Maurizio Corbetta

List of Publications by Citations

238 papers	46,404 citations	75 h-index	215 g-index
281 ext. papers	54,264 ext. citations	7.4 avg, IF	7.69 L-index

#	Paper	IF	Citations
238	Control of goal-directed and stimulus-driven attention in the brain. *Nature Reviews Neuroscience*, **2002**, 3, 201-15	13.5	8283
237	The human brain is intrinsically organized into dynamic, anticorrelated functional networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 9673-8	11.5	6098
236	The reorienting system of the human brain: from environment to theory of mind. *Neuron*, **2008**, 58, 306-24	15.9	2635
235	Dynamic functional connectivity: promise, issues, and interpretations. *NeuroImage*, **2013**, 80, 360-78	7.9	1571
234	Spontaneous neuronal activity distinguishes human dorsal and ventral attention systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10046-51	11.5	1515
233	Common Blood Flow Changes across Visual Tasks: II. Decreases in Cerebral Cortex. *Journal of Cognitive Neuroscience*, **1997**, 9, 648-63	3.1	1462
232	Voluntary orienting is dissociated from target detection in human posterior parietal cortex. *Nature Neuroscience*, **2000**, 3, 292-7	25.5	1458
231	Electrophysiological signatures of resting state networks in the human brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 13170-5	11.5	1415
230	A common network of functional areas for attention and eye movements. *Neuron*, **1998**, 21, 761-73	13.9	1348
229	Spatial neglect and attention networks. *Annual Review of Neuroscience*, **2011**, 34, 569-99	17	796
228	Function in the human connectome: task-fMRI and individual differences in behavior. *NeuroImage*, **2013**, 80, 169-89	7.9	779
227	Breakdown of functional connectivity in frontoparietal networks underlies behavioral deficits in spatial neglect. *Neuron*, **2007**, 53, 905-18	13.9	729
226	Large-scale cortical correlation structure of spontaneous oscillatory activity. *Nature Neuroscience*, **2012**, 15, 884-90	25.5	674
225	Neural basis and recovery of spatial attention deficits in spatial neglect. *Nature Neuroscience*, **2005**, 8, 1603-10	25.5	652
224	Superior parietal cortex activation during spatial attention shifts and visual feature conjunction. *Science*, **1995**, 270, 802-5	33.3	613
223	Learning sculpts the spontaneous activity of the resting human brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 17558-63	11.5	589
222	Neural systems for visual orienting and their relationships to spatial working memory. *Journal of Cognitive Neuroscience*, **2002**, 14, 508-23	3.1	540

221	Temporal dynamics of spontaneous MEG activity in brain networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6040-5	11.5	531
220	Functional organization of human intraparietal and frontal cortex for attending, looking, and pointing. *Journal of Neuroscience*, **2003**, 23, 4689-99	6.6	522
219	Resting interhemispheric functional magnetic resonance imaging connectivity predicts performance after stroke. *Annals of Neurology*, **2010**, 67, 365-75	9.4	498
218	Extrastriate body area in human occipital cortex responds to the performance of motor actions. *Nature Neuroscience*, **2004**, 7, 542-8	25.5	482
217	An event-related functional magnetic resonance imaging study of voluntary and stimulus-driven orienting of attention. *Journal of Neuroscience*, **2005**, 25, 4593-604	6.6	436
216	Top-down control of human visual cortex by frontal and parietal cortex in anticipatory visual spatial attention. *Journal of Neuroscience*, **2008**, 28, 10056-61	6.6	408
215	Right hemisphere dominance during spatial selective attention and target detection occurs outside the dorsal frontoparietal network. *Journal of Neuroscience*, **2010**, 30, 3640-51	6.6	376
214	Episodic memory retrieval, parietal cortex, and the default mode network: functional and topographic analyses. *Journal of Neuroscience*, **2011**, 31, 4407-20	6.6	346
213	Frontoparietal cortex controls spatial attention through modulation of anticipatory alpha rhythms. *Journal of Neuroscience*, **2009**, 29, 5863-72	6.6	334
