

Christophe Phillips

List of Publications by Citations

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142
papers

12,520
citations

57
h-index

111
g-index

159
ext. papers

14,597
ext. citations

6.5
avg, IF

5.75
L-index

#	Paper	IF	Citations
142	Experience-dependent changes in cerebral activation during human REM sleep. <i>Nature Neuroscience</i> , 2000 , 3, 831-6	25.5	580
141	Classical and Bayesian inference in neuroimaging: applications. <i>NeuroImage</i> , 2002 , 16, 484-512	7.9	576
140	Are spatial memories strengthened in the human hippocampus during slow wave sleep?. <i>Neuron</i> , 2004 , 44, 535-45	13.9	560
139	Breakdown of within- and between-network resting state functional magnetic resonance imaging connectivity during propofol-induced loss of consciousness. <i>Anesthesiology</i> , 2010 , 113, 1038-53	4.3	462
138	Classical and Bayesian inference in neuroimaging: theory. <i>NeuroImage</i> , 2002 , 16, 465-83	7.9	456
137	Multiple sparse priors for the M/EEG inverse problem. <i>NeuroImage</i> , 2008 , 39, 1104-20	7.9	451
136	Baseline brain activity fluctuations predict somatosensory perception in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12187-92	11.5	412
135	EEG and MEG data analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011 , 2011, 852961	3	398
134	Hemodynamic cerebral correlates of sleep spindles during human non-rapid eye movement sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13164-9	11.5	361
133	Perception of pain in the minimally conscious state with PET activation: an observational study. <i>Lancet Neurology</i> , 2008 , 7, 1013-20	24.1	331
132	Impaired effective cortical connectivity in vegetative state: preliminary investigation using PET. <i>NeuroImage</i> , 1999 , 9, 377-82	7.9	314
131	Spontaneous neural activity during human slow wave sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15160-5	11.5	303
130	Intrinsic brain activity in altered states of consciousness: how conscious is the default mode of brain function?. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1129, 119-29	6.5	297
129	Two distinct neuronal networks mediate the awareness of environment and of self. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 570-8	3.1	281
128	PRoNT: pattern recognition for neuroimaging toolbox. <i>Neuroinformatics</i> , 2013 , 11, 319-37	3.2	268
127	Propofol anesthesia and sleep: a high-density EEG study. <i>Sleep</i> , 2011 , 34, 283-91A	1.1	257
126	Functional connectivity in the default network during resting state is preserved in a vegetative but not in a brain dead patient. <i>Human Brain Mapping</i> , 2009 , 30, 2393-400	5.9	245

125	Learned material content and acquisition level modulate cerebral reactivation during posttraining rapid-eye-movements sleep. <i>NeuroImage</i> , 2003 , 20, 125-34	7.9	236
124	Brain functional integration decreases during propofol-induced loss of consciousness. <i>NeuroImage</i> , 2011 , 57, 198-205	7.9	198
123	Daytime light exposure dynamically enhances brain responses. <i>Current Biology</i> , 2006 , 16, 1616-21	6.3	188
122	Intrinsic functional connectivity differentiates minimally conscious from unresponsive patients. <i>Brain</i> , 2015 , 138, 2619-31	11.2	183
121	Sleep promotes the neural reorganization of remote emotional memory. <i>Journal of Neuroscience</i> , 2009 , 29, 5143-52	6.6	173
120	An empirical Bayesian solution to the source reconstruction problem in EEG. <i>NeuroImage</i> , 2005 , 24, 997-1011	7.9	158
119	MEG source localization under multiple constraints: an extended Bayesian framework. <i>NeuroImage</i> , 2006 , 30, 753-67	7.9	155
118	Anatomically informed basis functions for EEG source localization: combining functional and anatomical constraints. <i>NeuroImage</i> , 2002 , 16, 678-95	7.9	149
117	Impact of blindness onset on the functional organization and the connectivity of the occipital cortex. <i>Brain</i> , 2013 , 136, 2769-83	11.2	146
116	Homeostatic sleep pressure and responses to sustained attention in the suprachiasmatic area. <i>Science</i> , 2009 , 324, 516-9	33.3	145
115	Systematic regularization of linear inverse solutions of the EEG source localization problem. <i>NeuroImage</i> , 2002 , 17, 287-301	7.9	141
114	Cerebral correlates of delta waves during non-REM sleep revisited. <i>NeuroImage</i> , 2005 , 28, 14-21	7.9	136
113	Increased cerebral functional connectivity underlying the antinociceptive effects of hypnosis. <i>Cognitive Brain Research</i> , 2003 , 17, 255-62		135
112	Interplay between spontaneous and induced brain activity during human non-rapid eye movement sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15438-43	11.5	134
111	Spectral quality of light modulates emotional brain responses in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19549-54	11.5	124
110	Experience-dependent changes in cerebral functional connectivity during human rapid eye movement sleep. <i>Neuroscience</i> , 2001 , 105, 521-5	3.9	119
109	Identifying the default-mode component in spatial IC analyses of patients with disorders of consciousness. <i>Human Brain Mapping</i> , 2012 , 33, 778-96	5.9	103
108	The Fate of Incoming Stimuli during NREM Sleep is Determined by Spindles and the Phase of the Slow Oscillation. <i>Frontiers in Neurology</i> , 2012 , 3, 40	4.1	101

