

Franco Pestilli

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

3,831
citations

172207

29
h-index

161609

54
g-index

117
all docs

117
docs citations

117
times ranked

3798
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual Information Routes in the Posterior Dorsal and Ventral Face Network Studied with Intracranial Neurophysiology and White Matter Tract Endpoints. <i>Cerebral Cortex</i> , 2022, 32, 342-366.	1.6	11
2	Mapping the Microstructure and Striae of the Human Olfactory Tract with Diffusion MRI. <i>Journal of Neuroscience</i> , 2022, 42, 58-68.	1.7	10
3	A taxonomy of the brain's white matter: twenty-one major tracts for the 21st century. <i>Cerebral Cortex</i> , 2022, 32, 4524-4548.	1.6	17
4	International data governance for neuroscience. <i>Neuron</i> , 2022, 110, 600-612.	3.8	28
5	A massive 7T fMRI dataset to bridge cognitive neuroscience and artificial intelligence. <i>Nature Neuroscience</i> , 2022, 25, 116-126.	7.1	129
6	Multi-Contrast Magnetic Resonance Imaging of Visual White Matter Pathways in Patients With Glaucoma. , 2022, 63, 29.		4
7	Development of white matter tracts between and within the dorsal and ventral streams. <i>Brain Structure and Function</i> , 2022, 227, 1457-1477.	1.2	10
8	Understanding structure-function relationships in the mammalian visual system: part two. <i>Brain Structure and Function</i> , 2022, , .	1.2	0
9	GPU-accelerated connectome discovery at scale. <i>Nature Computational Science</i> , 2022, 2, 298-306.	3.8	1
10	Classifyber, a robust streamline-based linear classifier for white matter bundle segmentation. <i>NeuroImage</i> , 2021, 224, 117402.	2.1	26
11	V1 Projection Zone Signals in Human Macular Degeneration Depend on Task Despite Absence of Visual Stimulus. <i>Current Biology</i> , 2021, 31, 406-412.e3.	1.8	14
12	The human endogenous attentional control network includes a ventro-temporal cortical node. <i>Nature Communications</i> , 2021, 12, 360.	5.8	34
13	In defense of decentralized research data management. <i>Neuroforum</i> , 2021, , .	0.2	14
14	Collegiate athlete brain data for white matter mapping and network neuroscience. <i>Scientific Data</i> , 2021, 8, 56.	2.4	4
15	White matter alterations in glaucoma and monocular blindness differ outside the visual system. <i>Scientific Reports</i> , 2021, 11, 6866.	1.6	11
16	Age dependency and lateralization in the three branches of the human superior longitudinal fasciculus. <i>Cortex</i> , 2021, 139, 116-133.	1.1	18
17	A single mode of population covariation associates brain networks structure and behavior and predicts individual subjects' age. <i>Communications Biology</i> , 2021, 4, 943.	2.0	1
18	Chiasmal malformations dataset: a unique neuroimaging testbed. <i>Journal of Vision</i> , 2021, 21, 2507.	0.1	0

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19	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
20	CHIASM, the human brain albinism and achiasma MRI dataset. <i>Scientific Data</i> , 2021, 8, 308.	2.4	6
21	Tractostorm: The what, why, and how of tractography dissection reproducibility. <i>Human Brain Mapping</i> , 2020, 41, 1859-1874.	1.9	59
22	Bundle analytics, a computational framework for investigating the shapes and profiles of brain pathways across populations. <i>Scientific Reports</i> , 2020, 10, 17149.	1.6	57
23	Open science, communal culture, and women's participation in the movement to improve science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24154-24164.	3.3	36
24	Perspectives given by structural connectivity bridge the gap between structure and function. <i>Brain Structure and Function</i> , 2020, 225, 1189-1192.	1.2	10
25	The visual white matter connecting human area prostriata and the thalamus is retinotopically organized. <i>Brain Structure and Function</i> , 2020, 225, 1839-1853.	1.2	13
26	Spatial organization of occipital white matter tracts in the common marmoset. <i>Brain Structure and Function</i> , 2020, 225, 1313-1326.	1.2	14
27	Triple visual hemifield maps in a case of optic chiasm hypoplasia. <i>NeuroImage</i> , 2020, 215, 116822.	2.1	10
28	Predicting Neural Response Latency of the Human Early Visual Cortex from MRI-Based Tissue Measurements of the Optic Radiation. <i>ENeuro</i> , 2020, 7, ENEURO.0545-19.2020.	0.9	10
29	Anatomy of nerve fiber bundles at micrometer-resolution in the vervet monkey visual system. <i>ELife</i> , 2020, 9, .	2.8	23
30	Inter-individual Differences in Occipital Alpha Oscillations Correlate with White Matter Tissue Properties of the Optic Radiation. <i>ENeuro</i> , 2020, 7, ENEURO.0224-19.2020.	0.9	17
31	A large white matter bundle connecting area prostriata and visual thalamus in humans. <i>Journal of Vision</i> , 2020, 20, 1233.	0.1	0
32	Associative white matter connecting the dorsal and ventral posterior human cortex. <i>Brain Structure and Function</i> , 2019, 224, 2631-2660.	1.2	51
33	Methods for analysis of brain connectivity: An IFCN-sponsored review. <i>Clinical Neurophysiology</i> , 2019, 130, 1833-1858.	0.7	106
34	ReAl-LiFE: Accelerating the Discovery of Individualized Brain Connectomes on GPUs. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 630-638.	3.6	5
35	Quantifying nerve decussation abnormalities in the optic chiasm. <i>NeuroImage: Clinical</i> , 2019, 24, 102055.	1.4	19
36	Anatomically-Informed Multiple Linear Assignment Problems for White Matter Bundle Segmentation. , 2019, , .		3

