Mohamed L Seghier

List of Publications by Year
in descending order

111 papers	10,641 citations	36303 51 h-index	34986 98 g-index
117 all docs	117 docs citations	117 times ranked	11911 citing authors

#	Article	IF	Citations
1	The Angular Gyrus. Neuroscientist, 2013, 19, 43-61.	3.5	1,226
2	A network of occipito-temporal face-sensitive areas besides the right middle fusiform gyrus is necessary for normal face processing. Brain, 2003, 126, 2381-2395.	7.6	611
3	Laterality index in functional MRI: methodological issues. Magnetic Resonance Imaging, 2008, 26, 594-601.	1.8	399
4	The voices of wrath: brain responses to angry prosody in meaningless speech. Nature Neuroscience, 2005, 8, 145-146.	14.8	384
5	An anatomical signature for literacy. Nature, 2009, 461, 983-986.	27.8	362
6	Emotion and attention interactions in social cognition: Brain regions involved in processing anger prosody. NeuroImage, 2005, 28, 848-858.	4.2	350
7	Lesion identification using unified segmentation-normalisation models and fuzzy clustering. NeuroImage, 2008, 41, 1253-1266.	4.2	335
8	Language Control and Lexical Competition in Bilinguals: An Event-Related fMRI Study. Cerebral Cortex, 2008, 18, 1496-1505.	2.9	327
9	Discriminating emotional faces without primary visual cortices involves the right amygdala. Nature Neuroscience, 2005, 8, 24-25.	14.8	284
10	A guide to group effective connectivity analysis, part 2: Second level analysis with PEB. NeuroImage, 2019, 200, 12-25.	4.2	267
11	A guide to group effective connectivity analysis, part 1: First level analysis with DCM for fMRI. NeuroImage, 2019, 200, 174-190.	4.2	242
12	Functional Subdivisions in the Left Angular Gyrus Where the Semantic System Meets and Diverges from the Default Network. Journal of Neuroscience, 2010, 30, 16809-16817.	3.6	231
13	The left superior temporal gyrus is a shared substrate for auditory short-term memory and speech comprehension: evidence from 210 patients with stroke. Brain, 2009, 132, 3401-3410.	7.6	230
14	Where, When and Why Brain Activation Differs for Bilinguals and Monolinguals during Picture Naming and Reading Aloud. Cerebral Cortex, 2012, 22, 892-902.	2.9	221
15	Interpreting and Utilising Intersubject Variability in Brain Function. Trends in Cognitive Sciences, 2018, 22, 517-530.	7.8	216
16	Predicting outcome and recovery after stroke with lesions extracted from MRI images. NeuroImage: Clinical, 2013, 2, 424-433.	2.7	207
17	Verbal and non-verbal intelligence changes in the teenage brain. Nature, 2011, 479, 113-116.	27.8	195
18	Intrauterine Growth Restriction Affects the Preterm Infant's Hippocampus. Pediatric Research, 2008, 63, 438-443.	2.3	187

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19	Variability of fMRI activation during a phonological and semantic language task in healthy subjects. Human Brain Mapping, 2004, 23, 140-155.	3.6	181
20	Large-scale DCMs for resting-state fMRI. Network Neuroscience, 2017, 1, 222-241.	2.6	146
21	Developmental dyslexia in Chinese and English populations: dissociating the effect of dyslexia from language differences. Brain, 2010, 133, 1694-1706.	7.6	142
22	Neural systems for orienting attention to the location of threat signals: An event-related fMRI study. NeuroImage, 2006, 31, 920-933.	4.2	141
23	View-independent coding of face identity in frontal and temporal cortices is modulated by familiarity: an event-related fMRI study. NeuroImage, 2005, 24, 1214-1224.	4.2	133
24	Predicting language outcome and recovery after stroke: the PLORAS system. Nature Reviews Neurology, 2010, 6, 202-210.	10.1	133
25	The Neural Substrates and Timing of Topâ€“Down Processes during Coarse-to-Fine Categorization of Visual Scenes: A Combined fMRI and ERP Study. Journal of Cognitive Neuroscience, 2010, 22, 2768-2780.	2.3	123
26	Four Functionally Distinct Regions in the Left Supramarginal Gyrus Support Word Processing. Cerebral Cortex, 2016, 26, 4212-4226.	2.9	119
27	Functional neuroimaging findings on the human perception of illusory contours. Neuroscience and Biobehavioral Reviews, 2006, 30, 595-612.	6.1	115
28	Portraits or People? Distinct Representations of Face Identity in the Human Visual Cortex. Journal of Cognitive Neuroscience, 2005, 17, 1043-1057.	2.3	114
29	Explaining Function with Anatomy: Language Lateralization and Corpus Callosum Size. Journal of Neuroscience, 2008, 28, 14132-14139.	3.6	102
30	Multiple Routes from Occipital to Temporal Cortices during Reading. Journal of Neuroscience, 2011, 31, 8239-8247.	3.6	100
31	The PLORAS Database: A data repository for Predicting Language Outcome and Recovery After Stroke. NeuroImage, 2016, 124, 1208-1212.	4.2	98
32	Combination of event-related fMRI and diffusion tensor imaging in an infant with perinatal stroke. NeuroImage, 2004, 21, 463-472.	4.2	93
33	Network discovery with large DCMs. NeuroImage, 2013, 68, 181-191.	4.2	89
34	Functional Heterogeneity within the Default Network during Semantic Processing and Speech Production. Frontiers in Psychology, 2012, 3, 281.	2.1	81
35	Inter-subject variability in the use of two different neuronal networks for reading aloud familiar words. NeuroImage, 2008, 42, 1226-1236.	4.2	79
36	Right hemisphere structural adaptation and changing language skills years after left hemisphere stroke. Brain, 2017, 140, 1718-1728.	7.6	79