107	Abnormal neural filtering of irrelevant visual information in depression. <i>Journal of Neuroscience</i> , 2009 , 29, 1395-403	6.6	100
106	Local modulation of human brain responses by circadian rhythmicity and sleep debt. <i>Science</i> , 2016 , 353, 687-90	33.3	100
105	Biased binomial assessment of cross-validated estimation of classification accuracies illustrated in diagnosis predictions. <i>NeuroImage: Clinical</i> , 2014 , 4, 687-94	5.3	92
104	EEG-BIDS, an extension to the brain imaging data structure for electroencephalography. <i>Scientific Data</i> , 2019 , 6, 103	8.2	89
103	Metabolic activity in external and internal awareness networks in severely brain-damaged patients. <i>Journal of Rehabilitation Medicine</i> , 2012 , 44, 487-94	3.4	89
102	Circadian regulation of human cortical excitability. <i>Nature Communications</i> , 2016 , 7, 11828	17.4	89
101	Valuing one's self: medial prefrontal involvement in epistemic and emotive investments in self-views. <i>Cerebral Cortex</i> , 2012 , 22, 659-67	5.1	84
100	Interaction between hippocampal and striatal systems predicts subsequent consolidation of motor sequence memory. <i>PLoS ONE</i> , 2013 , 8, e59490	3.7	83
99	Selecting forward models for MEG source-reconstruction using model-evidence. <i>NeuroImage</i> , 2009 , 46, 168-76	7.9	82
98	Variational Bayesian inversion of the equivalent current dipole model in EEG/MEG. <i>NeuroImage</i> , 2008 , 39, 728-41	7.9	78
97	Bayesian estimation of evoked and induced responses. <i>Human Brain Mapping</i> , 2006 , 27, 722-35	5.9	76
96	Depression alters "top-down" visual attention: a dynamic causal modeling comparison between depressed and healthy subjects. <i>NeuroImage</i> , 2011 , 54, 1662-8	7.9	74
95	Hypnotic modulation of resting state fMRI default mode and extrinsic network connectivity. <i>Progress in Brain Research</i> , 2011 , 193, 309-22	2.9	74
94	hMRI - A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019 , 194, 191-210	7.9	73
93	Blue light stimulates cognitive brain activity in visually blind individuals. <i>Journal of Cognitive Neuroscience</i> , 2013 , 25, 2072-85	3.1	71
92	"Relevance vector machine" consciousness classifier applied to cerebral metabolism of vegetative and locked-in patients. <i>NeuroImage</i> , 2011 , 56, 797-808	7.9	62
91	Memory reactivation during rapid eye movement sleep promotes its generalization and integration in cortical stores. <i>Sleep</i> , 2014 , 37, 1061-75, 1075A-1075B	1.1	61
90	Attention supports verbal short-term memory via competition between dorsal and ventral attention networks. <i>Cerebral Cortex</i> , 2012 , 22, 1086-97	5.1	61

