Cesar Avila

List of Publications by Year
in descending order

141 papers	6,448 citations	81900 39 h-index	76900 74 g-index
149 all docs	149 docs citations	149 times ranked	7456 citing authors

#	Article	IF	Citations
1	The Sensitivity to Punishment and Sensitivity to Reward Questionnaire (SPSRQ) as a measure of Gray's anxiety and impulsivity dimensions. Personality and Individual Differences, 2001, 31, 837-862.	2.9	1,017
2	Reading cinnamon activates olfactory brain regions. NeuroImage, 2006, 32, 906-912.	4.2	378
3	Bridging language and attention: Brain basis of the impact of bilingualism on cognitive control. NeuroImage, 2010, 53, 1272-1278.	4.2	248
4	The measurement of individual differences in Behavioural Inhibition and Behavioural Activation Systems: a comparison of personality scales. Personality and Individual Differences, 2003, 34, 999-1013.	2.9	216
5	The Role of Behavioral Impulsivity in the Development of Alcohol Dependence: A 4â€Year Followâ€Up Study. Alcoholism: Clinical and Experimental Research, 2008, 32, 1681-1687.	2.4	176
6	Distinguishing BIS-mediated and BAS-mediated disinhibition mechanisms: A comparison of disinhibition models of Gray (1981, 1987) and of Patterson and Newman (1993).. Journal of Personality and Social Psychology, 2001, 80, 311-324.	2.8	157
7	Reading Salt Activates Gustatory Brain Regions: fMRI Evidence for Semantic Grounding in a Novel Sensory Modality. Cerebral Cortex, 2012, 22, 2554-2563.	2.9	144
8	Reduced striatal volume in cocaine-dependent patients. NeuroImage, 2011, 56, 1021-1026.	4.2	128
9	Behavioral Inhibition System activity is associated with increased amygdala and hippocampal gray matter volume: A voxel-based morphometry study. NeuroImage, 2006, 33, 1011-1015.	4.2	127
10	Striatum gray matter reduction in males with an overactive behavioral activation system. European Journal of Neuroscience, 2006, 24, 2071-2074.	2.6	120
11	Neural bases of language switching in high and early proficient bilinguals. Brain and Language, 2011, 119, 129-135.	1.6	103
12	Personality and inhibitory deficits in the stop-signal task: the mediating role of Grayâ€™s anxiety and impulsivity. Personality and Individual Differences, 2001, 31, 975-986.	2.9	97
13	An Effect of Bilingualism on the Auditory Cortex. Journal of Neuroscience, 2012, 32, 16597-16601.	3.6	95
14	Bilingualism at the core of the brain. Structural differences between bilinguals and monolinguals revealed by subcortical shape analysis. NeuroImage, 2016, 125, 437-445.	4.2	91
15	Measuring Impulsivity in School-Aged Boys and Examining Its Relationship with ADHD and ODD Ratings. Journal of Abnormal Child Psychology, 2004, 32, 295-304.	3.5	90
16	Cortical reorganization during PASAT task in MS patients with preserved working memory functions. NeuroImage, 2006, 31, 686-691.	4.2	88
17	Spontaneous Brain Activity Predicts Learning Ability of Foreign Sounds. Journal of Neuroscience, 2013, 33, 9295-9305.	3.6	85
18	Heightened Heart Rate Response to Alcohol Intoxication Is Associated With a Rewardâ€Seeking Personality Profile. Alcoholism: Clinical and Experimental Research, 2004, 28, 394-401.	2.4	80

