

Mohamed L Seghier

List of Publications by Year in descending order

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Version: 2024-02-01

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	Multiple functions of the angular gyrus at high temporal resolution. <i>Brain Structure and Function</i> , 2023, 228, 7-46.	2.3	12
2	Ten simple rules for reporting machine learning methods implementation and evaluation on biomedical data. <i>International Journal of Imaging Systems and Technology</i> , 2022, 32, 5-11.	4.1	10
3	Demystifying desk rejection: A call to action for our authors. <i>International Journal of Imaging Systems and Technology</i> , 2022, 32, 701-703.	4.1	1
4	Lesions that do or do not impair digit span: a study of 816 stroke survivors. <i>Brain Communications</i> , 2021, 3, fcab031.	3.3	8
5	Damage to Broca's area does not contribute to long-term speech production outcome after stroke. <i>Brain</i> , 2021, 144, 817-832.	7.6	65
6	A Data-Based Approach for Selecting Pre- and Intra-Operative Language Mapping Tasks. <i>Frontiers in Neuroscience</i> , 2021, 15, 743402.	2.8	5
7	The COVID-19 pandemic: What can bioengineers, computer scientists and big data specialists bring to the table. <i>International Journal of Imaging Systems and Technology</i> , 2020, 30, 511-512.	4.1	4
8	Categorical laterality indices in fMRI: a parallel with classic similarity indices. <i>Brain Structure and Function</i> , 2019, 224, 1377-1383.	2.3	5
9	Medical imaging: A new era of precision and holistic imaging. <i>International Journal of Imaging Systems and Technology</i> , 2019, 29, 3-3.	4.1	1
10	A guide to group effective connectivity analysis, part 1: First level analysis with DCM for fMRI. <i>NeuroImage</i> , 2019, 200, 174-190.	4.2	242
11	A guide to group effective connectivity analysis, part 2: Second level analysis with PEB. <i>NeuroImage</i> , 2019, 200, 12-25.	4.2	267
12	Dissociating the functions of superior and inferior parts of the left ventral occipito-temporal cortex during visual word and object processing. <i>NeuroImage</i> , 2019, 199, 325-335.	4.2	10
13	Age Affects How Task Difficulty and Complexity Modulate Perceptual Decision-Making. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 28.	3.4	4
14	Educational fMRI: From the Lab to the Classroom. <i>Frontiers in Psychology</i> , 2019, 10, 2769.	2.1	5
15	How distributed processing produces false negatives in voxel-based lesion-deficit analyses. <i>Neuropsychologia</i> , 2018, 115, 124-133.	1.6	30
16	Interpreting and Utilising Intersubject Variability in Brain Function. <i>Trends in Cognitive Sciences</i> , 2018, 22, 517-530.	7.8	216
17	The impact of sample size on the reproducibility of voxel-based lesion-deficit mappings. <i>Neuropsychologia</i> , 2018, 115, 101-111.	1.6	67
18	Clustering of fMRI data: the elusive optimal number of clusters. <i>PeerJ</i> , 2018, 6, e5416.	2.0	7