89	Brains creating stories of selves: the neural basis of autobiographical reasoning. <i>Social Cognitive and Affective Neuroscience</i> , 2014 , 9, 646-52	4	60
88	Cerebral functional connectivity periodically (de)synchronizes with anatomical constraints. <i>Brain Structure and Function</i> , 2016 , 221, 2985-97	4	59
87	Seasonality in human cognitive brain responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3066-71	11.5	59
86	Multiclass classification of FDG PET scans for the distinction between Parkinson's disease and atypical parkinsonian syndromes. <i>NeuroImage: Clinical</i> , 2013 , 2, 883-93	5.3	57
85	Consciousness and cerebral baseline activity fluctuations. <i>Human Brain Mapping</i> , 2008 , 29, 868-74	5.9	56
84	Implicit oculomotor sequence learning in humans: Time course of offline processing. <i>Brain Research</i> , 2006 , 1090, 163-71	3.7	55
83	Circadian preference modulates the neural substrate of conflict processing across the day. <i>PLoS ONE</i> , 2012 , 7, e29658	3.7	53
82	Neural correlates of performance variability during motor sequence acquisition. <i>NeuroImage</i> , 2012 , 60, 324-31	7.9	52
81	Cross-Modal Decoding of Neural Patterns Associated with Working Memory: Evidence for Attention-Based Accounts of Working Memory. <i>Cerebral Cortex</i> , 2016 , 26, 166-79	5.1	47
80	Photic memory for executive brain responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6087-91	11.5	47
79	Mapping track density changes in nigrostriatal and extranigral pathways in Parkinson's disease. <i>NeuroImage</i> , 2014 , 99, 498-508	7.9	47
78	Brain function in the vegetative state. <i>Acta Neurologica Belgica</i> , 2002 , 102, 177-85	1.5	47
77	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016 , 6, 33661	4.9	46
76	Modulation of brain activity during a Stroop inhibitory task by the kind of cognitive control required. <i>PLoS ONE</i> , 2012 , 7, e41513	3.7	45
75	Cerebral responses and role of the prefrontal cortex in conditioned pain modulation: an fMRI study in healthy subjects. <i>Behavioural Brain Research</i> , 2015 , 281, 187-98	3.4	44
74	Embedding Anatomical or Functional Knowledge in Whole-Brain Multiple Kernel Learning Models. <i>Neuroinformatics</i> , 2018 , 16, 117-143	3.2	43
73	Differential effects of aging on the neural correlates of recollection and familiarity. <i>Cortex</i> , 2013 , 49, 1585-97	3.8	42
72	A prominent role for amygdaloid complexes in the Variability in Heart Rate (VHR) during Rapid Eye Movement (REM) sleep relative to wakefulness. <i>NeuroImage</i> , 2006 , 32, 1008-15	7.9	40

71	The impact of visual perceptual learning on sleep and local slow-wave initiation. <i>Journal of Neuroscience</i> , 2013 , 33, 3323-31	6.6	39
70	fMRI artefact rejection and sleep scoring toolbox. <i>Computational Intelligence and Neuroscience</i> , 2011 , 2011, 598206	3	39
69	The Dorsal Attention Network Reflects Both Encoding Load and Top-down Control during Working Memory. <i>Journal of Cognitive Neuroscience</i> , 2018 , 30, 144-159	3.1	34
68	Influence of acute sleep loss on the neural correlates of alerting, orientating and executive attention components. <i>Journal of Sleep Research</i> , 2012 , 21, 648-58	5.8	33
67	Sleep Spindles as an Electrographic Element: Description and Automatic Detection Methods. <i>Neural Plasticity</i> , 2016 , 2016, 6783812	3.3	33
66	The effect of clonidine infusion on distribution of regional cerebral blood flow in volunteers. <i>Anesthesia and Analgesia</i> , 2008 , 106, 899-909, table of contents	3.9	31
65	Rejection of pulse related artefact (PRA) from continuous electroencephalographic (EEG) time series recorded during functional magnetic resonance imaging (fMRI) using constraint independent component analysis (cICA). <i>NeuroImage</i> , 2009 , 44, 679-91	7.9	28
64	Multiparameter MRI quantification of microstructural tissue alterations in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2019 , 23, 101879	5.3	27
63	Correlation between resting state fMRI total neuronal activity and PET metabolism in healthy controls and patients with disorders of consciousness. <i>Brain and Behavior</i> , 2016 , 6, e00424	3.4	26
62	Exploration of the mechanisms underlying the ISPC effect: evidence from behavioral and neuroimaging data. <i>Neuropsychologia</i> , 2013 , 51, 1040-9	3.2	25
61	Influence of noise correction on intra- and inter-subject variability of quantitative metrics in diffusion kurtosis imaging. <i>PLoS ONE</i> , 2014 , 9, e94531	3.7	24
60	Item familiarity and controlled associative retrieval in Alzheimer's disease: an fMRI study. <i>Cortex</i> , 2013 , 49, 1566-84	3.8	23
59	Identifying endophenotypes of autism: a multivariate approach. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 60	3.5	23
58	Changes in effective connectivity by propofol sedation. <i>PLoS ONE</i> , 2013 , 8, e71370	3.7	23
57	Combining PET images and neuropsychological test data for automatic diagnosis of Alzheimer's disease. <i>PLoS ONE</i> , 2014 , 9, e88687	3.7	23
56	Decoding intracranial EEG data with multiple kernel learning method. <i>Journal of Neuroscience Methods</i> , 2016 , 261, 19-28	3	22
55	Concurrent synaptic and systems memory consolidation during sleep. <i>Journal of Neuroscience</i> , 2013 , 33, 10182-90	6.6	22
54	Sleep stabilizes visuomotor adaptation memory: a functional magnetic resonance imaging study. <i>Journal of Sleep Research</i> , 2013 , 22, 144-54	5.8	22

