

# Flavio Dell'Acqua

## List of Publications by Citations

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**Version:** 2024-04-28

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71  
papers

7,072  
citations

36  
h-index

79  
g-index

79  
ext. papers

8,616  
ext. citations

6.7  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
71	A lateralized brain network for visuospatial attention. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1245-6	25.5	703
70	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , <b>2017</b> , 8, 1349	17.4	609
69	Short frontal lobe connections of the human brain. <i>Cortex</i> , <b>2012</b> , 48, 273-91	3.8	501
68	Atlasing location, asymmetry and inter-subject variability of white matter tracts in the human brain with MR diffusion tractography. <i>NeuroImage</i> , <b>2011</b> , 54, 49-59	7.9	477
67	Monkey to human comparative anatomy of the frontal lobe association tracts. <i>Cortex</i> , <b>2012</b> , 48, 82-96	3.8	433
66	A revised limbic system model for memory, emotion and behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2013</b> , 37, 1724-37	9	350
65	A novel frontal pathway underlies verbal fluency in primary progressive aphasia. <i>Brain</i> , <b>2013</b> , 136, 2619-28.2	28.2	315
64	A modified damped Richardson-Lucy algorithm to reduce isotropic background effects in spherical deconvolution. <i>NeuroImage</i> , <b>2010</b> , 49, 1446-58	7.9	235
63	Atlasing the frontal lobe connections and their variability due to age and education: a spherical deconvolution tractography study. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 1751-66	4	218
62	Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks. <i>Brain</i> , <b>2014</b> , 137, 2027-39	11.2	212
61	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> , <b>2013</b> , 34, 2464-83	5.9	200
60	Word learning is mediated by the left arcuate fasciculus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13168-73	11.5	181
59	Fronto-striatal circuitry and inhibitory control in autism: findings from diffusion tensor imaging tractography. <i>Cortex</i> , <b>2012</b> , 48, 183-93	3.8	173
58	Beyond cortical localization in clinico-anatomical correlation. <i>Cortex</i> , <b>2012</b> , 48, 1262-87	3.8	164
57	The anatomy of fronto-occipital connections from early blunt dissections to contemporary tractography. <i>Cortex</i> , <b>2014</b> , 56, 73-84	3.8	162
56	Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by (19)F- and diffusion-MRI. <i>Biomaterials</i> , <b>2012</b> , 33, 2858-71	15.6	143
55	The anatomy of extended limbic pathways in Asperger syndrome: a preliminary diffusion tensor imaging tractography study. <i>NeuroImage</i> , <b>2009</b> , 47, 427-34	7.9	138

54	A model-based deconvolution approach to solve fiber crossing in diffusion-weighted MR imaging. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 462-72	5	131
53	White matter connections of the supplementary motor area in humans. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2014</b> , 85, 1377-85	5.5	117
52	White matter integrity as a predictor of response to treatment in first episode psychosis. <i>Brain</i> , <b>2014</b> , 137, 172-82	11.2	114
51	Structural human brain networks: hot topics in diffusion tractography. <i>Current Opinion in Neurology</i> , <b>2012</b> , 25, 375-83	7.1	99
50	Functional segregation and integration within fronto-parietal networks. <i>NeuroImage</i> , <b>2017</b> , 146, 367-375	7.9	88
49	Frontal networks in adults with autism spectrum disorder. <i>Brain</i> , <b>2016</b> , 139, 616-30	11.2	83
48	Modelling white matter with spherical deconvolution: How and why?. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e3945	4.4	65
47	Connectomic approaches before the connectome. <i>NeuroImage</i> , <b>2013</b> , 80, 2-13	7.9	60
46	Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 1322-35	5.1	57
45	Diffusion tensor imaging of Parkinson's disease, multiple system atrophy and progressive supranuclear palsy: a tract-based spatial statistics study. <i>PLoS ONE</i> , <b>2014</b> , 9, e112638	3.7	55
44	Comment on "The geometric structure of the brain fiber pathways". <i>Science</i> , <b>2012</b> , 337, 1605	33.3	51
43	Frontoparietal Tracts Linked to Lateralized Hand Preference and Manual Specialization. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 2482-2494	5.1	50
42	Impaired Communication Between the Motor and Somatosensory Homunculus Is Associated With Poor Manual Dexterity in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , <b>2017</b> , 81, 211-219	7.9	50
41	Short parietal lobe connections of the human and monkey brain. <i>Cortex</i> , <b>2017</b> , 97, 339-357	3.8	48
40	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> , <b>2014</b> , 15, 346-52	3.8	47
39	Whole-brain ex-vivo quantitative MRI of the cuprizone mouse model. <i>PeerJ</i> , <b>2016</b> , 4, e2632	3.1	44
38	Age-Related Differences and Heritability of the Perisylvian Language Networks. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12625-34	6.6	43
37	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2019</b> , 4, 260-270	3.4	43

