

# Ferath Kherif

## List of Publications by Year in descending order

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85  
papers

5,421  
citations

101543

36  
h-index

91884

69  
g-index

98  
all docs

98  
docs citations

98  
times ranked

8039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for Segregated and Integrative Connectivity Patterns in the Human Basal Ganglia. <i>Journal of Neuroscience</i> , 2008, 28, 7143-7152.	3.6	695
2	Motor cortex maps articulatory features of speech sounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7865-7870.	7.1	555
3	Regional specificity of MRI contrast parameter changes in normal ageing revealed by voxel-based quantification (VBQ). <i>NeuroImage</i> , 2011, 55, 1423-1434.	4.2	259
4	Multivariate voxel-based morphometry successfully differentiates schizophrenia patients from healthy controls. <i>NeuroImage</i> , 2007, 34, 235-242.	4.2	168
5	hMRI – A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019, 194, 191-210.	4.2	161
6	The 16p11.2 locus modulates brain structures common to autism, schizophrenia and obesity. <i>Molecular Psychiatry</i> , 2015, 20, 140-147.	7.9	160
7	Retinotopic organization of visual mental images as revealed by functional magnetic resonance imaging. <i>Cognitive Brain Research</i> , 2004, 22, 26-31.	3.0	158
8	Does Semantic Context Benefit Speech Understanding through “Top-Down” Processes? Evidence from Time-resolved Sparse fMRI. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3914-3932.	2.3	143
9	Electroconvulsive therapy-induced brain plasticity determines therapeutic outcome in mood disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1156-1161.	7.1	141
10	Automatized clustering and functional geometry of human parietofrontal networks for language, space, and number. <i>NeuroImage</i> , 2004, 23, 1192-1202.	4.2	136
11	A primal sketch of the cortex mean curvature: A morphogenesis based approach to study the variability of the folding patterns. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 754-765.	8.9	135
12	Detection of fMRI activation using Cortical Surface Mapping. <i>Human Brain Mapping</i> , 2001, 12, 79-93.	3.6	129
13	A generic framework for the parcellation of the cortical surface into gyri using geodesic Voronoi diagrams. <i>Medical Image Analysis</i> , 2003, 7, 403-416.	11.6	105
14	New tissue priors for improved automated classification of subcortical brain structures on MRI. <i>NeuroImage</i> , 2016, 130, 157-166.	4.2	104
15	Automatic Top-Down Processing Explains Common Left Occipito-Temporal Responses to Visual Words and Objects. <i>Cerebral Cortex</i> , 2011, 21, 103-114.	2.9	103
16	Explaining Function with Anatomy: Language Lateralization and Corpus Callosum Size. <i>Journal of Neuroscience</i> , 2008, 28, 14132-14139.	3.6	102
17	The Role of the Left Head of Caudate in Suppressing Irrelevant Words. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2369-2386.	2.3	99
18	Stroking Characteristics in Freestyle Swimming and Relationships with Anthropometric Characteristics. <i>Journal of Applied Biomechanics</i> , 1996, 12, 197-206.	0.8	91

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19	How early can we predict Alzheimer's disease using computational anatomy?. <i>Neurobiology of Aging</i> , 2013, 34, 2815-2826.	3.1	90
20	Evolution of white matter tract microstructure across the life span. <i>Human Brain Mapping</i> , 2019, 40, 2252-2268.	3.6	88
21	Neurobiological origin of spurious brain morphological changes: A quantitative MRI study. <i>Human Brain Mapping</i> , 2016, 37, 1801-1815.	3.6	87
22	Group analysis in functional neuroimaging: selecting subjects using similarity measures. <i>NeuroImage</i> , 2003, 20, 2197-2208.	4.2	85
23	Imagery or meaning? Evidence for a semantic origin of category-specific brain activity in metabolic imaging. <i>European Journal of Neuroscience</i> , 2008, 27, 1856-1866.	2.6	82
24	Brain tissue properties differentiate between motor and limbic basal ganglia circuits. <i>Human Brain Mapping</i> , 2014, 35, 5083-5092.	3.6	82
25	Matrix metalloproteinases MMP2 and MMP9 in denervated muscle and injured nerve. <i>Neuropathology and Applied Neurobiology</i> , 1998, 24, 309-319.	3.2	79
26	Distributed cell assemblies for general lexical and category-specific semantic processing as revealed by fMRI cluster analysis. <i>Human Brain Mapping</i> , 2009, 30, 3837-3850.	3.6	74
27	Multivariate Model Specification for fMRI Data. <i>NeuroImage</i> , 2002, 16, 1068-1083.	4.2	70
28	Disentangling in vivo the effects of iron content and atrophy on the ageing human brain. <i>NeuroImage</i> , 2014, 103, 280-289.	4.2	68
29	Generative FDG-PET and MRI Model of Aging and Disease Progression in Alzheimer's Disease. <i>PLoS Computational Biology</i> , 2013, 9, e1002987.	3.2	67
30	Relationship between imaging biomarkers, age, progression and symptom severity in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2013, 3, 84-94.	2.7	63
31	Predicting Language Lateralization from Gray Matter. <i>Journal of Neuroscience</i> , 2009, 29, 13516-13523.	3.6	61
32	Temporal sorting of neural components underlying phonological processing. <i>NeuroReport</i> , 1999, 10, 2599-2603.	1.2	57
33	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
34	Quantifying the Effects of 16p11.2 Copy Number Variants on Brain Structure: A Multisite Genetic-First Study. <i>Biological Psychiatry</i> , 2018, 84, 253-264.	1.3	56
35	Regional and hemispheric determinants of language laterality: Implications for preoperative fMRI. <i>Human Brain Mapping</i> , 2011, 32, 1602-1614.	3.6	52
36	Association of a Schizophrenia-Risk Nonsynonymous Variant With Putamen Volume in Adolescents. <i>JAMA Psychiatry</i> , 2019, 76, 435.	11.0	51