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19	How right hemisphere damage after stroke can impair speech comprehension. <i>Brain</i> , 2018, 141, 3389-3404.	7.6	53
20	Using transcranial magnetic stimulation of the undamaged brain to identify lesion sites that predict language outcome after stroke. <i>Brain</i> , 2017, 140, 1729-1742.	7.6	16
21	Right hemisphere structural adaptation and changing language skills years after left hemisphere stroke. <i>Brain</i> , 2017, 140, 1718-1728.	7.6	79
22	Large-scale DCMs for resting-state fMRI. <i>Network Neuroscience</i> , 2017, 1, 222-241.	2.6	146
23	Ten problems and solutions when predicting individual outcome from lesion site after stroke. <i>NeuroImage</i> , 2017, 145, 200-208.	4.2	75
24	Four Functionally Distinct Regions in the Left Supramarginal Gyrus Support Word Processing. <i>Cerebral Cortex</i> , 2016, 26, 4212-4226.	2.9	119
25	Visualising inter-subject variability in fMRI using threshold-weighted overlap maps. <i>Scientific Reports</i> , 2016, 6, 20170.	3.3	34
26	The neural bases of hemispheric specialization. <i>Neuropsychologia</i> , 2016, 93, 319-324.	1.6	23
27	Distinguishing the effect of lesion load from tract disconnection in the arcuate and uncinate fasciculi. <i>NeuroImage</i> , 2016, 125, 1169-1173.	4.2	44
28	The PLORAS Database: A data repository for Predicting Language Outcome and Recovery After Stroke. <i>NeuroImage</i> , 2016, 124, 1208-1212.	4.2	98
29	A Trade-Off between Somatosensory and Auditory Related Brain Activity during Object Naming But Not Reading. <i>Journal of Neuroscience</i> , 2015, 35, 4751-4759.	3.6	8
30	Comparing language outcomes in monolingual and bilingual stroke patients. <i>Brain</i> , 2015, 138, 1070-1083.	7.6	77
31	Molecular epidemiology of coxsackievirus type B1. <i>Archives of Virology</i> , 2015, 160, 2815-2821.	2.1	8
32	Dissociating the semantic function of two neighbouring subregions in the left lateral anterior temporal lobe. <i>Neuropsychologia</i> , 2015, 76, 153-162.	1.6	19
33	Sensory-to-motor integration during auditory repetition: a combined fMRI and lesion study. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 24.	2.0	27
34	Dissecting the functional anatomy of auditory word repetition. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 246.	2.0	38
35	What makes written words so special to the brain?. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 634.	2.0	3
36	Gradual Lesion Expansion and Brain Shrinkage Years After Stroke. <i>Stroke</i> , 2014, 45, 877-879.	2.0	38

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37	Inter- and Intra-hemispheric Connectivity Differences When Reading Japanese Kanji and Hiragana. <i>Cerebral Cortex</i> , 2014, 24, 1601-1608.	2.9	29
38	The Importance of Premotor Cortex for Supporting Speech Production after Left Capsular-Putaminal Damage. <i>Journal of Neuroscience</i> , 2014, 34, 14338-14348.	3.6	23
39	The influence of reading ability on subsequent changes in verbal IQ in the teenage years. <i>Developmental Cognitive Neuroscience</i> , 2013, 6, 30-39.	4.0	15
40	Network discovery with large DCMs. <i>NeuroImage</i> , 2013, 68, 181-191.	4.2	89
41	The Angular Gyrus. <i>Neuroscientist</i> , 2013, 19, 43-61.	3.5	1,226
42	Predicting IQ change from brain structure: A cross-validation study. <i>Developmental Cognitive Neuroscience</i> , 2013, 5, 172-184.	4.0	13
43	Predicting outcome and recovery after stroke with lesions extracted from MRI images. <i>NeuroImage: Clinical</i> , 2013, 2, 424-433.	2.7	207
44	Dissociating frontal regions that co-lateralize with different ventral occipitotemporal regions during word processing. <i>Brain and Language</i> , 2013, 126, 133-140.	1.6	20
45	Auditory-Motor Interactions for the Production of Native and Non-Native Speech. <i>Journal of Neuroscience</i> , 2013, 33, 2376-2387.	3.6	22
46	Can fully automated detection of corticospinal tract damage be used in stroke patients?. <i>Neurology</i> , 2013, 80, 2242-2245.	1.1	18
47	Functionally distinct contributions of the anterior and posterior putamen during sublexical and lexical reading. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 787.	2.0	39
48	Automated identification of brain tumors from single MR images based on segmentation with refined patient-specific priors. <i>Frontiers in Neuroscience</i> , 2013, 7, 241.	2.8	20
49	Where, When and Why Brain Activation Differs for Bilinguals and Monolinguals during Picture Naming and Reading Aloud. <i>Cerebral Cortex</i> , 2012, 22, 892-902.	2.9	221
50	Reading without the left ventral occipito-temporal cortex. <i>Neuropsychologia</i> , 2012, 50, 3621-3635.	1.6	60
51	Functional Heterogeneity within the Default Network during Semantic Processing and Speech Production. <i>Frontiers in Psychology</i> , 2012, 3, 281.	2.1	81
52	Repetition enhancement and perceptual processing of visual word form. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 206.	2.0	2
53	Multiple Routes from Occipital to Temporal Cortices during Reading. <i>Journal of Neuroscience</i> , 2011, 31, 8239-8247.	3.6	100
54	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. <i>Journal of Medical Microbiology</i> , 2011, 60, 1017-1025.	1.8	15

