

Michel Thiebaut de Schotten

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127
papers

10,198
citations

48
h-index

100
g-index

162
ext. papers

12,614
ext. citations

6.4
avg, IF

6.52
L-index

#	Paper	IF	Citations
127	A diffusion tensor imaging tractography atlas for virtual in vivo dissections. <i>Cortex</i> , 2008 , 44, 1105-32	3.8	1142
126	A lateralized brain network for visuospatial attention. <i>Nature Neuroscience</i> , 2011 , 14, 1245-6	25.5	703
125	Direct evidence for a parietal-frontal pathway subserving spatial awareness in humans. <i>Science</i> , 2005 , 309, 2226-8	33.3	517
124	Short frontal lobe connections of the human brain. <i>Cortex</i> , 2012 , 48, 273-91	3.8	501
123	Atlasing location, asymmetry and inter-subject variability of white matter tracts in the human brain with MR diffusion tractography. <i>NeuroImage</i> , 2011 , 54, 49-59	7.9	477
122	Monkey to human comparative anatomy of the frontal lobe association tracts. <i>Cortex</i> , 2012 , 48, 82-96	3.8	433
121	A revised limbic system model for memory, emotion and behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2013 , 37, 1724-37	9	350
120	A novel frontal pathway underlies verbal fluency in primary progressive aphasia. <i>Brain</i> , 2013 , 136, 2619-28	28.2	315
119	Left unilateral neglect as a disconnection syndrome. <i>Cerebral Cortex</i> , 2007 , 17, 2479-90	5.1	308
118	Evidence for potentials and limitations of brain plasticity using an atlas of functional resectability of WHO grade II gliomas: towards a "minimal common brain". <i>NeuroImage</i> , 2011 , 56, 992-1000	7.9	258
117	White matter (dis)connections and gray matter (dys)functions in visual neglect: gaining insights into the brain networks of spatial awareness. <i>Cortex</i> , 2008 , 44, 983-95	3.8	252
116	Damage to white matter pathways in subacute and chronic spatial neglect: a group study and 2 single-case studies with complete virtual "in vivo" tractography dissection. <i>Cerebral Cortex</i> , 2014 , 24, 691-706	5.1	231
115	Atlasing the frontal lobe connections and their variability due to age and education: a spherical deconvolution tractography study. <i>Brain Structure and Function</i> , 2016 , 221, 1751-66	4	218
114	Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks. <i>Brain</i> , 2014 , 137, 2027-39	11.2	212
113	Atlas of Human Brain Connections 2012 ,		167
112	Beyond cortical localization in clinico-anatomical correlation. <i>Cortex</i> , 2012 , 48, 1262-87	3.8	164
111	Brain networks of spatial awareness: evidence from diffusion tensor imaging tractography. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008 , 79, 598-601	5.5	163

110	The anatomy of fronto-occipital connections from early blunt dissections to contemporary tractography. <i>Cortex</i> , 2014 , 56, 73-84	3.8	162
109	Learning to read improves the structure of the arcuate fasciculus. <i>Cerebral Cortex</i> , 2014 , 24, 989-95	5.1	143
108	Brain networks of visuospatial attention and their disruption in visual neglect. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 110	3.3	140
107	The anatomy of extended limbic pathways in Asperger syndrome: a preliminary diffusion tensor imaging tractography study. <i>NeuroImage</i> , 2009 , 47, 427-34	7.9	138
106	White matter lesional predictors of chronic visual neglect: a longitudinal study. <i>Brain</i> , 2015 , 138, 746-60	11.2	136
105	Anatomical connections of the visual word form area. <i>Journal of Neuroscience</i> , 2014 , 34, 15402-14	6.6	135
104	Neural correlates of cognitive impairment in posterior cortical atrophy. <i>Brain</i> , 2011 , 134, 1464-78	11.2	130
103	Advanced lesion symptom mapping analyses and implementation as BCBtoolkit. <i>GigaScience</i> , 2018 , 7, 1-17	7.6	122
102	White matter connections of the supplementary motor area in humans. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 1377-85	5.5	117
101	From Phineas Gage and Monsieur Leborgne to H.M.: Revisiting Disconnection Syndromes. <i>Cerebral Cortex</i> , 2015 , 25, 4812-27	5.1	102
100	Multimodal voxel-based meta-analysis of white matter abnormalities in obsessive-compulsive disorder. <i>Neuropsychopharmacology</i> , 2014 , 39, 1547-57	8.7	102
99	DTI-MR tractography of white matter damage in stroke patients with neglect. <i>Experimental Brain Research</i> , 2011 , 208, 491-505	2.3	101
98	White matter functional connectivity as an additional landmark for dominant temporal lobectomy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008 , 79, 492-5	5.5	90
97	An improved neuroanatomical model of the default-mode network reconciles previous neuroimaging and neuropathological findings. <i>Communications Biology</i> , 2019 , 2, 370	6.7	89
96	Functional segregation and integration within fronto-parietal networks. <i>NeuroImage</i> , 2017 , 146, 367-375	7.9	88
95	The architecture of functional lateralisation and its relationship to callosal connectivity in the human brain. <i>Nature Communications</i> , 2019 , 10, 1417	17.4	85
94	The functional architecture of the left posterior and lateral prefrontal cortex in humans. <i>Cerebral Cortex</i> , 2008 , 18, 2460-9	5.1	85
93	Frontal networks in adults with autism spectrum disorder. <i>Brain</i> , 2016 , 139, 616-30	11.2	83