212	Resting-state functional connectivity emerges from structurally and dynamically shaped slow linear fluctuations. *Journal of Neuroscience*, **2013**, 33, 11239-52	6.6	333
211	Functional network dysfunction in anxiety and anxiety disorders. *Trends in Neurosciences*, **2012**, 35, 527-35	13.3	328
210	A cortical core for dynamic integration of functional networks in the resting human brain. *Neuron*, **2012**, 74, 753-64	13.9	319
209	Interaction of stimulus-driven reorienting and expectation in ventral and dorsal frontoparietal and basal ganglia-cortical networks. *Journal of Neuroscience*, **2009**, 29, 4392-407	6.6	307
208	Disruptions of network connectivity predict impairment in multiple behavioral domains after stroke. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4367-76	11.5	290
207	Areas involved in encoding and applying directional expectations to moving objects. *Journal of Neuroscience*, **1999**, 19, 9480-96	6.6	255
206	Common behavioral clusters and subcortical anatomy in stroke. *Neuron*, **2015**, 85, 927-41	13.9	240
205	The dynamical balance of the brain at rest. *Neuroscientist*, **2011**, 17, 107-23	7.6	223
204	Evolutionarily novel functional networks in the human brain?. *Journal of Neuroscience*, **2013**, 33, 3259-75	6.6	216

203	Why use a connectivity-based approach to study stroke and recovery of function?. *NeuroImage*, **2012**, 62, 2271-80	7.9	213
202	Increased functional connectivity indicates the severity of cognitive impairment in multiple sclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19066-71	11.5	201
201	Right TPJ deactivation during visual search: functional significance and support for a filter hypothesis. *Cerebral Cortex*, **2007**, 17, 2625-33	5.1	200
200	Individual variability in functional connectivity predicts performance of a perceptual task. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3516-21	11.5	198
199	Quantitative analysis of attention and detection signals during visual search. *Journal of Neurophysiology*, **2003**, 90, 3384-97	3.2	196
198	How local excitation-inhibition ratio impacts the whole brain dynamics. *Journal of Neuroscience*, **2014**, 34, 7886-98	6.6	180
197	Resting state network estimation in individual subjects. *NeuroImage*, **2013**, 82, 616-633	7.9	174
196	Data Quality Influences Observed Links Between Functional Connectivity and Behavior. *Cerebral Cortex*, **2017**, 27, 4492-4502	5.1	171
195	Sensory-motor mechanisms in human parietal cortex underlie arbitrary visual decisions. *Nature Neuroscience*, **2008**, 11, 1446-53	25.5	166
194	Upstream dysfunction of somatomotor functional connectivity after corticospinal damage in stroke. *Neurorehabilitation and Neural Repair*, **2012**, 26, 7-19	4.7	146
193	The contribution of the human posterior parietal cortex to episodic memory. *Nature Reviews Neuroscience*, **2017**, 18, 183-192	13.5	145
192	Human cortical mechanisms of visual attention during orienting and search. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1998**, 353, 1353-62	5.8	142
191	Resting-state temporal synchronization networks emerge from connectivity topology and heterogeneity. *PLoS Computational Biology*, **2015**, 11, e1004100	5	139
190	Common Blood Flow Changes across Visual Tasks: I. Increases in Subcortical Structures and Cerebellum but Not in Nonvisual Cortex. *Journal of Cognitive Neuroscience*, **1997**, 9, 624-47	3.1	139
189	Adding dynamics to the Human Connectome Project with MEG. *NeuroImage*, **2013**, 80, 190-201	7.9	132
188	Word retrieval learning modulates right frontal cortex in patients with left frontal damage. *Neuron*, **2002**, 36, 159-70	13.9	132
187	Large-scale brain networks account for sustained and transient activity during target detection. *NeuroImage*, **2009**, 44, 265-74	7.9	127
186	Clustering of resting state networks. *PLoS ONE*, **2012**, 7, e40370	3.7	124

185	Natural scenes viewing alters the dynamics of functional connectivity in the human brain. *Neuron*, **2013**, 79, 782-97	13.9	121
