Flavio Dell'Acqua

List of Publications by Year
in descending order

70 papers	9,501 citations	71097 41 h-index	95259 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 Parkinsonâ€™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 â€œThe Geometric Structure of the Brain Fiber Pathwaysâ€. Science, 2012, 337, 1605-1605.	12.6	58
34	Prenatal stress and limbic-prefrontal white matter microstructure in children aged 6â€“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 Îµ4 and Îµ2 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. Cerebral Cortex, 2017, 27, bhv348.	2.9	51
38	The role of the frontal aslant tract and premotor connections in visually guided hand movements. NeuroImage, 2017, 146, 419-428.	4.2	50
39	MR Diffusion Histology and Micro-Tractography Reveal Mesoscale Features of the Human Cerebellum. Cerebellum, 2013, 12, 923-931.	2.5	49
40	Age-Related Differences and Heritability of the Perisylvian Language Networks. Journal of Neuroscience, 2015, 35, 12625-12634.	3.6	49
41	Emotional detachment in psychopathy: Involvement of dorsal default-mode connections. Cortex, 2015, 62, 11-19.	2.4	47
42	Connectomic correlates of response to treatment in first-episode psychosis. Brain, 2017, 140, 487-496.	7.6	47
43	Cross-talk connections underlying dorsal and ventral stream integration during hand actions. Cortex, 2018, 103, 224-239.	2.4	44
44	Frontotemporal networks and behavioral symptoms in primary progressive aphasia. Neurology, 2016, 86, 1393-1399.	1.1	41
45	Heritability of the limbic networks. Social Cognitive and Affective Neuroscience, 2016, 11, 746-757.	3.0	41
46	Towards robust and replicable sex differences in the intrinsic brain function of autism. Molecular Autism, 2021, 12, 19.	4.9	40
47	Disentangling the relation between left temporoparietal white matter and reading: A spherical deconvolution tractography study. Human Brain Mapping, 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. NeuroImage: Clinical, 2020, 26, 102168.	2.7	37
49	Differences in Frontal Network Anatomy Across Primate Species. Journal of Neuroscience, 2020, 40, 2094-2107.	3.6	37
50	Atypical Brain Asymmetry in Autismâ€"A Candidate for Clinically Meaningful Stratification. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 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. Journal of Neuroscience, 2015, 35, 15787-15799.	3.6	34
52	Anatomic Connections of the Subgenual Cingulate Region. Neurosurgery, 2016, 79, 465-472.	1.1	34
53	A Lateralized Brain Network for Visuo-Spatial Attention. Nature Precedings, 2011, , .	0.1	32
54	Anatomy of the dorsal default-mode network in conduct disorder: Association with callous-unemotional traits. Developmental Cognitive Neuroscience, 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. Cortex, 2017, 97, 240-254.	2.4	27
56	Noise Correction on Rician Distributed Data for Fibre Orientation Estimators. IEEE Transactions on Medical Imaging, 2008, 27, 1242-1251.	8.9	24
57	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 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 É›4 and É›2 Alleles in Young Healthy Adolescents. Journal of Alzheimer's Disease, 2015, 47, 977-984.	2.6	17
59	Generalized Richardson-Lucy (GRL) for analyzing multi-shell diffusion MRI data. NeuroImage, 2020, 218, 116948.	4.2	16
60	A Whole-Brain Investigation of White Matter Microstructure in Adolescents with Conduct Disorder. PLoS ONE, 2016, 11, e0155475.	2.5	16
61	Atypical measures of diffusion at the grayâ€“white matter boundary in autism spectrum disorder in adulthood. Human Brain Mapping, 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. Journal of Neurosurgery, 2021, 134, 1368-1376.	1.6	10
63	Diffusion in realistic biophysical systems can lead to aliasing effects in diffusion spectrum imaging. Magnetic Resonance in Medicine, 2016, 76, 1837-1847.	3.0	7
64	Drum training induces Âlong-term plasticity in the cerebellum and connected cortical thickness. Scientific Reports, 2020, 10, 10116.	3.3	7
65	Superior longitudinal fasciculus (SLF) I and II: an anatomical and functional review. Journal of Neurosurgical Sciences, 2022, 65, .	0.6	7
66	The medial occipital longitudinal tract supports early stage encoding of visuospatial information. Communications Biology, 2022, 5, 318.	4.4	5
67	Lateralisation of the Arcuate Fasciculus Predicts Aphasia Recovery at 6 Months. Procedia, Social and Behavioral Sciences, 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-P-068: 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