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55	Verbal and non-verbal intelligence changes in the teenage brain. <i>Nature</i> , 2011, 479, 113-116.	27.8	195
56	Update on molecular characterization of coxsackievirus B5 strains. <i>Journal of Medical Virology</i> , 2011, 83, 1247-1254.	5.0	12
57	Regional and hemispheric determinants of language laterality: Implications for preoperative fMRI. <i>Human Brain Mapping</i> , 2011, 32, 1602-1614.	3.6	52
58	Explaining Left Lateralization for Words in the Ventral Occipitotemporal Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 14745-14753.	3.6	72
59	Lateralization is Predicted by Reduced Coupling from the Left to Right Prefrontal Cortex during Semantic Decisions on Written Words. <i>Cerebral Cortex</i> , 2011, 21, 1519-1531.	2.9	67
60	Microbleed Detection Using Automated Segmentation (MIDAS): A New Method Applicable to Standard Clinical MR Images. <i>PLoS ONE</i> , 2011, 6, e17547.	2.5	64
61	The Role of Functional Magnetic Resonance Imaging in the Study of Brain Development, Injury, and Recovery in the Newborn. <i>Seminars in Perinatology</i> , 2010, 34, 79-86.	2.5	28
62	Identifying abnormal connectivity in patients using Dynamic Causal Modelling of fMRI responses. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, .	2.5	70
63	Reading Aloud Boosts Connectivity through the Putamen. <i>Cerebral Cortex</i> , 2010, 20, 570-582.	2.9	65
64	Functional Subdivisions in the Left Angular Gyrus Where the Semantic System Meets and Diverges from the Default Network. <i>Journal of Neuroscience</i> , 2010, 30, 16809-16817.	3.6	231
65	Developmental dyslexia in Chinese and English populations: dissociating the effect of dyslexia from language differences. <i>Brain</i> , 2010, 133, 1694-1706.	7.6	142
66	Predicting language outcome and recovery after stroke: the PLORAS system. <i>Nature Reviews Neurology</i> , 2010, 6, 202-210.	10.1	133
67	Multinomial inference on distributed responses in SPM. <i>NeuroImage</i> , 2010, 53, 161-170.	4.2	4
68	The Neural Substrates and Timing of Top-Down Processes during Coarse-to-Fine Categorization of Visual Scenes: A Combined fMRI and ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2768-2780.	2.3	123
69	Predicting Language Lateralization from Gray Matter. <i>Journal of Neuroscience</i> , 2009, 29, 13516-13523.	3.6	61
70	The Main Sources of Intersubject Variability in Neuronal Activation for Reading Aloud. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 654-668.	2.3	57
71	The left superior temporal gyrus is a shared substrate for auditory short-term memory and speech comprehension: evidence from 210 patients with stroke. <i>Brain</i> , 2009, 132, 3401-3410.	7.6	230
72	The Fusiform Face Area responds automatically to statistical regularities optimal for face categorization. <i>Human Brain Mapping</i> , 2009, 30, 1615-1625.	3.6	39

