

Laurent Petit

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

9,813
citations

57719

44
h-index

45285

90
g-index

111
all docs

111
docs citations

111
times ranked

9956
citing authors

#	ARTICLE	IF	CITATIONS
1	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	5.8	956
2	An Area Specialized for Spatial Working Memory in Human Frontal Cortex. Science, 1998, 279, 1347-1351.	6.0	903
3	Cortical networks for working memory and executive functions sustain the conscious resting state in man. Brain Research Bulletin, 2001, 54, 287-298.	1.4	837
4	What is right-hemisphere contribution to phonological, lexico-semantic, and sentence processing?. NeuroImage, 2011, 54, 577-593.	2.1	383
5	A Parametric fMRI Study of Overt and Covert Shifts of Visuospatial Attention. NeuroImage, 2001, 14, 310-321.	2.1	324
6	Brain activity at rest: a multiscale hierarchical functional organization. Journal of Neurophysiology, 2011, 105, 2753-2763.	0.9	287
7	Functional Anatomy of a Prelearned Sequence of Horizontal Saccades in Humans. Journal of Neuroscience, 1996, 16, 3714-3726.	1.7	280
8	Sustained Activity in the Medial Wall during Working Memory Delays. Journal of Neuroscience, 1998, 18, 9429-9437.	1.7	257
9	The role of prefrontal cortex in working memory: examining the contents of consciousness. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 1819-1828.	1.8	252
10	Functional Anatomy of Pursuit Eye Movements in Humans as Revealed by fMRI. Journal of Neurophysiology, 1999, 82, 463-471.	0.9	249
11	Gaussian Mixture Modeling of Hemispheric Lateralization for Language in a Large Sample of Healthy Individuals Balanced for Handedness. PLoS ONE, 2014, 9, e101165.	1.1	246
12	Reopening the Mental Imagery Debate: Lessons from Functional Anatomy. NeuroImage, 1998, 8, 129-139.	2.1	242
13	Distinguishing the Functional Roles of Multiple Regions in Distributed Neural Systems for Visual Working Memory. NeuroImage, 2000, 11, 380-391.	2.1	235
14	PET study of voluntary saccadic eye movements in humans: basal ganglia-thalamocortical system and cingulate cortex involvement. Journal of Neurophysiology, 1993, 69, 1009-1017.	0.9	232
15	AICHA: An atlas of intrinsic connectivity of homotopic areas. Journal of Neuroscience Methods, 2015, 254, 46-59.	1.3	232
16	Dissociation of Saccade-Related and Pursuit-Related Activation in Human Frontal Eye Fields as Revealed by fMRI. Journal of Neurophysiology, 1997, 77, 3386-3390.	0.9	231
17	Recognition of white matter bundles using local and global streamline-based registration and clustering. NeuroImage, 2018, 170, 283-295.	2.1	205
18	Revisiting human hemispheric specialization with neuroimaging. Trends in Cognitive Sciences, 2013, 17, 69-80.	4.0	200

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19	Neural Correlates of Topographic Mental Exploration: The Impact of Route versus Survey Perspective Learning. <i>NeuroImage</i> , 2000, 12, 588-600.	2.1	198
20	The resting state questionnaire: An introspective questionnaire for evaluation of inner experience during the conscious resting state. <i>Brain Research Bulletin</i> , 2010, 81, 565-573.	1.4	146
21	Distinguishing the Functional Roles of Multiple Regions in Distributed Neural Systems for Visual Working Memory. <i>NeuroImage</i> , 2000, 11, 145-156.	2.1	145
22	Cortical Terminations of the Inferior Fronto-Occipital and Uncinate Fasciculi: Anatomical Stem-Based Virtual Dissection. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 58.	0.9	114
23	How verbal and spatial manipulation networks contribute to calculation: An fMRI study. <i>Neuropsychologia</i> , 2008, 46, 2403-2414.	0.7	108
24	Patterns of hemodynamic low-frequency oscillations in the brain are modulated by the nature of free thought during rest. <i>NeuroImage</i> , 2012, 59, 3194-3200.	2.1	96
25	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
26	Revisiting the human uncinate fasciculus, its subcomponents and asymmetries with stem-based tractography and microdissection validation. <i>Brain Structure and Function</i> , 2017, 222, 1645-1662.	1.2	91
27	A positron emission tomography study of oculomotor imagery. <i>NeuroReport</i> , 1994, 5, 921-924.	0.6	89
28	Descriptive anatomy of Heschl's gyri in 430 healthy volunteers, including 198 left-handers. <i>Brain Structure and Function</i> , 2015, 220, 729-743.	1.2	89
29	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020, 11, 6285.	5.8	89
30	The Nomenclature of Human White Matter Association Pathways: Proposal for a Systematic Taxonomic Anatomical Classification. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 94.	0.9	82
31	BIL&GIN: A neuroimaging, cognitive, behavioral, and genetic database for the study of human brain lateralization. <i>NeuroImage</i> , 2016, 124, 1225-1231.	2.1	81
32	Neural Basis of Visually Guided Head Movements Studied With fMRI. <i>Journal of Neurophysiology</i> , 2003, 89, 2516-2527.	0.9	73
33	New insights in the homotopic and heterotopic connectivity of the frontal portion of the human corpus callosum revealed by microdissection and diffusion tractography. <i>Human Brain Mapping</i> , 2016, 37, 4718-4735.	1.9	73
34	PET study of the human foveal fixation system. <i>Human Brain Mapping</i> , 1999, 8, 28-43.	1.9	69
35	Pseudoneglect in line bisection judgement is associated with a modulation of right hemispheric spatial attention dominance in right-handers. <i>Neuropsychologia</i> , 2017, 94, 75-83.	0.7	65
36	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. <i>Science Advances</i> , 2020, 6, eaba8245.	4.7	64