184	Functional connectivity in resting-state fMRI: is linear correlation sufficient?. *NeuroImage*, **2011**, 54, 2218-25	7.9	119
183	Preserved speech abilities and compensation following prefrontal damage. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 1249-53	11.5	117
182	Large-scale changes in network interactions as a physiological signature of spatial neglect. *Brain*, **2014**, 137, 3267-83	11.2	114
181	Dynamic reorganization of human resting-state networks during visuospatial attention. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8112-7	11.5	109
180	Two attentional processes in the parietal lobe. *Cerebral Cortex*, **2002**, 12, 1124-31	5.1	107
179	The role of impaired neuronal communication in neurological disorders. *Current Opinion in Neurology*, **2007**, 20, 655-60	7.1	102
178	Re-emergence of modular brain networks in stroke recovery. *Cortex*, **2018**, 101, 44-59	3.8	101
177	A novel data-driven approach to preoperative mapping of functional cortex using resting-state functional magnetic resonance imaging. *Neurosurgery*, **2013**, 73, 969-82; discussion 982-3	3.2	100
176	A behavioral analysis of spatial neglect and its recovery after stroke. *Frontiers in Human Neuroscience*, **2011**, 5, 29	3.3	97
175	Attention to memory and the environment: functional specialization and dynamic competition in human posterior parietal cortex. *Journal of Neuroscience*, **2010**, 30, 8445-56	6.6	95
174	Asymmetry of anticipatory activity in visual cortex predicts the locus of attention and perception. *Journal of Neuroscience*, **2007**, 27, 14424-33	6.6	94
173	Brain signals for spatial attention predict performance in a motion discrimination task. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17810-5	11.5	93
172	Frequency specific interactions of MEG resting state activity within and across brain networks as revealed by the multivariate interaction measure. *NeuroImage*, **2013**, 79, 172-83	7.9	91
171	Separate modulations of human V1 associated with spatial attention and task structure. *Neuron*, **2006**, 51, 135-47	13.9	90
170	Impaired and facilitated functional networks in temporal lobe epilepsy. *NeuroImage: Clinical*, **2013**, 2, 862-72	5.3	87
169	The architecture of functional lateralisation and its relationship to callosal connectivity in the human brain. *Nature Communications*, **2019**, 10, 1417	17.4	85
168	Neurological principles and rehabilitation of action disorders: rehabilitation interventions. *Neurorehabilitation and Neural Repair*, **2011**, 25, 33S-43S	4.7	84

167	Visuospatial reorienting signals in the human temporo-parietal junction are independent of response selection. *European Journal of Neuroscience*, **2006**, 23, 591-6	3.5	83
166	A functional MRI study of preparatory signals for spatial location and objects. *Neuropsychologia*, **2005**, 43, 2041-56	3.2	79
165	Interspecies activity correlations reveal functional correspondence between monkey and human brain areas. *Nature Methods*, **2012**, 9, 277-82	21.6	78
164	Distribution of activity across the monkey cerebral cortical surface, thalamus and midbrain during rapid, visually guided saccades. *Cerebral Cortex*, **2006**, 16, 447-59	5.1	76
163	Frequency-specific electrophysiologic correlates of resting state fMRI networks. *NeuroImage*, **2017**, 149, 446-457	7.9	73
162	Functional reorganization and stability of somatosensory-motor cortical topography in a tetraplegic subject with late recovery. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 17066-71	11.5	73
161	Frequency-specific mechanism links human brain networks for spatial attention. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19585-90	11.5	72
160	A signal-processing pipeline for magnetoencephalography resting-state networks. *Brain Connectivity*, **2011**, 1, 49-59	2.7	71
159	A Human Depression Circuit Derived From Focal Brain Lesions. *Biological Psychiatry*, **2019**, 86, 749-758	7.9	70
158	Is the posner reaction time test more accurate than clinical tests in detecting left neglect in acute and chronic stroke?. *Archives of Physical Medicine and Rehabilitation*, **2009**, 90, 2081-8	2.8	70