53	A finite-element reciprocity solution for EEG forward modeling with realistic individual head models. <i>NeuroImage</i> , 2014 , 103, 542-551	7.9	21
52	Decoding semi-constrained brain activity from FMRI using support vector machines and gaussian processes. <i>PLoS ONE</i> , 2012 , 7, e35860	3.7	21
51	Benevolent sexism alters executive brain responses. <i>NeuroReport</i> , 2013 , 24, 572-7	1.7	21
50	Multivariate Analysis of F-DMFP PET Data to Assist the Diagnosis of Parkinsonism. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 23	3.9	19
49	Age-related decrease in cortical excitability circadian variations during sleep loss and its links with cognition. <i>Neurobiology of Aging</i> , 2019 , 78, 52-63	5.6	19
48	Automatic artifacts and arousals detection in whole-night sleep EEG recordings. <i>Journal of Neuroscience Methods</i> , 2016 , 258, 124-33	3	18
47	Anosognosia and default mode subnetwork dysfunction in Alzheimer's disease. <i>Human Brain Mapping</i> , 2019 , 40, 5330-5340	5.9	17
46	Cortical reactivations during sleep spindles following declarative learning. <i>NeuroImage</i> , 2019 , 195, 104-112	7.9	17
45	The neural bases of proactive and reactive control processes in normal aging. <i>Behavioural Brain Research</i> , 2017 , 320, 504-516	3.4	16
44	Human brain patterns underlying vigilant attention: impact of sleep debt, circadian phase and attentional engagement. <i>Scientific Reports</i> , 2018 , 8, 970	4.9	16
43	Cognitive brain responses during circadian wake-promotion: evidence for sleep-pressure-dependent hypothalamic activations. <i>Scientific Reports</i> , 2017 , 7, 5620	4.9	16
42	Altered white matter architecture in BDNF met carriers. <i>PLoS ONE</i> , 2013 , 8, e69290	3.7	15
41	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018 , 175, 354-364	7.9	14
40	Evidence for a role of a cortico-subcortical network for automatic and unconscious motor inhibition of manual responses. <i>PLoS ONE</i> , 2012 , 7, e48007	3.7	13
39	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019 , 25, 104132	1.2	12
38	Localizing and Comparing Weight Maps Generated from Linear Kernel Machine Learning Models 2013 ,		12
37	Fighting Sleep at Night: Brain Correlates and Vulnerability to Sleep Loss. <i>Annals of Neurology</i> , 2015 , 78, 235-47	9.4	11
36	Cerebral Activity Associated with Transient Sleep-Facilitated Reduction in Motor Memory Vulnerability to Interference. <i>Scientific Reports</i> , 2016 , 6, 34948	4.9	10