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37	Bundle-specific tractography with incorporated anatomical and orientational priors. <i>NeuroImage</i> , 2019, 186, 382-398.	2.1	59
38	Tractostorm: The what, why, and how of tractography dissection reproducibility. <i>Human Brain Mapping</i> , 2020, 41, 1859-1874.	1.9	59
39	A SENTence Supramodal Areas Atlas (SENSAAS) based on multiple task-induced activation mapping and graph analysis of intrinsic connectivity in 144 healthy right-handers. <i>Brain Structure and Function</i> , 2019, 224, 859-882.	1.2	58
40	Brain connections derived from diffusion MRI tractography can be highly anatomically accurate if we know where white matter pathways start, where they end, and where they do not go. <i>Brain Structure and Function</i> , 2020, 225, 2387-2402.	1.2	58
41	N170 ERPs could represent a logographic processing strategy in visual word recognition. <i>Behavioral and Brain Functions</i> , 2007, 3, 21.	1.4	56
42	Human brain diffusion tensor imaging at submillimeter isotropic resolution on a 3 Tesla clinical MRI scanner. <i>NeuroImage</i> , 2015, 118, 667-675.	2.1	56
43	Functional Neuroanatomy of the Human Visual Fixation System. <i>European Journal of Neuroscience</i> , 1995, 7, 169-174.	1.2	55
44	Strong rightward lateralization of the dorsal attentional network in left-handers with right sighting eye: An evolutionary advantage. <i>Human Brain Mapping</i> , 2015, 36, 1151-1164.	1.9	53
45	Weak language lateralization affects both verbal and spatial skills: An fMRI study in 297 subjects. <i>Neuropsychologia</i> , 2014, 65, 56-62.	0.7	48
46	A population-based atlas of the human pyramidal tract in 410 healthy participants. <i>Brain Structure and Function</i> , 2019, 224, 599-612.	1.2	48
47	Functional Asymmetries Revealed in Visually Guided Saccades: An fMRI Study. <i>Journal of Neurophysiology</i> , 2009, 102, 2994-3003.	0.9	47
48	Axtract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017, 38, 5485-5500.	1.9	47
49	Left Hemisphere Lateralization for Language in Right-Handers Is Controlled in Part by Familial Sinistrality, Manual Preference Strength, and Head Size. <i>Journal of Neuroscience</i> , 2010, 30, 13314-13318.	1.7	46
50	Effect of Familial Sinistrality on Planum Temporale Surface and Brain Tissue Asymmetries. <i>Cerebral Cortex</i> , 2010, 20, 1476-1485.	1.6	44
51	Between-hand difference in ipsilateral deactivation is associated with hand lateralization: fMRI mapping of 284 volunteers balanced for handedness. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 5.	1.0	42
52	Relationships between hand laterality and verbal and spatial skills in 436 healthy adults balanced for handedness. <i>Laterality</i> , 2014, 19, 383-404.	0.5	41
53	The association between hemispheric specialization for language production and for spatial attention depends on left-hand preference strength. <i>Neuropsychologia</i> , 2016, 93, 394-406.	0.7	41
54	Heschl's gyrfication pattern is related to speech-listening hemispheric lateralization: fMRI investigation in 281 healthy volunteers. <i>Brain Structure and Function</i> , 2015, 220, 1585-1599.	1.2	39