157	The effects of hemodynamic lag on functional connectivity and behavior after stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 2162-2176	7.3	66
156	Functional connectivity and neurological recovery. *Developmental Psychobiology*, **2012**, 54, 239-53	3	64
155	Anticipatory and stimulus-evoked blood oxygenation level-dependent modulations related to spatial attention reflect a common additive signal. *Journal of Neuroscience*, **2009**, 29, 10671-82	6.6	63
154	The McCollough effect reveals orientation discrimination in a case of cortical blindness. *Current Biology*, **1995**, 5, 545-51	6.3	62
153	Normalization of network connectivity in hemispatial neglect recovery. *Annals of Neurology*, **2016**, 80, 127-41	9.4	62
152	Functional evolution of new and expanded attention networks in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9454-9	11.5	60
151	The evolution of the temporoparietal junction and posterior superior temporal sulcus. *Cortex*, **2019** , 118, 38-50	3.8	59
150	Domain-general signals in the cingulo-opercular network for visuospatial attention and episodic memory. *Journal of Cognitive Neuroscience*, **2014**, 26, 551-68	3.1	59

149	Searching for activations that generalize over tasks. *Human Brain Mapping*, **1997**, 5, 317-22	5.9	59
148	Anatomical correlates of directional hypokinesia in patients with hemispatial neglect. *Journal of Neuroscience*, **2007**, 27, 4045-51	6.6	59
147	Post-stroke deficit prediction from lesion and indirect structural and functional disconnection. *Brain*, **2020**, 143, 2173-2188	11.2	58
146	Cortical cores in network dynamics. *NeuroImage*, **2018**, 180, 370-382	7.9	58
145	Neurological principles and rehabilitation of action disorders: common clinical deficits. *Neurorehabilitation and Neural Repair*, **2011**, 25, 21S-32S	4.7	58
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143	Oculomotor activity and visual spatial attention. *Behavioural Brain Research*, **1995**, 71, 81-8	3.4	58
142	Influence of stimulus salience and attentional demands on visual search patterns in hemispatial neglect. *Brain and Cognition*, **1997**, 34, 388-403	2.7	57
141	A human memory circuit derived from brain lesions causing amnesia. *Nature Communications*, **2019**, 10, 3497	17.4	56
140	Comment on "Modafinil Shifts Human Locus Coeruleus to Low-Tonic, High-Phasic Activity During Functional MRI" and "Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area". *Science*, **2010**, 328, 309-309	33.3	56
139	Brain connectivity and neurological disorders after stroke. *Current Opinion in Neurology*, **2016**, 29, 706-713	7.1	56
138	Dissociated functional connectivity profiles for motor and attention deficits in acute right-hemisphere stroke. *Brain*, **2016**, 139, 2024-38	11.2	54
137	Structural Disconnections Explain Brain Network Dysfunction after Stroke. *Cell Reports*, **2019**, 28, 2527-2540.e9	8.0	53
136	Resting state functional connectivity of the ventral attention network in children with a history of depression or anxiety. *Journal of the American Academy of Child and Adolescent Psychiatry*, **2013**, 52, 1326-1336.e5	7.3	48
135	Topographic organization of macaque area LIP. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4728-33	11.5	48
134	Interference with episodic memory retrieval following transcranial stimulation of the inferior but not the superior parietal lobule. *Neuropsychologia*, **2013**, 51, 900-6	3.2	47
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132	Decreased integration and information capacity in stroke measured by whole brain models of resting state activity. *Brain*, **2017**, 140, 1068-1085	11.2	46

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130	Prediction of discharge walking ability from initial assessment in a stroke inpatient rehabilitation facility population. *Archives of Physical Medicine and Rehabilitation*, **2012**, 93, 1441-7	2.8	44