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37	Comparing language outcomes in monolingual and bilingual stroke patients. Brain, 2015, 138, 1070-1083.	7.6	77
38	Ten problems and solutions when predicting individual outcome from lesion site after stroke. NeuroImage, 2017, 145, 200-208.	4.2	75
39	Anatomical variability of the lateral frontal lobe surface: implication for intersubject variability in language neuroimaging. NeuroImage, 2005, 24, 504-514.	4.2	74
40	Functional magnetic resonance imaging and diffusion tensor imaging in a case of central poststroke pain. Journal of Pain, 2005, 6, 208-212.	1.4	74
41	Explaining Left Lateralization for Words in the Ventral Occipitotemporal Cortex. Journal of Neuroscience, 2011, 31, 14745-14753.	3.6	72
42	Identifying abnormal connectivity in patients using Dynamic Causal Modelling of fMRI responses. Frontiers in Systems Neuroscience, 2010, 4, .	2.5	70
43	Lateralization is Predicted by Reduced Coupling from the Left to Right Prefrontal Cortex during Semantic Decisions on Written Words. Cerebral Cortex, 2011, 21, 1519-1531.	2.9	67
44	The impact of sample size on the reproducibility of voxel-based lesion-deficit mappings. Neuropsychologia, 2018, 115, 101-111.	1.6	67
45	Reading Aloud Boosts Connectivity through the Putamen. Cerebral Cortex, 2010, 20, 570-582.	2.9	65
46	Damage to Brocaâ€™s area does not contribute to long-term speech production outcome after stroke. Brain, 2021, 144, 817-832.	7.6	65
47	Microbleed Detection Using Automated Segmentation (MIDAS): A New Method Applicable to Standard Clinical MR Images. PLoS ONE, 2011, 6, e17547.	2.5	64
48	The fusiform face area is tuned for curvilinear patterns with more high-contrasted elements in the upper part. NeuroImage, 2006, 31, 313-319.	4.2	62
49	Predicting Language Lateralization from Gray Matter. Journal of Neuroscience, 2009, 29, 13516-13523.	3.6	61
50	Reading without the left ventral occipito-temporal cortex. Neuropsychologia, 2012, 50, 3621-3635.	1.6	60
51	The Main Sources of Intersubject Variability in Neuronal Activation for Reading Aloud. Journal of Cognitive Neuroscience, 2009, 21, 654-668.	2.3	57
52	Group analysis and the subject factor in functional magnetic resonance imaging: Analysis of fifty right-handed healthy subjects in a semantic language task. Human Brain Mapping, 2008, 29, 461-477.	3.6	54
53	How right hemisphere damage after stroke can impair speech comprehension. Brain, 2018, 141, 3389-3404.	7.6	53
54	Regional and hemispheric determinants of language laterality: Implications for preoperative fMRI. Human Brain Mapping, 2011, 32, 1602-1614.	3.6	52