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37	Open data on industry payments to healthcare providers reveal potential hidden costs to the public. <i>Nature Communications</i> , 2019, 10, 4314.	5.8	15
38	The open diffusion data derivatives, brain data upcycling via integrated publishing of derivatives and reproducible open cloud services. <i>Scientific Data</i> , 2019, 6, 69.	2.4	69
39	Diffusivity and quantitative T1 profile of human visual white matter tracts after retinal ganglion cell damage. <i>NeuroImage: Clinical</i> , 2019, 23, 101826.	1.4	29
40	Comparative neuroanatomy: Integrating classic and modern methods to understand association fibers connecting dorsal and ventral visual cortex. <i>Neuroscience Research</i> , 2019, 146, 1-12.	1.0	16
41	Functionally defined white matter of the macaque monkey brain reveals a dorso-ventral attention network. <i>ELife</i> , 2019, 8, .	2.8	43
42	Computational neuroanatomy of human stratum proprium of interparietal sulcus. <i>Brain Structure and Function</i> , 2018, 223, 489-507.	1.2	19
43	Comparing fMRI activation during smooth pursuit eye movements among contact sport athletes, non-contact sport athletes, and non-athletes. <i>NeuroImage: Clinical</i> , 2018, 18, 413-424.	1.4	17
44	Framework for shape analysis of white matter fiber bundles. <i>NeuroImage</i> , 2018, 167, 466-477.	2.1	20
45	Microstructural properties of the vertical occipital fasciculus explain the variability in human stereoacuity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12289-12294.	3.3	34
46	Age-related macular degeneration affects the optic radiation white matter projecting to locations of retinal damage. <i>Brain Structure and Function</i> , 2018, 223, 3889-3900.	1.2	33
47	Human white matter and knowledge representation. <i>PLoS Biology</i> , 2018, 16, e2005758.	2.6	16
48	Shape Analysis of White Matter Tracts via the Laplace-Beltrami Spectrum. <i>Lecture Notes in Computer Science</i> , 2018, , 195-206.	1.0	3
49	Occipital White Matter Tracts in Human and Macaque. <i>Cerebral Cortex</i> , 2017, 27, 3346-3359.	1.6	73
50	Shape-Attributes of Brain Structures as Biomarkers for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 287-295.	1.2	16
51	Face percept formation in human ventral temporal cortex. <i>Journal of Neurophysiology</i> , 2017, 118, 2614-2627.	0.9	23
52	Multidimensional encoding of brain connectomes. <i>Scientific Reports</i> , 2017, 7, 11491.	1.6	33
53	DTI measures identify mild and moderate TBI cases among patients with complex health problems: A receiver operating characteristic analysis of U.S. veterans. <i>NeuroImage: Clinical</i> , 2017, 16, 1-16.	1.4	27
54	MPI-LiFE: Designing High-Performance Linear Fascicle Evaluation of Brain Connectome with MPI. , 2017, , .		1