129	Measuring functional connectivity in stroke: Approaches and considerations. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 2665-2678	7.3	41
128	Abnormal White Matter Blood-Oxygen-Level-Dependent Signals in Chronic Mild Traumatic Brain Injury. *Journal of Neurotrauma*, **2015**, 32, 1254-71	5.4	41
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124	Measuring Granger causality between cortical regions from voxelwise fMRI BOLD signals with LASSO. *PLoS Computational Biology*, **2012**, 8, e1002513	5	40
123	Changing human visual field organization from early visual to extra-occipital cortex. *PLoS ONE*, **2007**, 2, e452	3.7	40
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121	On the low dimensionality of behavioral deficits and alterations of brain network connectivity after focal injury. *Cortex*, **2018**, 107, 229-237	3.8	37
120	Anatomical segregation of visual selection mechanisms in human parietal cortex. *Journal of Neuroscience*, **2013**, 33, 6225-9	6.6	36
119	Effective connectivity inferred from fMRI transition dynamics during movie viewing points to a balanced reconfiguration of cortical interactions. *NeuroImage*, **2018**, 180, 534-546	7.9	35
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117	Warnings and caveats in brain controllability. *NeuroImage*, **2018**, 176, 83-91	7.9	34
116	Hemispatial neglect: clinic, pathogenesis, and treatment. *Seminars in Neurology*, **2014**, 34, 514-23	3.2	34
115	Is the extrastriate body area involved in motor actions?. *Nature Neuroscience*, **2005**, 8, 125-126	25.5	33
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113	Resting-state modulation of □rhythms by interference with angular gyrus activity. *Journal of Cognitive Neuroscience*, **2014**, 26, 107-19	3.1	32
112	Comment on "Modafinil shifts human locus coeruleus to low-tonic, high-phasic activity during functional MRI" and "Homeostatic sleep pressure and responses to sustained attention in the suprachiasmatic area". *Science*, **2010**, 328, 309; author reply 309	33.3	32
111	Electrophysiological correlates of stimulus-driven reorienting deficits after interference with right parietal cortex during a spatial attention task: a TMS-EEG study. *Journal of Cognitive Neuroscience*, **2012**, 24, 2363-71	3.1	32
110	Visual Learning Induces Changes in Resting-State fMRI Multivariate Pattern of Information. *Journal of Neuroscience*, **2015**, 35, 9786-98	6.6	31
109	Filling in the gaps: Anticipatory control of eye movements in chronic mild traumatic brain injury. *NeuroImage: Clinical*, **2015**, 8, 210-23	5.3	31
108	A Comparison of Shallow and Deep Learning Methods for Predicting Cognitive Performance of Stroke Patients From MRI Lesion Images. *Frontiers in Neuroinformatics*, **2019**, 13, 53	3.9	30
107	Task and Regions Specific Top-Down Modulation of Alpha Rhythms in Parietal Cortex. *Cerebral Cortex*, **2017**, 27, 4815-4822	5.1	29
106	A New Modular Brain Organization of the BOLD Signal during Natural Vision. *Cerebral Cortex*, **2018**, 28, 3065-3081	5.1	27
105	Distinct representations for shifts of spatial attention and changes of reward contingencies in the human brain. *Cortex*, **2013**, 49, 1733-49	3.8	27
104	Cerebellar activity switches hemispheres with cerebral recovery in aphasia. *Neuropsychologia*, **2006**, 44, 171-7	3.2	27
103	The circuitry of abulia: insights from functional connectivity MRI. *NeuroImage: Clinical*, **2014**, 6, 320-6	5.3	26
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101	Multimodal integration of fMRI and EEG data for high spatial and temporal resolution analysis of brain networks. *Brain Topography*, **2010**, 23, 150-8	4.3	25
100	Sequential activation of human oculomotor centers during planning of visually-guided eye movements: a combined fMRI-MEG study. *Frontiers in Human Neuroscience*, **2007**, 1, 1	3.3	25
99	Data-driven analysis of analogous brain networks in monkeys and humans during natural vision. *NeuroImage*, **2012**, 63, 1107-18	7.9	24