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55	Functional MRI of the newborn. Seminars in Fetal and Neonatal Medicine, 2006, 11, 479-488.	2.3	51
56	Hemispheric specialization of human inferior temporal cortex during coarse-to-fine and fine-to-coarse analysis of natural visual scenes. NeuroImage, 2005, 28, 464-473.	4.2	49
57	Visual recovery after perinatal stroke evidenced by functional and diffusion MRI: case report. BMC Neurology, 2005, 5, 17.	1.8	47
58	Distinguishing the effect of lesion load from tract disconnection in the arcuate and uncinate fasciculi. NeuroImage, 2016, 125, 1169-1173.	4.2	44
59	The Fusiform Face Area responds automatically to statistical regularities optimal for face categorization. Human Brain Mapping, 2009, 30, 1615-1625.	3.6	39
60	Functionally distinct contributions of the anterior and posterior putamen during sublexical and lexical reading. Frontiers in Human Neuroscience, 2013, 7, 787.	2.0	39
61	Dissecting the functional anatomy of auditory word repetition. Frontiers in Human Neuroscience, 2014, 8, 246.	2.0	38
62	Gradual Lesion Expansion and Brain Shrinkage Years After Stroke. Stroke, 2014, 45, 877-879.	2.0	38
63	WSPM: Wavelet-based statistical parametric mapping. NeuroImage, 2007, 37, 1205-1217.	4.2	37
64	Dissociating functional brain networks by decoding the between-subject variability. NeuroImage, 2009, 45, 349-359.	4.2	36
65	Visualising inter-subject variability in fMRI using threshold-weighted overlap maps. Scientific Reports, 2016, 6, 20170.	3.3	34
66	Tactile awareness and limb position in neglect: Functional magnetic resonance imaging. Annals of Neurology, 2004, 55, 139-143.	5.3	33
67	Rhyme processing in the brain: An ERP mapping study. International Journal of Psychophysiology, 2007, 63, 240-250.	1.0	33
68	Detecting subject-specific activations using fuzzy clustering. NeuroImage, 2007, 36, 594-605.	4.2	30
69	How distributed processing produces false negatives in voxel-based lesion-deficit analyses. Neuropsychologia, 2018, 115, 124-133.	1.6	30
70	Inter- and Intrahemispheric Connectivity Differences When Reading Japanese Kanji and Hiragana. Cerebral Cortex, 2014, 24, 1601-1608.	2.9	29
71	The Role of Functional Magnetic Resonance Imaging in the Study of Brain Development, Injury, and Recovery in the Newborn. Seminars in Perinatology, 2010, 34, 79-86.	2.5	28
72	Sensory-to-motor integration during auditory repetition: a combined fMRI and lesion study. Frontiers in Human Neuroscience, 2014, 8, 24.	2.0	27

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73	Language representation in a patient with a dominant right hemisphere: fMRI evidence for an intrahemispheric reorganisation. NeuroReport, 2001, 12, 2785-2790.	1.2	26
74	Functional MRI of Auditory Cortex Activated by Multisite Electrical Stimulation of the Cochlea. NeuroImage, 2002, 17, 1010-1017.	4.2	24
75	Illusory persistence of touch after right parietal damage: neural correlates of tactile awareness. Brain, 2004, 128, 277-290.	7.6	23
76	The Importance of Premotor Cortex for Supporting Speech Production after Left Capsular-Putaminal Damage. Journal of Neuroscience, 2014, 34, 14338-14348.	3.6	23
77	The neural bases of hemispheric specialization. Neuropsychologia, 2016, 93, 319-324.	1.6	23
78	fMRI Evidence for Activation of Multiple Cortical Regions in the Primary Auditory Cortex of Deaf Subjects Users of Multichannel Cochlear Implants. Cerebral Cortex, 2004, 15, 40-48.	2.9	22
79	Auditoryâ€"Motor Interactions for the Production of Native and Non-Native Speech. Journal of Neuroscience, 2013, 33, 2376-2387.	3.6	22
80	Translational and Brownian motion in laser-Doppler flowmetry of large tissue volumes. Physics in Medicine and Biology, 2004, 49, 5445-5458.	3.0	20
81	Dissociating frontal regions that co-lateralize with different ventral occipitotemporal regions during word processing. Brain and Language, 2013, 126, 133-140.	1.6	20
82	Automated identification of brain tumors from single MR images based on segmentation with refined patient-specific priors. Frontiers in Neuroscience, 2013, 7, 241.	2.8	20
83	Dissociating the semantic function of two neighbouring subregions in the left lateral anterior temporal lobe. Neuropsychologia, 2015, 76, 153-162.	1.6	19
84	Can fully automated detection of corticospinal tract damage be used in stroke patients?. Neurology, 2013, 80, 2242-2245.	1.1	18
85	Transient crossed aphasia evidenced by functional brain imagery. NeuroReport, 2004, 15, 785-790.	1.2	16
86	Using transcranial magnetic stimulation of the undamaged brain to identify lesion sites that predict language outcome after stroke. Brain, 2017, 140, 1729-1742.	7.6	16
87	Phylogenetic analysis of complete VP1 sequences of echoviruses 11 and 6: high genetic diversity and circulation of genotypes with a wide geographical and temporal range. Journal of Medical Microbiology, 2011, 60, 1017-1025.	1.8	15
88	The influence of reading ability on subsequent changes in verbal IQ in the teenage years. Developmental Cognitive Neuroscience, 2013, 6, 30-39.	4.0	15
89	Predicting IQ change from brain structure: A cross-validation study. Developmental Cognitive Neuroscience, 2013, 5, 172-184.	4.0	13
90	Update on molecular characterization of coxsackievirus B5 strains. Journal of Medical Virology, 2011, 83, 1247-1254.	5.0	12

