

# Alberto Fernandez

## List of Publications by Year in descending order

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123  
papers

4,381  
citations

76196

40  
h-index

133063

59  
g-index

127  
all docs

127  
docs citations

127  
times ranked

4091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apolipoprotein E ε4-related effects on cognition are limited to the Alzheimer's disease spectrum. <i>GeroScience</i> , 2022, 44, 195-209.	2.1	1
2	Current state of knowledge on the prevalence of neurodevelopmental disorders in childhood according to the DSM-5: a systematic review in accordance with the PRISMA criteria. <i>Child and Adolescent Psychiatry and Mental Health</i> , 2022, 16, 27.	1.2	78
3	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. <i>Alzheimer's and Dementia</i> , 2021, 17, 1528-1553.	0.4	64
4	Hypersynchronized Magnetoencephalography Brain Networks in Patients with Mild Cognitive Impairment and Alzheimer's Disease in Down Syndrome. <i>Brain Connectivity</i> , 2021, 11, 725-733.	0.8	9
5	Electrophysiological brain functional network alterations associated with hippocampal volume in healthy and pathological aging. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0
6	Emotional Intelligence as an Evolutive Factor on Adult With ADHD. <i>Journal of Attention Disorders</i> , 2020, 24, 1462-1470.	1.5	4
7	What electrophysiology tells us about Alzheimer's disease: a window into the synchronization and connectivity of brain neurons. <i>Neurobiology of Aging</i> , 2020, 85, 58-73.	1.5	150
8	Complexity changes in preclinical Alzheimer's disease: An MEG study of subjective cognitive decline and mild cognitive impairment. <i>Clinical Neurophysiology</i> , 2020, 131, 437-445.	0.7	21
9	Role of Magnetoencephalography in the Early Stages of Alzheimer Disease. <i>Neuroimaging Clinics of North America</i> , 2020, 30, 217-227.	0.5	9
10	A multivariate model of time to conversion from mild cognitive impairment to Alzheimer's disease. <i>GeroScience</i> , 2020, 42, 1715-1732.	2.1	9
11	MEG spectral patterns in the progression from MCI to AD. <i>Alzheimer's and Dementia</i> , 2020, 16, e047535.	0.4	0
12	A multivariate model of time to conversion from mild cognitive impairment to Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e047537.	0.4	0
13	Neuropsychological and neurophysiological characterization of mild cognitive impairment and Alzheimer's disease in Down syndrome. <i>Neurobiology of Aging</i> , 2019, 84, 70-79.	1.5	19
14	Sex Differences in the Complexity of Healthy Older Adults' Magnetoencephalograms. <i>Entropy</i> , 2019, 21, 798.	1.1	5
15	The Importance of the Validation of M/EEG With Current Biomarkers in Alzheimer's Disease. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 17.	1.0	48
16	Electromagnetic signatures of the preclinical and prodromal stages of Alzheimer's disease. <i>Brain</i> , 2018, 141, 1470-1485.	3.7	109
17	Alterations of Effective Connectivity Patterns in Mild Cognitive Impairment: An MEG Study. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 843-854.	1.2	12
18	BDNF Val66Met Polymorphism and Gamma Band Disruption in Resting State Brain Functional Connectivity: A Magnetoencephalography Study in Cognitively Intact Older Females. <i>Frontiers in Neuroscience</i> , 2018, 12, 684.	1.4	3