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73	An anatomical signature for literacy. <i>Nature</i> , 2009, 461, 983-986.	27.8	362
74	Dissociating functional brain networks by decoding the between-subject variability. <i>NeuroImage</i> , 2009, 45, 349-359.	4.2	36
75	Group analysis and the subject factor in functional magnetic resonance imaging: Analysis of fifty right-handed healthy subjects in a semantic language task. <i>Human Brain Mapping</i> , 2008, 29, 461-477.	3.6	54
76	Laterality index in functional MRI: methodological issues. <i>Magnetic Resonance Imaging</i> , 2008, 26, 594-601.	1.8	399
77	Lesion identification using unified segmentation-normalisation models and fuzzy clustering. <i>NeuroImage</i> , 2008, 41, 1253-1266.	4.2	335
78	Inter-subject variability in the use of two different neuronal networks for reading aloud familiar words. <i>NeuroImage</i> , 2008, 42, 1226-1236.	4.2	79
79	Explaining Function with Anatomy: Language Lateralization and Corpus Callosum Size. <i>Journal of Neuroscience</i> , 2008, 28, 14132-14139.	3.6	102
80	Language Control and Lexical Competition in Bilinguals: An Event-Related fMRI Study. <i>Cerebral Cortex</i> , 2008, 18, 1496-1505.	2.9	327
81	Intrauterine Growth Restriction Affects the Preterm Infant's Hippocampus. <i>Pediatric Research</i> , 2008, 63, 438-443.	2.3	187
82	Rhyme processing in the brain: An ERP mapping study. <i>International Journal of Psychophysiology</i> , 2007, 63, 240-250.	1.0	33
83	Detecting subject-specific activations using fuzzy clustering. <i>NeuroImage</i> , 2007, 36, 594-605.	4.2	30
84	WSPM: Wavelet-based statistical parametric mapping. <i>NeuroImage</i> , 2007, 37, 1205-1217.	4.2	37
85	The fusiform face area is tuned for curvilinear patterns with more high-contrasted elements in the upper part. <i>NeuroImage</i> , 2006, 31, 313-319.	4.2	62
86	Neural systems for orienting attention to the location of threat signals: An event-related fMRI study. <i>NeuroImage</i> , 2006, 31, 920-933.	4.2	141
87	Functional MRI of the newborn. <i>Seminars in Fetal and Neonatal Medicine</i> , 2006, 11, 479-488.	2.3	51
88	Functional neuroimaging findings on the human perception of illusory contours. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 595-612.	6.1	115
89	Discriminating emotional faces without primary visual cortices involves the right amygdala. <i>Nature Neuroscience</i> , 2005, 8, 24-25.	14.8	284
90	The voices of wrath: brain responses to angry prosody in meaningless speech. <i>Nature Neuroscience</i> , 2005, 8, 145-146.	14.8	384

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91	Visual recovery after perinatal stroke evidenced by functional and diffusion MRI: case report. BMC Neurology, 2005, 5, 17.	1.8	47
92	Portraits or People? Distinct Representations of Face Identity in the Human Visual Cortex. Journal of Cognitive Neuroscience, 2005, 17, 1043-1057.	2.3	114
93	Anatomical variability of the lateral frontal lobe surface: implication for intersubject variability in language neuroimaging. NeuroImage, 2005, 24, 504-514.	4.2	74
94	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
95	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
96	Emotion and attention interactions in social cognition: Brain regions involved in processing anger prosody. NeuroImage, 2005, 28, 848-858.	4.2	350
97	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
98	Translational and Brownian motion in laser-Doppler flowmetry of large tissue volumes. Physics in Medicine and Biology, 2004, 49, 5445-5458.	3.0	20
99	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
100	Illusory persistence of touch after right parietal damage: neural correlates of tactile awareness. Brain, 2004, 128, 277-290.	7.6	23
101	Tactile awareness and limb position in neglect: Functional magnetic resonance imaging. Annals of Neurology, 2004, 55, 139-143.	5.3	33
102	Variability of fMRI activation during a phonological and semantic language task in healthy subjects. Human Brain Mapping, 2004, 23, 140-155.	3.6	181
103	Combination of event-related fMRI and diffusion tensor imaging in an infant with perinatal stroke. NeuroImage, 2004, 21, 463-472.	4.2	93
104	Transient crossed aphasia evidenced by functional brain imagery. NeuroReport, 2004, 15, 785-790.	1.2	16
105	Brain activation using triggered event-related fMRI. NeuroImage, 2003, 18, 410-415.	4.2	5
106	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
107	Functional MRI of Auditory Cortex Activated by Multisite Electrical Stimulation of the Cochlea. NeuroImage, 2002, 17, 1010-1017.	4.2	24
108	Functional MRI of auditory cortex activated by multisite electrical stimulation of the cochlea. NeuroImage, 2002, 17, 1010-7.	4.2	9

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109	fMRI on patients with lesions involving language areas: implications for neurosurgery. NeuroImage, 2001, 13, 836.	4.2	1
110	Language representation in a patient with a dominant right hemisphere: fMRI evidence for an intrahemispheric reorganisation. NeuroReport, 2001, 12, 2785-2790.	1.2	26
111	An active human role is essential in big data-led decisions and data-intensive science. F1000Research, 0, 10, 1127.	1.6	0