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55	The visual white matter: The application of diffusion MRI and fiber tractography to vision science. <i>Journal of Vision</i> , 2017, 17, 4.	0.1	66
56	Ensemble Tractography. <i>PLoS Computational Biology</i> , 2016, 12, e1004692.	1.5	101
57	White Matter Diffusion of Major Fiber Tracts Implicated in Autism Spectrum Disorder. <i>Brain Connectivity</i> , 2016, 6, 691-699.	0.8	33
58	White-Matter Tract Connecting Anterior Insula to Nucleus Accumbens Correlates with Reduced Preference for Positively Skewed Gambles. <i>Neuron</i> , 2016, 89, 63-69.	3.8	84
59	A Major Human White Matter Pathway Between Dorsal and Ventral Visual Cortex. <i>Cerebral Cortex</i> , 2016, 26, 2205-2214.	1.6	139
60	Test-retest measurements and digital validation for in vivo neuroscience. <i>Scientific Data</i> , 2015, 2, 140057.	2.4	17
61	Evaluating the Accuracy of Diffusion MRI Models in White Matter. <i>PLoS ONE</i> , 2015, 10, e0123272.	1.1	67
62	Human blindsight is mediated by an intact geniculo-extrastriate pathway. <i>ELife</i> , 2015, 4, .	2.8	119
63	A review of the mechanisms by which attentional feedback shapes visual selectivity. <i>Brain Structure and Function</i> , 2015, 220, 1237-1250.	1.2	24
64	Saccade Planning Evokes Topographically Specific Activity in the Dorsal and Ventral Streams. <i>Journal of Neuroscience</i> , 2015, 35, 245-252.	1.7	48
65	Functionally Defined White Matter Reveals Segregated Pathways in Human Ventral Temporal Cortex Associated with Category-Specific Processing. <i>Neuron</i> , 2015, 85, 216-227.	3.8	161
66	Altered white matter in early visual pathways of humans with amblyopia. <i>Vision Research</i> , 2015, 114, 48-55.	0.7	51
67	Self-portraits of the brain: cognitive science, data visualization, and communicating brain structure and function. <i>Trends in Cognitive Sciences</i> , 2015, 19, 462-474.	4.0	19
68	White Matter Consequences of Retinal Receptor and Ganglion Cell Damage. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 6976-6986.	3.3	65
69	Differing effects of attention in single-units and populations are well predicted by heterogeneous tuning and the normalization model of attention. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 12.	1.2	35
70	The vertical occipital fasciculus: A century of controversy resolved by in vivo measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5214-23.	3.3	221
71	Using fMRI to characterize how cortex represents limb motions. <i>BMC Neuroscience</i> , 2014, 15, .	0.8	0
72	Evaluation and statistical inference for human connectomes. <i>Nature Methods</i> , 2014, 11, 1058-1063.	9.0	225

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73	Speed discrimination predicts word but not pseudo-word reading rate in adults and children. <i>Brain and Language</i> , 2014, 138, 27-37.	0.8	7
74	LiFE: Linear Fascicle Evaluation a new technology to study visual connectomes. <i>Journal of Vision</i> , 2014, 14, 1122-1122.	0.1	5
75	Measuring and modelling of diffusion and white-matter tracts. <i>Journal of Vision</i> , 2014, 14, 1461-1461.	0.1	0
76	Functionally-defined white matter selectively predicts face- and place-processing performance. <i>Journal of Vision</i> , 2014, 14, 602-602.	0.1	0
77	Attentional Enhancement via Selection and Pooling of Early Sensory Responses in Human Visual Cortex. <i>Neuron</i> , 2011, 72, 832-846.	3.8	170
78	A population-coding model of attention's influence on contrast response: Estimating neural effects from psychophysical data. <i>Vision Research</i> , 2009, 49, 1144-1153.	0.7	95
79	Attention trades off spatial acuity. <i>Vision Research</i> , 2009, 49, 735-745.	0.7	139
80	Functional Imaging with Reinforcement, Eyetracking, and Physiological Monitoring. <i>Journal of Visualized Experiments</i> , 2008, , .	0.2	2
81	How do attention and adaptation affect contrast sensitivity?. <i>Journal of Vision</i> , 2007, 7, 9.	0.1	102
82	Attention enhances contrast sensitivity at cued and impairs it at uncued locations. <i>Vision Research</i> , 2005, 45, 1867-1875.	0.7	227
83	Transient Attention Enhances Perceptual Performance and fMRI Response in Human Visual Cortex. <i>Neuron</i> , 2005, 45, 469-477.	3.8	178