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55	Impact of the virtual reality on the neural representation of an environment. Human Brain Mapping, 2010, 31, 1065-1075.	1.9	36
56	Prevalence of white matter pathways coming into a single white matter voxel orientation: The bottleneck issue in tractography. Human Brain Mapping, 2022, 43, 1196-1213.	1.9	34
57	Uncovering the inferior fronto-occipital fascicle and its topological organization in non-human primates: the missing connection for language evolution. Brain Structure and Function, 2019, 224, 1553-1567.	1.2	31
58	Right hemisphere dominance for auditory attention and its modulation by eye position: an event related fMRI study. Restorative Neurology and Neuroscience, 2007, 25, 211-25.	0.4	31
59	Age-Related Changes of Peak Width Skeletonized Mean Diffusivity (PSMD) Across the Adult Lifespan: A Multi-Cohort Study. Frontiers in Psychiatry, 2020, 11, 342.	1.3	26
60	Filtering in tractography using autoencoders (FINTA). Medical Image Analysis, 2021, 72, 102126.	7.0	23
61	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. Frontiers in Neuroanatomy, 2019, 13, 24.	0.9	22
62	Use of anatomical parcellation to catalog and study structure-function relationships in the human brain. , 1997, 5, 228-232.		21
63	Can touch this? Cross-modal shape categorization performance is associated with microstructural characteristics of white matter association pathways. Human Brain Mapping, 2017, 38, 842-854.	1.9	20
64	Hodology of the superior longitudinal system of the human brain: a historical perspective, the current controversies, and a proposal. Brain Structure and Function, 2021, 226, 1363-1384.	1.2	20
65	Learn to Track: Deep Learning for Tractography. Lecture Notes in Computer Science, 2017, , 540-547.	1.0	19
66	Functionnectome as a framework to analyse the contribution of brain circuits to fMRI. Communications Biology, 2021, 4, 1035.	2.0	18
67	A Novel Group ICA Approach Based on Multi-scale Individual Component Clustering. Application to a Large Sample of fMRI Data. Neuroinformatics, 2012, 10, 269-285.	1.5	17
68	The comparative anatomy of frontal eye fields in primates. Cortex, 2019, 118, 51-64.	1.1	17
69	Cognitive inhibition of number/length interference in a Piaget-like task: Evidence by combining ERP and MEG. Clinical Neurophysiology, 2009, 120, 1501-1513.	0.7	16
70	Eye position-dependent activity in the primary visual area as revealed by fMRI. Human Brain Mapping, 2007, 28, 673-680.	1.9	14
71	A common neural system is activated in hearing non-signers to process French Sign language and spoken French. Brain Research Bulletin, 2011, 84, 75-87.	1.4	13
72	Hierarchical Microstructure Informed Tractography. Brain Connectivity, 2021, 11, 75-88.	0.8	13

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73	Tractogram Filtering of Anatomically Non-plausible Fibers with Geometric Deep Learning. Lecture Notes in Computer Science, 2020, , 291-301.	1.0	12
74	Early visual evoked potentials are modulated by eye position in humans induced by whole body rotations. BMC Neuroscience, 2004, 5, 35.	0.8	11
75	The MRI-Share database: brain imaging in a cross-sectional cohort of 1870 university students. Brain Structure and Function, 2021, 226, 2057-2085.	1.2	11
76	The inferior fronto-occipital fascicle: a century of controversies from anatomy theaters to operative neurosurgery. Journal of Neurosurgical Sciences, 2022, 65, .	0.3	9
77	Neural correlates of counting large numerosity. ZDM - International Journal on Mathematics Education, 2010, 42, 569-577.	1.3	8
78	Tractostorm 2: Optimizing tractography dissection reproducibility with segmentation protocol dissemination. Human Brain Mapping, 2022, 43, 2134-2147.	1.9	8
79	Neuroanatomical correlates of haptic object processing: combined evidence from tractography and functional neuroimaging. Brain Structure and Function, 2018, 223, 619-633.	1.2	7
80	Novel characterization of the relationship between verbal listâ€¦learning outcomes and hippocampal subfields in healthy adults. Human Brain Mapping, 2021, 42, 5264-5277.	1.9	7
81	The neural correlates of highly iconic structures and topographic discourse in French Sign Language as observed in six hearing native signers. Brain and Language, 2010, 114, 180-192.	0.8	6
82	The link between structural connectivity and neurocognition illustrated by focal epilepsy. Epileptic Disorders, 2018, 20, 88-98.	0.7	6
83	Age-Related Variations in Regional White Matter Volumetry and Microstructure During the Post-adolescence Period: A Cross-Sectional Study of a Cohort of 1,713 University Students. Frontiers in Systems Neuroscience, 2021, 15, 692152.	1.2	5
84	Superior Parietal Lobule Involvement in the Representation of Visual Space: a PET Review. , 1997, , 77-91.		5
85	The influence of regions of interest on tractography virtual dissection protocols: general principles to learn and to follow. Brain Structure and Function, 2022, 227, 2191-2207.	1.2	5
86	Neural bases of topographical representation in humans: Contribution of neuroimaging studies. , 2010, , 17-30.		2
87	Editorial: Organization of the White Matter Anatomy in the Human Brain. Frontiers in Neuroanatomy, 2019, 13, 85.	0.9	2
88	BIRD: a brain imaging relational database. NeuroImage, 1996, 3, S112.	2.1	1
89	Response: Commentary: The Nomenclature of Human White Matter Association Pathways: Proposal for a Systematic Taxonomic Anatomical Classification. Frontiers in Neuroanatomy, 2019, 13, 91.	0.9	1
90	Localization and imaging of white matter fiber crossings in whole mouse brains using diffusion MRI and serial blockface OCT. , 2021, , .		1

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91	Do Executed, Imagined and Suppressed Saccadic Eye Movements Share the Same Neuronal Mechanisms in Healthy Human ?. , 1996, , 153-164.		1
92	Imagerie cÃ©rÃ©brale de l'imagerie mentale.. Medecine/Sciences, 1999, 15, 475.	0.0	1
93	Brain, language, and handedness: a family affair. Nature Precedings, 2009, , .	0.1	0
94	Reply to the letter to the Editor. Brain Structure and Function, 2021, 226, 2479-2480.	1.2	0