35	Exploring scoring methods for research studies: Accuracy and variability of visual and automated sleep scoring. <i>Journal of Sleep Research</i> , 2020 , 29, e12994	5.8	10
34	Response to Comment on "Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area". <i>Science</i> , 2010 , 328, 309-309	33.3	9
33	Random Forests Based Group Importance Scores and Their Statistical Interpretation: Application for Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2018 , 12, 411	5.1	8
32	Anisotropy Preserving DTI Processing. <i>International Journal of Computer Vision</i> , 2014 , 107, 58-74	10.6	8
31	Alzheimer's disease patients activate attention networks in a short-term memory task. <i>NeuroImage: Clinical</i> , 2019 , 23, 101892	5.3	6
30	Monte Carlo simulations of the dose from imaging with GE eXplore 120 micro-CT using GATE. <i>Medical Physics</i> , 2015 , 42, 5711-9	4.4	5
29	PET-BIDS, an extension to the brain imaging data structure for positron emission tomography.. <i>Scientific Data</i> , 2022 , 9, 65	8.2	5
28	Characterization of a temporoparietal junction subtype of Alzheimer's disease. <i>Human Brain Mapping</i> , 2019 , 40, 4279-4286	5.9	4
27	Increased cerebral responses to salient transitions between alternating stimuli in chronic migraine with medication overuse headache and during migraine attacks. <i>Cephalalgia</i> , 2019 , 39, 988-999	6.1	4
26	Restoring statistical validity in group analyses of motion-corrupted MRI data.. <i>Human Brain Mapping</i> , 2022 ,	5.9	4
25	Neural Patterns in Linguistic Cortices Discriminate the Content of Verbal Working Memory. <i>Cerebral Cortex</i> , 2020 , 30, 2997-3014	5.1	4
24	PET-BIDS, an extension to the brain imaging data structure for positron emission tomography		4
23	Preserved wake-dependent cortical excitability dynamics predict cognitive fitness beyond age-related brain alterations. <i>Communications Biology</i> , 2019 , 2, 449	6.7	4
22	Voxel-Based quantitative MRI reveals spatial patterns of grey matter alteration in multiple sclerosis. <i>Human Brain Mapping</i> , 2021 , 42, 1003-1012	5.9	4
21	Combining Feature Extraction Methods to Assist the Diagnosis of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016 , 13, 831-7	3	3
20	Parkinson's disease multimodal imaging: F-DOPA PET, neuromelanin-sensitive and quantitative iron-sensitive MRI. <i>Npj Parkinsons Disease</i> , 2021 , 7, 57	9.7	3
19	Statistical tests for group comparison of manifold-valued data 2013 ,		2
18	Validation of an Automatic Arousal Detection Algorithm for Whole-Night Sleep EEG Recordings. <i>Clocks & Sleep</i> , 2020 , 2, 258-272	2.9	2

17	A parametric study of occupational radiation dose in interventional radiology by Monte-Carlo simulations. <i>Physica Medica</i> , 2020 , 78, 58-70	2.7	2
16	Multiparameter quantitative histological MRI values in high-grade gliomas: a potential biomarker of tumor progression. <i>Neuro-Oncology Practice</i> , 2020 , 7, 646-655	2.2	2
15	Positive Effect of Cognitive Reserve on Episodic Memory, Executive and Attentional Functions Taking Into Account Amyloid-Beta, Tau, and Apolipoprotein E Status. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 666181	5.3	2
14	Eyes Open on Sleep and Wake: In Vivo to In Silico Neural Networks. <i>Neural Plasticity</i> , 2016 , 2016, 14786843	3.3	2
13	Time course of cortical response complexity during extended wakefulness and its differential association with vigilance in young and older individuals. <i>Biochemical Pharmacology</i> , 2021 , 191, 114518	6	2
12	Automatic Differentiation between Alzheimer's Disease and Mild Cognitive Impairment Combining PET Data and Psychological Scores 2013 ,		1
11	Decoding Spontaneous Brain Activity from fMRI Using Gaussian Processes: Tracking Brain Reactivation 2012 ,		1
10	qMRI-BIDS: an extension to the brain imaging data structure for quantitative magnetic resonance imaging data		1
9	How cognition affects perception: Brain activity modelling to unravel top-down dynamics. <i>Behavioral and Brain Sciences</i> , 2016 , 39, e238	0.9	1
8	Alzheimer's disease genetic risk and sleep phenotypes in healthy young men: association with more slow waves and daytime sleepiness. <i>Sleep</i> , 2021 , 44,	1.1	1
7	Exploratory Radiomic Analysis of Conventional vs. Quantitative Brain MRI: Toward Automatic Diagnosis of Early Multiple Sclerosis. <i>Frontiers in Neuroscience</i> , 2021 , 15, 679941	5.1	1
6	Shamo: A Tool for Electromagnetic Modeling, Simulation and Sensitivity Analysis of the Head.. <i>Neuroinformatics</i> , 2022 , 1	3.2	1
5	MEG Source Localization under Multiple Constraints: An Extended Bayesian Framework 2007 , 383-395		0
4	Associations Between Cognitive Complaints, Memory Performance, Mood, and Amyloid- β Accumulation in Healthy Amyloid Negative Late-Midlife Individuals. <i>Journal of Alzheimer's Disease</i> , 2021 , 83, 127-141	4.3	0
3	Metabolism of no-carrier-added 2-[¹⁸ F]fluoro-L-tyrosine in rats. <i>BMC Medical Physics</i> , 2008 , 8, 4		
2	An in computo investigation of the Landau-Kleffner syndrome. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2730-4		
1	Beyond reduction with the representation: The need for causality with full complexity to unravel mental health. <i>Behavioral and Brain Sciences</i> , 2019 , 42, e6	0.9	