networks. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 746-757.	3.0	41
46	Towards robust and replicable sex differences in the intrinsic brain function of autism. <i>Molecular Autism</i> , 2021, 12, 19.	4.9	40
47	Disentangling the relation between left temporoparietal white matter and reading: A spherical deconvolution tractography study. <i>Human Brain Mapping</i> , 2015, 36, 3273-3287.	3.6	39
48	Reproducibility, reliability and variability of FA and MD in the older healthy population: A test-retest multiparametric analysis. <i>NeuroImage: Clinical</i> , 2020, 26, 102168.	2.7	37
49	Differences in Frontal Network Anatomy Across Primate Species. <i>Journal of Neuroscience</i> , 2020, 40, 2094-2107.	3.6	37
50	Atypical Brain Asymmetry in Autism—A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 802-812.	1.5	36
51	Very Early Brain Damage Leads to Remodeling of the Working Memory System in Adulthood: A Combined fMRI/Tractography Study. <i>Journal of Neuroscience</i> , 2015, 35, 15787-15799.	3.6	34
52	Anatomic Connections of the Subgenual Cingulate Region. <i>Neurosurgery</i> , 2016, 79, 465-472.	1.1	34
53	A Lateralized Brain Network for Visuo-Spatial Attention. <i>Nature Precedings</i> , 2011, , .	0.1	32
54	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

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55	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
56	Noise Correction on Rician Distributed Data for Fibre Orientation Estimators. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1242-1251.	8.9	24
57	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 813-824.	1.5	21
58	Tract Based Spatial Statistic Reveals No Differences in White Matter Microstructural Organization between Carriers and Non-Carriers of the APOE ϵ 4 and ϵ 2 Alleles in Young Healthy Adolescents. <i>Journal of Alzheimer's Disease</i> , 2015, 47, 977-984.	2.6	17
59	Generalized Richardson-Lucy (GRL) for analyzing multi-shell diffusion MRI data. <i>NeuroImage</i> , 2020, 218, 116948.	4.2	16
60	A Whole-Brain Investigation of White Matter Microstructure in Adolescents with Conduct Disorder. <i>PLoS ONE</i> , 2016, 11, e0155475.	2.5	16
61	Atypical measures of diffusion at the grayâ€white matter boundary in autism spectrum disorder in adulthood. <i>Human Brain Mapping</i> , 2021, 42, 467-484.	3.6	11
62	Altered corticospinal microstructure and motor cortex excitability in gliomas: an advanced tractography and transcranial magnetic stimulation study. <i>Journal of Neurosurgery</i> , 2021, 134, 1368-1376.	1.6	10
63	Diffusion in realistic biophysical systems can lead to aliasing effects in diffusion spectrum imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1837-1847.	3.0	7
64	Drum training induces Âlong-term plasticity in the cerebellum and connected cortical thickness. <i>Scientific Reports</i> , 2020, 10, 10116.	3.3	7
65	Superior longitudinal fasciculus (SLF) I and II: an anatomical and functional review. <i>Journal of Neurosurgical Sciences</i> , 2022, 65, .	0.6	7
66	The medial occipital longitudinal tract supports early stage encoding of visuospatial information. <i>Communications Biology</i> , 2022, 5, 318.	4.4	5
67	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
68	Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications. , 2011, , 61-75.		2
69	IC-P068: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS. , 2014, 10, P37-P38.		1
70	P1-243: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS. , 2014, 10, P394-P395.		0