92	Traumatic brain injury and the frontal lobes: what can we gain with diffusion tensor imaging?. <i>Cortex</i> , 2012 , 48, 156-65	3.8	83
91	Visualization of disconnection syndromes in humans. <i>Cortex</i> , 2008 , 44, 1097-103	3.8	83
90	Subspecialization within default mode nodes characterized in 10,000 UK Biobank participants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12295-12300	11.5	71
89	Attention networks and their interactions after right-hemisphere damage. <i>Cortex</i> , 2012 , 48, 654-63	3.8	64
88	Connectomic approaches before the connectome. <i>NeuroImage</i> , 2013 , 80, 2-13	7.9	60
87	Post-stroke deficit prediction from lesion and indirect structural and functional disconnection. <i>Brain</i> , 2020 , 143, 2173-2188	11.2	58
86	Relationship Between Cortical Gyrfication, White Matter Connectivity, and Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2016 , 26, 3297-309	5.1	57
85	The role of diffusion MRI in neuroscience. <i>NMR in Biomedicine</i> , 2019 , 32, e3762	4.4	55
84	Altered hemispheric lateralization of white matter pathways in developmental dyslexia: Evidence from spherical deconvolution tractography. <i>Cortex</i> , 2016 , 76, 51-62	3.8	54
83	Structural Variability Across the Primate Brain: A Cross-Species Comparison. <i>Cerebral Cortex</i> , 2018 , 28, 3829-3841	5.1	52
82	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020 , 105, 600-603	13.9	51
81	Frontoparietal Tracts Linked to Lateralized Hand Preference and Manual Specialization. <i>Cerebral Cortex</i> , 2018 , 28, 2482-2494	5.1	50
80	Subdivision of the occipital lobes: an anatomical and functional MRI connectivity study. <i>Cortex</i> , 2014 , 56, 121-37	3.8	50
79	Let thy left brain know what thy right brain doeth: Inter-hemispheric compensation of functional deficits after brain damage. <i>Neuropsychologia</i> , 2016 , 93, 407-412	3.2	47
78	Cortical control of inhibition of return: evidence from patients with inferior parietal damage and visual neglect. <i>Neuropsychologia</i> , 2012 , 50, 800-9	3.2	46
77	Mapping of visuospatial functions during brain surgery: a new tool to prevent unilateral spatial neglect. <i>Neurosurgery</i> , 2007 , 61, E1340	3.2	44
76	Reasoning by analogy requires the left frontal pole: lesion-deficit mapping and clinical implications. <i>Brain</i> , 2016 , 139, 1783-99	11.2	42
75	Rostro-caudal Architecture of the Frontal Lobes in Humans. <i>Cerebral Cortex</i> , 2017 , 27, 4033-4047	5.1	41