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19	Physical activity effects on the individual alpha peak frequency of older adults with and without genetic risk factors for Alzheimer's Disease: A MEG study. <i>Clinical Neurophysiology</i> , 2018, 129, 1981-1989.	0.7	17
20	Complexity analysis of spontaneous brain activity in mood disorders: A magnetoencephalography study of bipolar disorder and major depression. <i>Comprehensive Psychiatry</i> , 2018, 84, 112-117.	1.5	32
21	Complexity Changes in Brain Activity in Healthy Ageing: A Permutation Lempel-Ziv Complexity Study of Magnetoencephalograms. <i>Entropy</i> , 2018, 20, 506.	1.1	12
22	Early functional network alterations in asymptomatic elders at risk for Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 6517.	1.6	64
23	Refined multiscale fuzzy entropy based on standard deviation for biomedical signal analysis. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 2037-2052.	1.6	120
24	Absolute Power Spectral Density Changes in the Magnetoencephalographic Activity During the Transition from Childhood to Adulthood. <i>Brain Topography</i> , 2017, 30, 87-97.	0.8	26
25	Synchronisation likelihood analysis of the effects of age on the brain. , 2017, , .		0
26	Permutation Entropy for the Characterisation of Brain Activity Recorded with Magnetoencephalograms in Healthy Ageing. <i>Entropy</i> , 2017, 19, 141.	1.1	16
27	MEG Analysis of Neural Interactions in Attention-Deficit/Hyperactivity Disorder. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-10.	1.1	10
28	Searching for Primary Predictors of Conversion from Mild Cognitive Impairment to Alzheimer's Disease: A Multivariate Follow-Up Study. <i>Journal of Alzheimer's Disease</i> , 2016, 52, 133-143.	1.2	46
29	Analysis of magnetoencephalography signals from Alzheimer's disease patients using granger causality. , 2016, 2016, 724-727.		0
30	Neuropsychological Models of Depression. , 2016, , 249-271.		0
31	Dispersion entropy for the analysis of resting-state MEG regularity in Alzheimer's disease. , 2016, 2016, 6417-6420.		16
32	Multiscale entropy analysis of resting-state magnetoencephalogram with tensor factorisations in Alzheimer's disease. <i>Brain Research Bulletin</i> , 2015, 119, 136-144.	1.4	34
33	Evaluation of resting-state magnetoencephalogram complexity in Alzheimer's disease with multivariate multiscale permutation and sample entropies. , 2015, 2015, 7422-5.		9
34	Changes on the Modulation of the Startle Reflex in Alcohol-Dependent Patients after 12 Weeks of a Cognitive-Behavioral Intervention. <i>European Addiction Research</i> , 2015, 21, 195-203.	1.3	4
35	MEG analysis of neural dynamics in attention-deficit/hyperactivity disorder with fuzzy entropy. <i>Medical Engineering and Physics</i> , 2015, 37, 416-423.	0.8	21
36	Influence of the APOE $\epsilon$ 4 Allele and Mild Cognitive Impairment Diagnosis in the Disruption of the MEG Resting State Functional Connectivity in Sources Space. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 493-505.	1.2	57

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37	Analysis of neural dynamics in mild cognitive impairment and Alzheimer's disease using wavelet turbulence. <i>Journal of Neural Engineering</i> , 2014, 11, 026010.	1.8	25
38	Analysis of magnetoencephalography recordings from Alzheimer's disease patients using embedding entropies. , 2014, 2014, 702-5.		4
39	Analysis of spontaneous MEG activity in mild cognitive impairment and Alzheimer's disease using Jensen's divergence. , 2014, 2014, 1501-4.		4
40	Source Analysis of Spontaneous Magnetoencephalographic Activity in Healthy Aging and Mild Cognitive Impairment: Influence of Apolipoprotein E Polymorphism. <i>Journal of Alzheimer's Disease</i> , 2014, 43, 259-273.	1.2	20
41	Spectral analysis of resting state magnetoencephalogram activity in patients with bipolar disorder. , 2014, 2014, 2197-200.		24
42	Post-processing for spectral coherence of magnetoencephalogram background activity: Application to Alzheimer's disease. , 2014, 2014, 6345-8.		1
43	MEG spectral analysis in subtypes of mild cognitive impairment. <i>Age</i> , 2014, 36, 9624.	3.0	38
44	Cross-Approximate Entropy parallel computation on GPUs for biomedical signal analysis. Application to MEG recordings. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 112, 189-199.	2.6	10
45	Complexity and schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2013, 45, 267-276.	2.5	85
46	Changes in the MEG background activity in patients with positive symptoms of schizophrenia: spectral analysis and impact of age. <i>Physiological Measurement</i> , 2013, 34, 265-279.	1.2	9
47	MEG Delta Mapping Along the Healthy Aging-Alzheimer's Disease Continuum: Diagnostic Implications. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 495-507.	1.2	48
48	Entropy analysis of MEG background activity in Attention-Deficit/Hyperactivity Disorder. , 2013, 2013, 5057-60.		8
49	Spectral changes in spontaneous MEG activity across the lifespan. <i>Journal of Neural Engineering</i> , 2013, 10, 066006.	1.8	58
50	Brain-wide slowing of spontaneous alpha rhythms in mild cognitive impairment. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 100.	1.7	78
51	Analysis of spontaneous MEG activity in mild cognitive impairment and Alzheimer's disease using spectral entropies and statistical complexity measures. <i>Journal of Neural Engineering</i> , 2012, 9, 036007.	1.8	48
52	Synchrony analysis of spontaneous MEG activity in Alzheimer's disease patients. , 2012, 2012, 6188-91.		3
53	Complexity analysis of spontaneous brain activity: effects of depression and antidepressant treatment. <i>Journal of Psychopharmacology</i> , 2012, 26, 636-643.	2.0	96
54	Brain oscillatory complexity across the life span. <i>Clinical Neurophysiology</i> , 2012, 123, 2154-2162.	0.7	46