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91	Multiple functions of the angular gyrus at high temporal resolution. Brain Structure and Function, 2023, 228, 7-46.	2.3	12
92	Dissociating the functions of superior and inferior parts of the left ventral occipito-temporal cortex during visual word and object processing. NeuroImage, 2019, 199, 325-335.	4.2	10
93	Ten simple rules for reporting machine learning methods implementation and evaluation on biomedical data. International Journal of Imaging Systems and Technology, 2022, 32, 5-11.	4.1	10
94	Functional MRI of auditory cortex activated by multisite electrical stimulation of the cochlea. NeuroImage, 2002, 17, 1010-7.	4.2	9
95	A Trade-Off between Somatosensory and Auditory Related Brain Activity during Object Naming But Not Reading. Journal of Neuroscience, 2015, 35, 4751-4759.	3.6	8
96	Molecular epidemiology of coxsackievirus type B1. Archives of Virology, 2015, 160, 2815-2821.	2.1	8
97	Lesions that do or do not impair digit span: a study of 816 stroke survivors. Brain Communications, 2021, 3, fcab031.	3.3	8
98	Clustering of fMRI data: the elusive optimal number of clusters. PeerJ, 2018, 6, e5416.	2.0	7
99	Brain activation using triggered event-related fMRI. NeuroImage, 2003, 18, 410-415.	4.2	5
100	Categorical laterality indices in fMRI: a parallel with classic similarity indices. Brain Structure and Function, 2019, 224, 1377-1383.	2.3	5
101	Educational fMRI: From the Lab to the Classroom. Frontiers in Psychology, 2019, 10, 2769.	2.1	5
102	A Data-Based Approach for Selecting Pre- and Intra-Operative Language Mapping Tasks. Frontiers in Neuroscience, 2021, 15, 743402.	2.8	5
103	Multinomial inference on distributed responses in SPM. NeuroImage, 2010, 53, 161-170.	4.2	4
104	Age Affects How Task Difficulty and Complexity Modulate Perceptual Decision-Making. Frontiers in Aging Neuroscience, 2019, 11, 28.	3.4	4
105	The COVIDâ€19 pandemic: What can bioengineers, computer scientists and big data specialists bring to the table. International Journal of Imaging Systems and Technology, 2020, 30, 511-512.	4.1	4
106	What makes written words so special to the brain?. Frontiers in Human Neuroscience, 2014, 8, 634.	2.0	3
107	Repetition enhancement and perceptual processing of visual word form. Frontiers in Human Neuroscience, 2012, 6, 206.	2.0	2
108	fMRI on patients with lesions involving language areas: implications for neurosurgery. NeuroImage, 2001, 13, 836.	4.2	1

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109	Medical imaging: A new era of precision and holistic imaging. International Journal of Imaging Systems and Technology, 2019, 29, 3-3.	4.1	1
110	Demystifying desk rejection: A call to action for our authors. International Journal of Imaging Systems and Technology, 2022, 32, 701-703.	4.1	1
111	An active human role is essential in big data-led decisions and data-intensive science. F1000Research, 0, 10, 1127.	1.6	0