74	Visual neglect in posterior cortical atrophy. <i>BMC Neurology</i> , 2010 , 10, 68	3.1	40
73	Brain disconnections link structural connectivity with function and behaviour. <i>Nature Communications</i> , 2020 , 11, 5094	17.4	37
72	Two critical brain networks for generation and combination of remote associations. <i>Brain</i> , 2018 , 141, 217-233	11.2	36
71	Anosognosia for hemiplegia as a tripartite disconnection syndrome. <i>ELife</i> , 2019 , 8,	8.9	35
70	Differential default mode network trajectories in asymptomatic individuals at risk for Alzheimer's disease. <i>Alzheimers and Dementia</i> , 2019 , 15, 940-950	1.2	31
69	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, 15787-99	6.6	30
68	The anatomy of cerebral achromatopsia: a reappraisal and comparison of two case reports. <i>Cortex</i> , 2014 , 56, 138-44	3.8	29
67	Double-dissociation between the mechanism leading to impulsivity and inattention in Attention Deficit Hyperactivity Disorder: A resting-state functional connectivity study. <i>Cortex</i> , 2017 , 86, 290-302	3.8	28
66	Frontotemporal networks and behavioral symptoms in primary progressive aphasia. <i>Neurology</i> , 2016 , 86, 1393-1399	6.5	28
65	Morphometry of Left Frontal and Temporal Poles Predicts Analogical Reasoning Abilities. <i>Cerebral Cortex</i> , 2016 , 26, 915-932	5.1	27
64	Cingulate neglect in humans: disruption of contralesional reward learning in right brain damage. <i>Cortex</i> , 2015 , 62, 73-88	3.8	27
63	Alterations in white matter pathways underlying phonological and morphological processing in Chinese developmental dyslexia. <i>Developmental Cognitive Neuroscience</i> , 2018 , 31, 11-19	5.5	26
62	Dissociating motor-speech from lexico-semantic systems in the left frontal lobe: insight from a series of 17 awake intraoperative mappings in glioma patients. <i>Brain Structure and Function</i> , 2019 , 224, 1151-1165	4	26
61	Anatomical predictors of successful prism adaptation in chronic visual neglect. <i>Cortex</i> , 2019 , 120, 629-644	3.8	22
60	Large-scale comparative neuroimaging: Where are we and what do we need?. <i>Cortex</i> , 2019 , 118, 188-202	3.8	21
59	White matter microstructure of attentional networks predicts attention and consciousness functional interactions. <i>Brain Structure and Function</i> , 2018 , 223, 653-668	4	15
58	Connectivity-based parcellation of the macaque frontal cortex, and its relation with the cytoarchitectonic distribution described in current atlases. <i>Brain Structure and Function</i> , 2017 , 222, 1331-1349	4.1349	15
57	The rise of a new associationist school for lesion-symptom mapping. <i>Brain</i> , 2018 , 141, 2-4	11.2	14

56	Impact of literacy on the functional connectivity of vision and language related networks. <i>NeuroImage</i> , 2020 , 213, 116722	7.9	12
55	Vocabulary growth rate from preschool to school-age years is reflected in the connectivity of the arcuate fasciculus in 14-year-old children. <i>Developmental Science</i> , 2018 , 21, e12647	4.5	12
54	Effector-dependent neglect and splenial disconnection: a spherical deconvolution tractography study. <i>Experimental Brain Research</i> , 2014 , 232, 3727-36	2.3	12
53	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. <i>Frontiers in Neuroanatomy</i> , 2019 , 13, 24	3.6	11
52	Visual brain plasticity induced by central and peripheral visual field loss. <i>Brain Structure and Function</i> , 2018 , 223, 3473-3485	4	11
51	Advanced lesion symptom mapping analyses and implementation as BCBtoolkit		10
50	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021 , 228, 117685	7.9	10
49	Influences of the early family environment and long-term vocabulary development on the structure of white matter pathways: A longitudinal investigation. <i>Developmental Cognitive Neuroscience</i> , 2020 , 42, 100767	5.5	9
48	A Lateralized Brain Network for Visuo-Spatial Attention. <i>Nature Precedings</i> , 2011 ,		8
47	Disrupted core-periphery structure of multimodal brain networks in Alzheimer's disease. <i>Network Neuroscience</i> , 2019 , 3, 635-652	5.6	7
46	Anterior Temporal Lobe Morphometry Predicts Categorization Ability. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 36	3.3	7
45	Different patterns of confabulation in left visuo-spatial neglect. <i>Experimental Brain Research</i> , 2018 , 236, 2037-2046	2.3	7
44	Mapping the principal gradient onto the corpus callosum. <i>NeuroImage</i> , 2020 , 223, 117317	7.9	7
43	White matter variability, cognition, and disorders: a systematic review. <i>Brain Structure and Function</i> , 2021 , 1	4	6
42	White matter variability, cognition, and disorders: a systematic review		6
41	Reply: Lesion network mapping: where do we go from here?. <i>Brain</i> , 2021 , 144, e6	11.2	6
40	Deformable anatomic templates embed knowledge into patient's brain images: Part 1. Construction and display. <i>Journal of Computer Assisted Tomography</i> , 2012 , 36, 354-9	2.2	5
39	Asymmetry of White Matter Pathways 2010 , 177-210		5