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19	Impulsivity and Sustained Attention in Pathological Gamblers: Influence of Childhood ADHD History. Journal of Gambling Studies, 2006, 22, 451-461.	1.6	80
20	Information-processing speed is the primary deficit underlying the poor performance of multiple sclerosis patients in the Paced Auditory Serial Addition Test (PASAT). Journal of Clinical and Experimental Neuropsychology, 2008, 30, 789-796.	1.3	79
21	Modulation of Functional Connectivity in Auditoryâ€“Motor Networks in Musicians Compared with Nonmusicians. Cerebral Cortex, 2017, 27, bhw120.	2.9	69
22	The link between resting-state functional connectivity and cognition in MS patients. Multiple Sclerosis Journal, 2014, 20, 338-348.	3.0	68
23	Lower activation in the right frontoparietal network during a counting Stroop task in a cocaine-dependent group. Psychiatry Research - Neuroimaging, 2011, 194, 111-118.	1.8	67
24	Regional Brain Atrophy and Functional Connectivity Changes Related to Fatigue in Multiple Sclerosis. PLoS ONE, 2013, 8, e77914.	2.5	67
25	Compensatory activations in patients with multiple sclerosis during preserved performance on the auditory N-back task. Human Brain Mapping, 2007, 28, 424-430.	3.6	64
26	Compensatory cortical mechanisms in Parkinson's disease evidenced with fMRI during the performance of pre-learned sequential movements. Brain Research, 2007, 1147, 265-271.	2.2	63
27	Involvement of the human midbrain and thalamus in auditory deviance detection. Neuropsychologia, 2015, 68, 51-58.	1.6	55
28	Individual differences in the Behavioral Inhibition System are associated with orbitofrontal cortex and precuneus gray matter volume. Cognitive, Affective and Behavioral Neuroscience, 2012, 12, 491-498.	2.0	53
29	Bilinguals Use Language-Control Brain Areas More Than Monolinguals to Perform Non-Linguistic Switching Tasks. PLoS ONE, 2013, 8, e73028.	2.5	53
30	Sex differences in gray matter volume: how many and how large are they really?. Biology of Sex Differences, 2019, 10, 32.	4.1	51
31	A Symbol Digit Modalities Test version suitable for functional MRI studies. Neuroscience Letters, 2009, 456, 11-14.	2.1	50
32	Abstinence duration modulates striatal functioning during monetary reward processing in cocaine patients. Addiction Biology, 2014, 19, 885-894.	2.6	50
33	Inferior frontal cortex activity is modulated by reward sensitivity and performance variability. Biological Psychology, 2016, 114, 127-137.	2.2	50
34	Varieties of Impulsivity in Males With Alcohol Dependence: The Role of Cluster-B Personality Disorder. Alcoholism: Clinical and Experimental Research, 2007, 31, 1826-1832.	2.4	49
35	Differential dorsolateral prefrontal cortex activation during a verbal n-back task according to sensory modality. Behavioural Brain Research, 2009, 205, 299-302.	2.2	48
36	Anatomical and functional differences between the Paced Auditory Serial Addition Test and the Symbol Digit Modalities Test. Journal of Clinical and Experimental Neuropsychology, 2011, 33, 42-50.	1.3	48

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37	State and Training Effects of Mindfulness Meditation on Brain Networks Reflect Neuronal Mechanisms of Its Antidepressant Effect. Neural Plasticity, 2016, 2016, 1-14.	2.2	47
38	Top-down attention regulates the neural expression of audiovisual integration. NeuroImage, 2015, 119, 272-285.	4.2	46
39	Functional magnetic resonance imaging correlates of cognitive performance in patients with a clinically isolated syndrome suggestive of multiple sclerosis at presentation: an activation and connectivity study. Multiple Sclerosis Journal, 2012, 18, 153-163.	3.0	45
40	An fMRI Study to Analyze Neural Correlates of Presence during Virtual Reality Experiences. Interacting With Computers, 2014, 26, 269-284.	1.5	44
41	Comparison of two fMRI tasks for the evaluation of the expressive language function. Neuroradiology, 2010, 52, 407-415.	2.2	41
42	Complexity analysis of cortical surface detects changes in future Alzheimer's disease converters. Human Brain Mapping, 2017, 38, 5905-5918.	3.6	41
43	Long-term brain effects of N-back training: an fMRI study. Brain Imaging and Behavior, 2019, 13, 1115-1127.	2.1	40
44	Alterations in Brain Structure and Amplitude of Low-frequency after 8 weeks of Mindfulness Meditation Training in Meditation-NaÃ¯ve Subjects. Scientific Reports, 2019, 9, 10977.	3.3	40
45	Opening or closing eyes at rest modulates the functional connectivity of V1 with default and salience networks. Scientific Reports, 2020, 10, 9137.	3.3	40
46	The Taq IA polymorphism linked to the DRD2 gene is related to lower attention and less inhibitory control in alcoholic patients. European Psychiatry, 2006, 21, 66-69.	0.2	39
47	A cross-sectional and longitudinal study on the protective effect of bilingualism against dementia using brain atrophy and cognitive measures. Alzheimer's Research and Therapy, 2020, 12, 11.	6.2	39
48	Hippocampal dysfunction is associated with memory impairment in multiple sclerosis: A volumetric and functional connectivity study. Multiple Sclerosis Journal, 2017, 23, 1854-1863.	3.0	38
49	The role of Gray's impulsivity in anxiety-mediated differences in resistance to extinction. European Journal of Personality, 2000, 14, 185-198.	3.1	37
50	Right parietal hypoactivation in a cocaine-dependent group during a verbal working memory task. Brain Research, 2011, 1375, 111-119.	2.2	37
51	Sensitivity to Conditioned or Unconditioned Stimuli: What Is the Mechanism Underlying Passive Avoidance Deficits in Extraverts?. Journal of Research in Personality, 1995, 29, 373-394.	1.7	35
52	Task-load manipulation in the Symbol Digit Modalities Test: An alternative measure of information processing speed. Brain and Cognition, 2013, 82, 152-160.	1.8	33
53	Reward Sensitivity Is Associated with Brain Activity during Erotic Stimulus Processing. PLoS ONE, 2013, 8, e66940.	2.5	33
54	Hand gestures as visual prosody: BOLD responses to audioâ€“visual alignment are modulated by the communicative nature of the stimuli. NeuroImage, 2016, 132, 129-137.	4.2	32