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37	Towards a European health research and innovation cloud (HRIC). <i>Genome Medicine</i> , 2020, 12, 18.	8.2	46
38	Converging patterns of aging-associated brain volume loss and tissue microstructure differences. <i>Neurobiology of Aging</i> , 2020, 88, 108-118.	3.1	43
39	Networks of myelin covariance. <i>Human Brain Mapping</i> , 2018, 39, 1532-1554.	3.6	36
40	Computational anatomy for studying use-dependant brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 380.	2.0	31
41	Influence of magnetic field strength and image registration strategy on voxel-based morphometry in a study of Alzheimer's disease. <i>Human Brain Mapping</i> , 2014, 35, 1865-1874.	3.6	29
42	Neuroticism, depression, and anxiety traits exacerbate the state of cognitive impairment and hippocampal vulnerability to Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2017, 7, 107-114.	2.4	29
43	Mean Oxygen Saturation during Sleep Is Related to Specific Brain Atrophy Pattern. <i>Annals of Neurology</i> , 2020, 87, 921-930.	5.3	28
44	Impact of brain aging and neurodegeneration on cognition. <i>Current Opinion in Neurology</i> , 2013, 26, 640-645.	3.6	27
45	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019, 25, 104132.	1.0	24
46	Machine Learning for Health: Algorithm Auditing & Quality Control. <i>Journal of Medical Systems</i> , 2021, 45, 105.	3.6	23
47	Temporal trajectory of brain tissue property changes induced by electroconvulsive therapy. <i>NeuroImage</i> , 2021, 232, 117895.	4.2	20
48	Restoring statistical validity in group analyses of motion-corrupted MRI data. <i>Human Brain Mapping</i> , 2022, 43, 1973-1983.	3.6	20
49	Parcellation of brain images with anatomical and functional constraints for fMRI data analysis. , 0, , .		18
50	Cross-Validation of Functional MRI and Paranoid-Depressive Scale: Results From Multivariate Analysis. <i>Frontiers in Psychiatry</i> , 2019, 10, 869.	2.6	18
51	In vivo assessment of use-dependent brain plasticity—Beyond the “one trick pony” imaging strategy. <i>NeuroImage</i> , 2013, 73, 255-259.	4.2	16
52	Identification of the regions involved in phonological assembly using a novel paradigm. <i>Brain and Language</i> , 2015, 150, 45-53.	1.6	16
53	Brain plasticity dynamics during tactile Braille learning in sighted subjects: Multi-contrast MRI approach. <i>NeuroImage</i> , 2021, 227, 117613.	4.2	16
54	Improved Detection Sensitivity in Functional MRI Data Using a Brain Parcelling Technique. <i>Lecture Notes in Computer Science</i> , 2002, , 467-474.	1.3	16