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55	The correlation between white-matter microstructure and the complexity of spontaneous brain activity: A diffusion tensor imaging-MEG study. <i>NeuroImage</i> , 2011, 57, 1300-1307.	2.1	26
56	Lempel-Ziv complexity in schizophrenia: A MEG study. <i>Clinical Neurophysiology</i> , 2011, 122, 2227-2235.	0.7	77
57	Magnetoencephalography as a Putative Biomarker for Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-10.	1.1	43
58	MEG Connectivity Analysis in Patients with Alzheimer's Disease Using Cross Mutual Information and Spectral Coherence. <i>Annals of Biomedical Engineering</i> , 2011, 39, 524-536.	1.3	40
59	Quantitative Evaluation of Artifact Removal in Real Magnetoencephalogram Signals with Blind Source Separation. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2274-2286.	1.3	65
60	Regularity analysis of spontaneous MEG activity in Attention-Deficit/Hyperactivity Disorder. , 2011, 2011, 1765-8.		11
61	Neurophysiological and Neuropsychological Models of Depression. <i>Frontiers in Neuroscience</i> , 2011, , 27-56.	0.0	0
62	Structural and Functional Patterns in Healthy Aging, Mild Cognitive Impairment, and Alzheimer Disease. <i>Alzheimer Disease and Associated Disorders</i> , 2010, 24, 1-10.	0.6	26
63	Complexity Analysis of Spontaneous Brain Activity in Alzheimer Disease and Mild Cognitive Impairment. <i>Alzheimer Disease and Associated Disorders</i> , 2010, 24, 182-189.	0.6	59
64	Analysis of spontaneous MEG activity in mild cognitive impairment using spectral entropies and disequilibrium measures. , 2010, 2010, 6296-9.		0
65	MEG analysis in Alzheimer's disease computing approximate entropy for different frequency bands. , 2010, 2010, 2379-82.		7
66	Study of the MEG background activity in Alzheimer's disease patients with scaling analysis methods. , 2009, 2009, 3485-8.		3
67	Disturbed Beta Band Functional Connectivity in Patients With Mild Cognitive Impairment: An MEG Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1683-1690.	2.5	62
68	Analysis of MEG Background Activity in Alzheimer's Disease Using Nonlinear Methods and ANFIS. <i>Annals of Biomedical Engineering</i> , 2009, 37, 586-594.	1.3	64
69	Use of the Higuchi's fractal dimension for the analysis of MEG recordings from Alzheimer's disease patients. <i>Medical Engineering and Physics</i> , 2009, 31, 306-313.	0.8	131
70	Blind source separation to enhance spectral and non-linear features of magnetoencephalogram recordings. Application to Alzheimer's disease. <i>Medical Engineering and Physics</i> , 2009, 31, 872-879.	0.8	24
71	Complexity Analysis of Spontaneous Brain Activity in Attention-Deficit/Hyperactivity Disorder: Diagnostic Implications. <i>Biological Psychiatry</i> , 2009, 65, 571-577.	0.7	87
72	Regional Analysis of Spontaneous MEG Rhythms in Patients with Alzheimer's Disease Using Spectral Entropies. <i>Annals of Biomedical Engineering</i> , 2008, 36, 141-152.	1.3	45