38	Anchoring the human olfactory system within a functional gradient. <i>NeuroImage</i> , 2020 , 216, 116863	7.9	4
37	Sex-specific effects of Val158Met polymorphism on corpus callosum structure: A whole-brain diffusion-weighted imaging study. <i>Brain and Behavior</i> , 2017 , 7, e00786	3.4	4
36	Occipital Intralobar fasciculi: a description, through tractography, of three forgotten tracts. <i>Communications Biology</i> , 2021 , 4, 433	6.7	4
35	Structural brain disconnectivity mapping of post-stroke fatigue. <i>NeuroImage: Clinical</i> , 2021 , 30, 102635	5.3	4
34	Reading music and words: The anatomical connectivity of musicians' visual cortex. <i>NeuroImage</i> , 2020 , 212, 116666	7.9	3
33	White matter correlates of hemi-face dominance in happy and sad expression. <i>Brain Structure and Function</i> , 2020 , 225, 1379-1388	4	3
32	An ancestral anatomical and spatial bias for visually guided behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2251-2252	11.5	3
31	One size fits all does not apply to brain lateralisation: Comment on "Phenotypes in hemispheric functional segregation? Perspectives and challenges" by Guy Vingerhoets. <i>Physics of Life Reviews</i> , 2019 , 30, 30-33	2.1	3
30	Subcortical Anatomy of the Default Mode Network: a functional and structural connectivity study		3
29	Recovery of neural dynamics criticality in personalized whole brain models of stroke		2
28	Superoanterior Fasciculus (SAF): Novel fiber tract revealed by diffusion MRI fiber tractography		2
27	The architecture of functional lateralisation and its relationship to callosal connectivity in the human brain		2
26	The role of diffusion MRI in neuroscience		2
25	Anosognosia for theory of mind deficits: A single case study and a review of the literature. <i>Neuropsychologia</i> , 2020 , 148, 107641	3.2	2
24	Reply: Lesion network mapping predicts post-stroke behavioural deficits and improves localization. <i>Brain</i> , 2021 , 144, e36	11.2	2
23	White matter abnormalities of right hemisphere attention networks contribute to visual hallucinations in dementia with Lewy bodies. <i>Cortex</i> , 2021 , 139, 86-98	3.8	2
22	Towards metabolic disconnection - symptom mapping. <i>Brain</i> , 2020 , 143, 718-721	11.2	1
21	P2-192: ADVANCED DIFFUSION WEIGHTING IMAGING (DWI) TRACTOGRAPHY OF THE LIMBIC SYSTEM: NOVEL BIOMARKERS OF NEURODEGENERATIVE CHANGES DURING PROGRESSION/CONVERSION FROM COGNITIVE NORMALITY TO AD DEMENTIA 2014 , 10, P541-P542		1

20	IC-P-068: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS 2014 , 10, P37-P38		1
19	Brain disconnections link structural connectivity with function and behaviour		1
18	Occipital Intralobar fasciculi and a novel description of three forgotten tracts		1
17	Recovery of balance and gait after stroke is deteriorated by confluent white matter hyperintensities: Cohort study. <i>Annals of Physical and Rehabilitation Medicine</i> , 2021 , 65, 101488	3.8	1
16	Mapping lesion, structural disconnection, and functional disconnection to symptoms in semantic aphasia		1
15	Effective connectivity extracts clinically relevant prognostic information from resting state activity in stroke. <i>Brain Communications</i> , 2021 , 3, fcab233	4.5	1
14	Effective connectivity extracts clinically relevant prognostic information from resting state activity in stroke		1
13	White matter correlates of hemi-face dominance in happy and sad expression		1
12	Unravelling the Neural Basis of Spatial Delusions After Stroke. <i>Annals of Neurology</i> , 2021 , 89, 1181-1194	9.4	1
11	A neuroscientific approach to increase gender equality. <i>Nature Human Behaviour</i> , 2019 , 3, 1238-1239	12.8	1
10	Functionnectome: a framework to analyse the contribution of brain circuits to fMRI		1
9	Functionnectome as a framework to analyse the contribution of brain circuits to fMRI. <i>Communications Biology</i> , 2021 , 4, 1035	6.7	1
8	A novel stroke lesion network mapping approach: improved accuracy yet still low deficit prediction. <i>Brain Communications</i> , 2021 , 3, fcab259	4.5	0
7	Maladaptive compensation of right fusiform gyrus in developmental dyslexia: A hub-based white matter network analysis. <i>Cortex</i> , 2021 , 145, 57-66	3.8	0
6	The squirrel monkey model in clinical neuroscience. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 128, 152-164	9	0
5	P1-243: A SELECTIVE AGEING EFFECT ON THE FRONTAL LOBE CONNECTIONS 2014 , 10, P394-P395		
4	IC-P-067: ADVANCED DIFFUSION WEIGHTING IMAGING (DWI) TRACTOGRAPHY OF THE LIMBIC SYSTEM: NOVEL BIOMARKERS OF NEURODEGENERATIVE CHANGES DURING PROGRESSION/CONVERSION FROM COGNITIVE NORMALITY TO AD DEMENTIA 2014 , 10, P37-P37		
3	New insights into neurocognition provided by brain mapping: visuospatial cognition 2011 , 155-166		

2 White Matter **2022**, 163-177

1 White Matter Variability, Cognition, and Disorders **2022**, 233-241