

Jose L Cantero

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,421
citations

126907

33
h-index

149698

56
g-index

63
all docs

63
docs citations

63
times ranked

4541
citing authors

#	ARTICLE	IF	CITATIONS
1	The restorative effect of naps on perceptual deterioration. <i>Nature Neuroscience</i> , 2002, 5, 677-681.	14.8	298
2	Sleep-Dependent δ Oscillations in the Human Hippocampus and Neocortex. <i>Journal of Neuroscience</i> , 2003, 23, 10897-10903.	3.6	269
3	The Time Course of Neural Changes Underlying Auditory Perceptual Learning. <i>Learning and Memory</i> , 2002, 9, 138-150.	1.3	209
4	Reduction of Basal Forebrain Cholinergic System Parallels Cognitive Impairment in Patients at High Risk of Developing Alzheimer's Disease. <i>Cerebral Cortex</i> , 2010, 20, 1685-1695.	2.9	183
5	Human alpha oscillations in wakefulness, drowsiness period, and REM sleep: different electroencephalographic phenomena within the alpha band. <i>Neurophysiologie Clinique</i> , 2002, 32, 54-71.	2.2	167
6	Posttraining Sleep Enhances Automaticity in Perceptual Discrimination. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 53-64.	2.3	147
7	The cholinergic system in mild cognitive impairment and Alzheimer's disease: An in vivo MRI and DTI study. <i>Human Brain Mapping</i> , 2011, 32, 1349-1362.	3.6	136
8	Gamma EEG dynamics in neocortex and hippocampus during human wakefulness and sleep. <i>NeuroImage</i> , 2004, 22, 1271-1280.	4.2	123
9	Measuring directional coupling between EEG sources. <i>NeuroImage</i> , 2008, 43, 497-508.	4.2	115
10	Polysomnographic and Subjective Sleep Markers of Mild Cognitive Impairment. <i>Sleep</i> , 2013, 36, 1327-1334.	1.1	111
11	Disturbed Sleep Patterns in Elders with Mild Cognitive Impairment: The Role of Memory Decline and ApoE ϵ 4 Genotype. <i>Current Alzheimer Research</i> , 2012, 9, 290-297.	1.4	97
12	Effects of network resolution on topological properties of human neocortex. <i>NeuroImage</i> , 2012, 59, 3522-3532.	4.2	97
13	Alpha EEG coherence in different brain states: an electrophysiological index of the arousal level in human subjects. <i>Neuroscience Letters</i> , 1999, 271, 167-170.	2.1	77
14	Mismatch negativity (MMN): an objective measure of sensory memory and long-lasting memories during sleep. <i>International Journal of Psychophysiology</i> , 2002, 46, 215-225.	1.0	72
15	The mismatch negativity component reveals the sensory memory during REM sleep in humans. <i>Neuroscience Letters</i> , 1997, 237, 21-24.	2.1	69
16	The Role of Neural Synchronization in the Emergence of Cognition Across the Wake-Sleep Cycle. <i>Reviews in the Neurosciences</i> , 2005, 16, 69-84.	2.9	68
17	Relating structural and functional anomalous connectivity in the aging brain via neural mass modeling. <i>NeuroImage</i> , 2010, 52, 848-861.	4.2	57
18	Unmasking selective path integration deficits in Alzheimer's disease risk carriers. <i>Science Advances</i> , 2020, 6, eaba1394.	10.3	55

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19	Functional integrity of thalamocortical circuits differentiates normal aging from mild cognitive impairment. <i>Human Brain Mapping</i> , 2009, 30, 3944-3957.	3.6	54
20	Increased synchronization and decreased neural complexity underlie thalamocortical oscillatory dynamics in mild cognitive impairment. <i>NeuroImage</i> , 2009, 46, 938-948.	4.2	51
21	Sleep deficits in mild cognitive impairment are related to increased levels of plasma amyloid- β^2 and cortical thinning. <i>NeuroImage</i> , 2014, 98, 395-404.	4.2	50
22	Regional Hippocampal Atrophy and Higher Levels of Plasma Amyloid-Beta Are Associated With Subjective Memory Complaints in Nondemented Elderly Subjects. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1210-1215.	3.6	49
23	Low-grade inflammation in the relationship between sleep disruption, dysfunctional adiposity, and cognitive decline in aging. <i>Sleep Medicine Reviews</i> , 2018, 42, 171-183.	8.5	49
24	Detection of focal changes in human cortical thickness: Spherical wavelets versus Gaussian smoothing. <i>NeuroImage</i> , 2008, 41, 1278-1292.	4.2	48
25	Determining the optimal level of smoothing in cortical thickness analysis: A hierarchical approach based on sequential statistical thresholding. <i>NeuroImage</i> , 2010, 52, 158-171.	4.2	47
26	Brain spatial microstates of human spontaneous alpha activity in relaxed wakefulness, drowsiness period, and REM sleep. <i>Brain Topography</i> , 1999, 11, 257-263.	1.8	44
27	Nightcap: A Reliable System for Determining Sleep Onset Latency. <i>Sleep</i> , 2002, 25, 238-245.	1.1	41
28	Increased levels of plasma amyloid-beta are related to cortical thinning and cognitive decline in cognitively normal elderly subjects. <i>Neurobiology of Aging</i> , 2015, 36, 2791-2797.	3.1	40
29	Focal cortical damage parallels cognitive impairment in minimal hepatic encephalopathy. <i>NeuroImage</i> , 2012, 61, 1165-1175.	4.2	39
30	Volume Loss of the Nucleus Basalis of Meynert is Associated with Atrophy of Innervated Regions in Mild Cognitive Impairment. <i>Cerebral Cortex</i> , 2016, 27, 3881-3889.	2.9	39
31	Semantic Congruence Enhances Memory of Episodic Associations: Role of Theta Oscillations. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 75-90.	2.3	38
32	Theta Band Zero-Lag Long-Range Cortical Synchronization via Hippocampal Dynamical Relaying. <i>PLoS ONE</i> , 2011, 6, e17756.	2.5	37
33	Effects of semantic relatedness on age-related associative memory deficits: The role of theta oscillations. <i>NeuroImage</i> , 2012, 61, 1235-1248.	4.2	37
34	Effects of Prolonged Waking-Auditory Stimulation on Electroencephalogram Synchronization and Cortical Coherence during Subsequent Slow-Wave Sleep. <i>Journal of Neuroscience</i> , 2002, 22, 4702-4708.	3.6	33
35	Redefining memory consolidation. <i>Behavioral and Brain Sciences</i> , 2005, 28, 64-65.	0.7	29
36	Aging-Related Changes in Cognition and Cortical Integrity are Associated With Serum Expression of Candidate MicroRNAs for Alzheimer Disease. <i>Cerebral Cortex</i> , 2019, 29, 4426-4437.	2.9	28