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73	Spectral and Nonlinear Analyses of MEG Background Activity in Patients With Alzheimer's Disease. IEEE Transactions on Biomedical Engineering, 2008, 55, 1658-1665.	2.5	69
74	Assessment of classification improvement in patients with Alzheimer's disease based on magnetoencephalogram blind source separation. Artificial Intelligence in Medicine, 2008, 43, 75-85.	3.8	20
75	Evaluation of spectral ratio measures from spontaneous MEG recordings in patients with Alzheimer's disease. Computer Methods and Programs in Biomedicine, 2008, 90, 137-147.	2.6	35
76	The perception of emotion-free faces in schizophrenia: A magneto-encephalography study. Schizophrenia Research, 2008, 98, 278-286.	1.1	11
77	Increased biomagnetic activity in the ventral pathway in mild cognitive impairment. Clinical Neurophysiology, 2008, 119, 1320-1327.	0.7	34
78	Magnetoencephalographic pattern of epileptiform activity in children with early-onset autism spectrum disorders. Clinical Neurophysiology, 2008, 119, 626-634.	0.7	39
79	Magnetoencephalography for research of auditory cortex. Acta Oto-Laryngologica, 2008, 128, 547-550.	0.3	4
80	Nonlinear forecasting measurement of magnetoencephalogram recordings from Alzheimer's disease patients. , 2008, 2008, 2153-6.		1
81	Analysis of spontaneous MEG activity in Alzheimer's disease using time-frequency parameters. , 2008, 2008, 5712-5.		6
82	Analysis of Spontaneous MEG Activity in Patients with Alzheimer's Disease using Spectral Entropies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6180-3.	0.5	15
83	Magnetoencephalogram Blind Source Separation and Component Selection Procedure to Improve the Diagnosis of Alzheimer's Disease Patients. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5437-40.	0.5	1
84	Analysis of MEG recordings from Alzheimer's disease patients with sample and multiscale entropies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6184-7.	0.5	8
85	Extraction of spectral based measures from MEG background oscillations in Alzheimer's disease. Medical Engineering and Physics, 2007, 29, 1073-1083.	0.8	97
86	Analysis of the magnetoencephalogram background activity in Alzheimer's disease patients with auto-mutual information. Computer Methods and Programs in Biomedicine, 2007, 87, 239-247.	2.6	38
87	Artifact Removal in Magnetoencephalogram Background Activity With Independent Component Analysis. IEEE Transactions on Biomedical Engineering, 2007, 54, 1965-1973.	2.5	65
88	MEG spectral profile in Alzheimer's disease and mild cognitive impairment. Clinical Neurophysiology, 2006, 117, 306-314.	0.7	104
89	Paroxysmal MEG activity in obsessive compulsive patients without SSRIs therapy. European Psychiatry, 2006, 21, 139-141.	0.1	5
90	Shifting-Related Brain Magnetic Activity in Attention-Deficit/Hyperactivity Disorder. Biological Psychiatry, 2006, 59, 373-379.	0.7	49

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91	Medial temporal lobe neuromagnetic hypoactivation and risk for developing cognitive decline in elderly population: A 2-year follow-up study. <i>Neurobiology of Aging</i> , 2006, 27, 32-37.	1.5	26
92	Quantitative Magnetoencephalography of Spontaneous Brain Activity in Alzheimer Disease. <i>Alzheimer Disease and Associated Disorders</i> , 2006, 20, 153-159.	0.6	37
93	Complexity analysis of the magnetoencephalogram background activity in Alzheimer's disease patients. <i>Medical Engineering and Physics</i> , 2006, 28, 851-859.	0.8	66
94	Magnetoencephalogram background activity analysis in Alzheimer's disease patients using auto mutual information. , 2006, 2006, 6181-4.		8
95	Magnetoencephalographic Parietal $\hat{\Gamma}$ Dipole Density in Mild Cognitive Impairment. <i>Archives of Neurology</i> , 2006, 63, 427.	4.9	64
96	Effects of Cholinergic Drugs and Cognitive Training on Dementia: 2-Year Follow-Up. <i>Dementia and Geriatric Cognitive Disorders</i> , 2006, 22, 339-345.	0.7	63
97	Could activity in anterior frontal regions predict performance on declarative memory tests?. <i>NeuroReport</i> , 2005, 16, 337-341.	0.6	2
98	Prefrontal Brain Magnetic Activity: Effects of Memory Task Demands.. <i>Neuropsychology</i> , 2005, 19, 301-308.	1.0	6
99	Activity in human medial temporal lobe associated with encoding process in spatial working memory revealed by magnetoencephalography. <i>European Journal of Neuroscience</i> , 2005, 21, 1741-1748.	1.2	16
100	Decreased Lempel-Ziv complexity in Alzheimer's disease patients' magnetoencephalograms. , 2005, 2005, 4514-7.		7
101	Evidence of Biochemical and Biomagnetic Interactions in Alzheimer's Disease: An MEG and MR Spectroscopy Study. <i>Dementia and Geriatric Cognitive Disorders</i> , 2005, 20, 145-152.	0.7	20
102	Proton Magnetic Resonance Spectroscopy and Magnetoencephalographic Estimation of Delta Dipole Density: A Combination of Techniques That May Contribute to the Diagnosis of Alzheimer's Disease. <i>Dementia and Geriatric Cognitive Disorders</i> , 2005, 20, 169-177.	0.7	30
103	Is medial temporal lobe activation specific for encoding long-term memories?. <i>NeuroImage</i> , 2005, 25, 34-42.	2.1	23
104	Increased occipital delta dipole density in major depressive disorder determined by magnetoencephalography. <i>Journal of Psychiatry and Neuroscience</i> , 2005, 30, 17-23.	1.4	27
105	Activation of the prefrontal cortex in the human visual aesthetic perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6321-6325.	3.3	254
106	Profiles of brain magnetic activity during a memory task in patients with Alzheimer's disease and in non-demented elderly subjects, with or without depression. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2004, 75, 1160-1162.	0.9	17
107	Time Modulated Prefrontal and Parietal Activity during the Maintenance of Integrated Information as Revealed by Magnetoencephalography. <i>Cerebral Cortex</i> , 2004, 15, 123-130.	1.6	21
108	Cortical organization for receptive language functions in Chinese, English, and Spanish: a cross-linguistic MEG study. <i>Neuropsychologia</i> , 2004, 42, 967-979.	0.7	49