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55	Contrasts and Classical Inference. , 2007, , 126-139.		14
56	In-vivo brain neuroimaging provides a gateway for integrating biological and clinical biomarkers of Alzheimer's disease. Current Opinion in Neurology, 2015, 28, 351-357.	3.6	14
57	Spatial Resolution and Imaging Encoding fMRI Settings for Optimal Cortical and Subcortical Motor Somatotopy in the Human Brain. Frontiers in Neuroscience, 2019, 13, 571.	2.8	14
58	Brain tissue properties link cardio-vascular risk factors, mood and cognitive performance in the CoLaus PsyCoLaus epidemiological cohort. Neurobiology of Aging, 2021, 102, 50-63.	3.1	14
59	Voluntary Explicit versus Involuntary Conceptual Memory Are Associated with Dissociable fMRI Responses in Hippocampus, Amygdala, and Parietal Cortex for Emotional and Neutral Word Pairs. Journal of Cognitive Neuroscience, 2011, 23, 1935-1951.	2.3	13
60	Multivariate Analysis of Structural and Functional Neuroimaging Can Inform Psychiatric Differential Diagnosis. Diagnostics, 2021, 11, 19.	2.6	13
61	A nation-wide initiative for brain imaging and clinical phenotype data federation in Swiss university memory centres. Current Opinion in Neurology, 2019, 32, 557-563.	3.6	12
62	Medical Informatics Platform (MIP): A Pilot Study Across Clinical Italian Cohorts. Frontiers in Neurology, 2020, 11, 1021.	2.4	10
63	Interactions between Personality, Depression, Anxiety and Cognition to Understand Early Stage of Alzheimer's Disease. Current Topics in Medicinal Chemistry, 2020, 20, 782-791.	2.1	9
64	Apolipoprotein E4 effects on topological brain network organization in mild cognitive impairment. Scientific Reports, 2021, 11, 845.	3.3	6
65	Mapping grip force to motor networks. NeuroImage, 2021, 229, 117735.	4.2	6
66	Neuro-Clinical Signatures of Language Impairments: A Theoretical Framework for Function-to-structure Mapping in Clinics. Current Topics in Medicinal Chemistry, 2020, 20, 800-811.	2.1	6
67	Functional MRI in Depression's Multivariate Analysis of Emotional Task. Journal of Medical and Biological Engineering, 2020, 40, 535-544.	1.8	5
68	Application of Mass Multivariate Analysis on Neuroimaging Data Sets for Precision Diagnostics of Depression. Diagnostics, 2022, 12, 469.	2.6	5
69	Dopaminergic modulation of motor network compensatory mechanisms in Parkinson's disease. Human Brain Mapping, 2019, 40, 4397-4416.	3.6	4
70	Trajectories of brain remodeling in temporal lobe epilepsy. Journal of Neurology, 2019, 266, 3150-3159.	3.6	3
71	Remodeling of brain morphology in temporal lobe epilepsy. Brain and Behavior, 2020, 10, e01825.	2.2	3
72	Clinical phenotype modulates brain's myelin and iron content in temporal lobe epilepsy. Brain Structure and Function, 2022, 227, 901-911.	2.3	3

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73	Abnormal brain iron accumulation in obstructive sleep apnea: A quantitative <scp>MRI</scp> study in the <scp>HypnoLaus</scp> cohort. Journal of Sleep Research, 0, , .	3.2	3
74	Early Prognosis Models in Aphasia. , 2015, , 807-811.		2
75	Apolipoprotein E allele 4 effects on Single-Subject Gray Matter Networks in Mild Cognitive Impairment. NeuroImage: Clinical, 2021, 32, 102799.	2.7	2
76	Gradient of electro-convulsive therapyâ€™s antidepressant effects along the longitudinal hippocampal axis. Translational Psychiatry, 2021, 11, 191.	4.8	2
77	Towards the Identification of Disease Signatures. Lecture Notes in Computer Science, 2015, , 145-155.	1.3	2
78	Federating and Integrating What We Know About the Brain at All Scales: Computer Science Meets the Clinical Neurosciences. Research and Perspectives in Neurosciences, 2016, , 157-170.	0.4	2
79	Scale space searches in cortical surface analysis of fMRI data. NeuroImage, 2001, 13, 1290.	4.2	1
80	Hierarchical multivariate group analysis of functional MRI data. , 0, , .		1
81	Explainable deep learning models for dementia identification via magnetic resonance imaging. Alzheimer's and Dementia, 2020, 16, e047636.	0.8	1
82	Model Based Spatial and Temporal Similarity Measures between Series of Functional Magnetic Resonance Images. Lecture Notes in Computer Science, 2002, , 509-516.	1.3	1
83	Neuro-Clinical Signatures of Language Impairments after Acute Stroke: A VBQ Analysis of Quantitative Native CT Scans. Current Topics in Medicinal Chemistry, 2020, 20, 792-799.	2.1	1
84	ICâ€™Paâ€™045: MEDICAL INFORMATICS PLATFORM (MIP): A VALIDATION STUDY ACROSS CLINICAL ITALIAN COHORTS. Alzheimer's and Dementia, 2019, 15, P48.	0.8	0
85	Greater than the sum: Federated analyses in Alzheimerâ€™s disease using the Human Brain Project Medical Informatics Platform (MIP). Alzheimer's and Dementia, 2020, 16, e045717.	0.8	0