98	Clinician adherence to a standardized assessment battery across settings and disciplines in a poststroke rehabilitation population. *Archives of Physical Medicine and Rehabilitation*, **2013**, 94, 1048-53.e1	2.8	23
97	Memory accumulation mechanisms in human cortex are independent of motor intentions. *Journal of Neuroscience*, **2014**, 34, 6993-7006	6.6	23
96	The brain recovery core: building a system of organized stroke rehabilitation and outcomes assessment across the continuum of care. *Journal of Neurologic Physical Therapy*, **2011**, 35, 194-201	4.1	23

95	Positron emission tomography as a tool to study human vision and attention. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 10901-3	11.5	23
94	Damage to the shortest structural paths between brain regions is associated with disruptions of resting-state functional connectivity after stroke. *NeuroImage*, **2020**, 210, 116589	7.9	22
93	Decision and action planning signals in human posterior parietal cortex during delayed perceptual choices. *European Journal of Neuroscience*, **2014**, 39, 1370-83	3.5	22
92	Dynamics of EEG rhythms support distinct visual selection mechanisms in parietal cortex: a simultaneous transcranial magnetic stimulation and EEG study. *Journal of Neuroscience*, **2015**, 35, 721-30	6.6	21
91	Top-down cortical interactions in visuospatial attention. *Brain Structure and Function*, **2017**, 222, 3127-3145	4	20
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88	The secret life of predictive brains: what's spontaneous activity for?. *Trends in Cognitive Sciences*, **2021**, 25, 730-743	14	19
87	Eye position modulates retinotopic responses in early visual areas: a bias for the straight-ahead direction. *Brain Structure and Function*, **2015**, 220, 2587-601	4	18
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85	Homeostatic plasticity and emergence of functional networks in a whole-brain model at criticality. *Scientific Reports*, **2018**, 8, 15682	4.9	18
84	Distinct phase-amplitude couplings distinguish cognitive processes in human attention. *NeuroImage* , **2018**, 175, 111-121	7.9	17
83	A process for translating evidence-based aphasia treatment into clinical practice. *Aphasiology*, **2005** , 19, 411-422	1.6	16
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79	Attentional selection of moving objects by a serial process. *Vision Research*, **2006**, 46, 3403-12	2.1	14
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77	Descriptive data analysis examining how standardized assessments are used to guide post-acute discharge recommendations for rehabilitation services after stroke. *Physical Therapy*, **2015**, 95, 710-9	3.3	13
76	Brain mapping in a patient with congenital blindness - a case for multimodal approaches. *Frontiers in Human Neuroscience*, **2013**, 7, 431	3.3	13
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72	Magnetic stimulation of visual cortex impairs perceptual learning. *NeuroImage*, **2016**, 143, 250-255	7.9	12
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68	Brain PET and functional MRI: why simultaneously using hybrid PET/MR systems?. *Quarterly Journal of Nuclear Medicine and Molecular Imaging*, **2017**, 61, 345-359	1.4	12
67	Brain stimulation and brain lesions converge on common causal circuits in neuropsychiatric disease. *Nature Human Behaviour*, **2021**,	12.8	12
66	Selective attention modulates extrastriate visual regions in humans during visual feature discrimination and recognition. *Novartis Foundation Symposium*, **1991**, 163, 165-75; discussion 175-80		11
65	Task-evoked BOLD responses are normal in areas of diaschisis after stroke. *Neurorehabilitation and Neural Repair*, **2009**, 23, 52-7	4.7	10
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58	Multiple Network Disconnection in Anosognosia for Hemiplegia. *Frontiers in Systems Neuroscience*, **2020**, 14, 21	3.5	8
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55	Orienting to the EnvironmentSeparate Contributions of Dorsal and Ventral Frontoparietal Attention Networks **2012**, 100-130		7
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