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109	Task-specific sensory and motor preparatory activation revealed by contingent magnetic variation. <i>Cognitive Brain Research</i> , 2004, 21, 59-68.	3.3	55
110	Time-modulated enhancing of the fronto-parietal circuits in the very-old elders. <i>Cognitive Brain Research</i> , 2004, 21, 69-76.	3.3	6
111	Can small lesions induce language reorganization as large lesions do?. <i>Brain and Language</i> , 2004, 89, 433-438.	0.8	22
112	Spatiotemporal brain dynamics during preparatory set shifting: MEG evidence. <i>NeuroImage</i> , 2004, 21, 687-695.	2.1	77
113	Dipole Density of Low-Frequency and Spike Magnetic Activity: A Reliable Procedure in Presurgical Evaluation of Temporal Lobe Epilepsy. <i>Journal of Clinical Neurophysiology</i> , 2004, 21, 254-266.	0.9	12
114	Limbic Paroxysmal Magnetoencephalographic Activity in 12 Obsessive-Compulsive Disorder Patients. <i>Journal of Clinical Psychiatry</i> , 2004, 65, 156-162.	1.1	19
115	Modulation of brain magnetic activity by different verbal learning strategies. <i>NeuroImage</i> , 2003, 20, 1110-1121.	2.1	29
116	Magnetoencephalographic localization of peritumoral temporal epileptic focus previous surgical resection. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2003, 12, 19-22.	0.9	12
117	Do cognitive patterns of brain magnetic activity correlate with hippocampal atrophy in Alzheimer's disease?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 208-212.	0.9	38
118	Correlations of hippocampal atrophy and focal low-frequency magnetic activity in Alzheimer disease: volumetric MR imaging-magnetoencephalographic study. <i>American Journal of Neuroradiology</i> , 2003, 24, 481-7.	1.2	90
119	Focal temporoparietal slow activity in Alzheimer's disease revealed by magnetoencephalography. <i>Biological Psychiatry</i> , 2002, 52, 764-770.	0.7	127
120	Spanish Language Mapping Using MEG: A Validation Study. <i>NeuroImage</i> , 2002, 17, 1579-1586.	2.1	91
121	Neural Processing to Visual Stimuli in a Three-Choice Reaction-Time Task. <i>Brain and Cognition</i> , 2001, 47, 383-396.	0.8	2
122	Spatio-temporal patterns of brain magnetic activity during a memory task in Alzheimer's disease. <i>NeuroReport</i> , 2001, 12, 3917-3922.	0.6	55
123	Expectancy and response strategy in a three-choice visual task. <i>Electroencephalography and Clinical Neurophysiology</i> , 1996, 99, 491-493.	0.3	1