36	Connectomic correlates of response to treatment in first-episode psychosis. <i>Brain</i> , <b>2017</b> , 140, 487-496	11.2	36
35	No differences in hippocampal volume between carriers and non-carriers of the ApoE $\epsilon$ 4 and $\epsilon$ 2 alleles in young healthy adolescents. <i>Journal of Alzheimers Disease</i> , <b>2014</b> , 40, 37-43	4.3	35
34	MR diffusion histology and micro-tractography reveal mesoscale features of the human cerebellum. <i>Cerebellum</i> , <b>2013</b> , 12, 923-31	4.3	35
33	The role of the frontal aslant tract and premotor connections in visually guided hand movements. <i>NeuroImage</i> , <b>2017</b> , 146, 419-428	7.9	35
32	Asymmetry and Structure of the Fronto-Parietal Networks Underlie Visuomotor Processing in Humans. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 1532-1544	5.1	34
31	Heritability of the limbic networks. <i>Social Cognitive and Affective Neuroscience</i> , <b>2016</b> , 11, 746-57	4	32
30	Disentangling the relation between left temporoparietal white matter and reading: A spherical deconvolution tractography study. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 3273-87	5.9	32
29	Emotional detachment in psychopathy: Involvement of dorsal default-mode connections. <i>Cortex</i> , <b>2015</b> , 62, 11-9	3.8	31
28	Cross-talk connections underlying dorsal and ventral stream integration during hand actions. <i>Cortex</i> , <b>2018</b> , 103, 224-239	3.8	30
27	Very Early Brain Damage Leads to Remodeling of the Working Memory System in Adulthood: A Combined fMRI/Tractography Study. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 15787-99	6.6	30
26	Anatomical evidence of an indirect pathway for word repetition. <i>Neurology</i> , <b>2020</b> , 94, e594-e606	6.5	29
25	Frontotemporal networks and behavioral symptoms in primary progressive aphasia. <i>Neurology</i> , <b>2016</b> , 86, 1393-1399	6.5	28
24	Differences in Frontal Network Anatomy Across Primate Species. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 20946-2107	6.2	25
23	Anatomic Connections of the Subgenual Cingulate Region. <i>Neurosurgery</i> , <b>2016</b> , 79, 465-72	3.2	24
22	Noise correction on Rician distributed data for fibre orientation estimators. <i>IEEE Transactions on Medical Imaging</i> , <b>2008</b> , 27, 1242-51	11.7	22
21	Anatomy of the dorsal default-mode network in conduct disorder: Association with callous-unemotional traits. <i>Developmental Cognitive Neuroscience</i> , <b>2018</b> , 30, 87-92	5.5	20
20	Pure word deafness following left temporal damage: Behavioral and neuroanatomical evidence from a new case. <i>Cortex</i> , <b>2017</b> , 97, 240-254	3.8	18
19	Reproducibility, reliability and variability of FA and MD in the older healthy population: A test-retest multiparametric analysis. <i>NeuroImage: Clinical</i> , <b>2020</b> , 26, 102168	5.3	15

18	Atypical Brain Asymmetry in Autism-A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2021</b> , 6, 802-812	3.4	14
17	A Whole-Brain Investigation of White Matter Microstructure in Adolescents with Conduct Disorder. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155475	3.7	12
16	Tract Based Spatial Statistic Reveals No Differences in White Matter Microstructural Organization between Carriers and Non-Carriers of the APOE e4 and e2 Alleles in Young Healthy Adolescents. <i>Journal of Alzheimers Disease</i> , <b>2015</b> , 47, 977-84	4.3	11
15	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2021</b> , 6, 813-824	3.4	10
14	Towards robust and replicable sex differences in the intrinsic brain function of autism. <i>Molecular Autism</i> , <b>2021</b> , 12, 19	6.5	9
13	A Lateralized Brain Network for Visuo-Spatial Attention. <i>Nature Precedings</i> , <b>2011</b> ,		8
12	Drum training induces long-term plasticity in the cerebellum and connected cortical thickness. <i>Scientific Reports</i> , <b>2020</b> , 10, 10116	4.9	5
11	Diffusion in realistic biophysical systems can lead to aliasing effects in diffusion spectrum imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1837-1847	4.4	5
10	Generalized Richardson-Lucy (GRL) for analyzing multi-shell diffusion MRI data. <i>NeuroImage</i> , <b>2020</b> , 218, 116948	7.9	4
9	Diffusion Weighted Image Co-registration: Investigation of Best Practices		4
8	Lateralisation of the Arcuate Fasciculus Predicts Aphasia Recovery at 6 Months. <i>Procedia, Social and Behavioral Sciences</i> , <b>2011</b> , 23, 164-166		3
7	Altered corticospinal microstructure and motor cortex excitability in gliomas: an advanced tractography and transcranial magnetic stimulation study. <i>Journal of Neurosurgery</i> , <b>2020</b> , 134, 1368-1376 <sup>2</sup>		3
6	Atypical measures of diffusion at the gray-white matter boundary in autism spectrum disorder in adulthood. <i>Human Brain Mapping</i> , <b>2021</b> , 42, 467-484	5.9	3
5	The missing pathway in current visuospatial processing models		2
4	IC-P-068: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS <b>2014</b> , 10, P37-P38		1
3	Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications <b>2011</b> , 61-75		1
2	The medial occipital longitudinal tract supports early stage encoding of visuospatial information.. <i>Communications Biology</i> , <b>2022</b> , 5, 318	6.7	1
1	P1-243: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS <b>2014</b> , 10, P394-P395		