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37	Role of tau protein on neocortical and hippocampal oscillatory patterns. <i>Hippocampus</i> , 2011, 21, 827-834.	1.9	27
38	Predictors of coupling between structural and functional cortical networks in normal aging. <i>Human Brain Mapping</i> , 2014, 35, 2724-2740.	3.6	26
39	Lower serum expression of miR-181c-5p is associated with increased plasma levels of amyloid-beta 1 β and cerebral vulnerability in normal aging. <i>Translational Neurodegeneration</i> , 2019, 8, 34.	8.0	26
40	Atrophy of Basal Forebrain Initiates with Tau Pathology in Individuals at Risk for Alzheimer's Disease. <i>Cerebral Cortex</i> , 2020, 30, 2083-2098.	2.9	25
41	Eyelid movements measured by Nightcap predict slow eye movements during quiet wakefulness in humans. <i>Journal of Sleep Research</i> , 2004, 13, 25-29.	3.2	22
42	Atrophy of amygdala and abnormal memory-related alpha oscillations over posterior cingulate predict conversion to Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 31859.	3.3	19
43	Semantic congruence reverses effects of sleep restriction on associative encoding. <i>Neurobiology of Learning and Memory</i> , 2014, 110, 27-34.	1.9	17
44	Cerebral and blood correlates of reduced functional connectivity in mild cognitive impairment. <i>Brain Structure and Function</i> , 2016, 221, 631-645.	2.3	16
45	Sleep mediates the association between homocysteine and oxidative status in mild cognitive impairment. <i>Scientific Reports</i> , 2017, 7, 7719.	3.3	16
46	Effects of PER3 clock gene polymorphisms on aging-related changes of the cerebral cortex. <i>Brain Structure and Function</i> , 2018, 223, 597-607.	2.3	14
47	Different Scales of Cortical Organization are Selectively Targeted in the Progression to Alzheimer's Disease. <i>International Journal of Neural Systems</i> , 2016, 26, 1650003.	5.2	13
48	Weakly encoded memories due to acute sleep restriction can be rescued after one night of recovery sleep. <i>Scientific Reports</i> , 2020, 10, 1449.	3.3	12
49	Impaired cortical oscillatory coupling in mild cognitive impairment: anatomical substrate and ApoE4 effects. <i>Brain Structure and Function</i> , 2015, 220, 1721-1737.	2.3	11
50	Salivary lactoferrin is associated with cortical amyloid-beta load, cortical integrity, and memory in aging. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 150.	6.2	11
51	Effects of waking-auditory stimulation on human sleep architecture. <i>Behavioural Brain Research</i> , 2002, 128, 53-59.	2.2	10
52	APOE ϵ 4 constrains engagement of encoding-related compensatory networks in amnesic mild cognitive impairment. <i>Hippocampus</i> , 2015, 25, 993-1007.	1.9	10
53	Cerebral changes and disrupted gray matter cortical networks in asymptomatic older adults at risk for Alzheimer's disease. <i>Neurobiology of Aging</i> , 2018, 64, 58-67.	3.1	8
54	Blood total antioxidant status is associated with cortical glucose uptake and factors related to accelerated aging. <i>Brain Structure and Function</i> , 2020, 225, 841-851.	2.3	8

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55	Damage of the temporal lobe and APOE status determine neural compensation in mild cognitive impairment. <i>Cortex</i> , 2018, 101, 136-153.	2.4	6
56	Plasma tau predicts cerebral vulnerability in aging. <i>Aging</i> , 2020, 12, 21004-21022.	3.1	5
57	Associations of Salivary Total Antioxidant Capacity With Cortical Amyloid-Beta Burden, Cortical Glucose Uptake, and Cognitive Function in Normal Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1839-1845.	3.6	4
58	Stability of neural encoding moderates the contribution of sleep and repeated testing to memory consolidation. <i>Neurobiology of Learning and Memory</i> , 2021, 185, 107529.	1.9	3
59	Impaired glucose metabolism reduces the neuroprotective action of adipocytokines in cognitively normal older adults with insulin resistance. <i>Aging</i> , 2021, 13, 23936-23952.	3.1	3
60	Linking Plasma Amyloid Beta and Neurofilament Light Chain to Intracortical Myelin Content in Cognitively Normal Older Adults. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	3.4	2
61	Gamma EEG dynamics in neocortex and hippocampus during human wakefulness and sleep. <i>NeuroImage</i> , 2004, 22, 1271-1271.	4.2	0