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55	Linking personality and brain anatomy: a structural MRI approach to Reinforcement Sensitivity Theory. Social Cognitive and Affective Neuroscience, 2019, 14, 329-338.	3.0	32
56	A cognitive neuroscience approach to individual differences in sensitivity to reward. Neurotoxicity Research, 2008, 14, 191-203.	2.7	30
57	Implicit Word Cues Facilitate Impaired Naming Performance: Evidence from a Case of Anomia. Brain and Language, 2001, 79, 185-200.	1.6	29
58	How bilingualism shapes the functional architecture of the brain: A study on executive control in early bilinguals and monolinguals. Human Brain Mapping, 2015, 36, 5101-5112.	3.6	29
59	Facilitation and inhibition of visual orienting as a function of personality. Personality and Individual Differences, 1995, 18, 503-509.	2.9	28
60	Personality, expectations, and response strategies in multipleâ€choice question examinations in university students: a test of Gray's hypotheses. European Journal of Personality, 2004, 18, 45-59.	3.1	28
61	Reinforcement sensitivity scales. , 2008, , 188-227.		28
62	Learning and Memory Impairments in Patients with Minimal Hepatic Encephalopathy are Associated with Structural and Functional Connectivity Alterations in Hippocampus. Scientific Reports, 2018, 8, 9664.	3.3	28
63	Extreme Learning Machines for Feature Selection and Classification of Cocaine Dependent Patients on Structural MRI Data. Neural Processing Letters, 2013, 38, 375-387.	3.2	27
64	Behavioral activation system modulation on brain activation during appetitive and aversive stimulus processing. Social Cognitive and Affective Neuroscience, 2010, 5, 18-28.	3.0	26
65	Reward sensitivity modulates connectivity among reward brain areas during processing of anticipatory reward cues. European Journal of Neuroscience, 2013, 38, 2399-2407.	2.6	26
66	Do bilinguals show neural differences with monolinguals when processing their native language?. Brain and Language, 2015, 142, 36-44.	1.6	26
67	Left frontoparietal network activity is modulated by drug stimuli in cocaine addiction. Brain Imaging and Behavior, 2018, 12, 1259-1270.	2.1	26
68	Analysis of multiple waveforms by means of functional principal component analysis: normal versus pathological patterns in sit-to-stand movement. Medical and Biological Engineering and Computing, 2008, 46, 551-561.	2.8	25
69	Anxiety and counter-conditioning: the role of the behavioral inhibition system in the ability to associate aversive stimuli with future rewards. Personality and Individual Differences, 1999, 27, 1167-1179.	2.9	24
70	On the relationship between attention and personality: covert visual orienting of attention in anxiety and impulsivity. Personality and Individual Differences, 2004, 36, 1471-1481.	2.9	24
71	Selective alteration of native, but not second language articulation in a patient with foreign accent syndrome. NeuroReport, 2004, 15, 2267-2270.	1.2	24
72	Differential neural control in early bilinguals and monolinguals during response inhibition. Brain and Language, 2014, 132, 43-51.	1.6	24

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73	Active bilingualism delays the onset of mild cognitive impairment. Neuropsychologia, 2020, 146, 107528.	1.6	24
74	Individual differences in reward sensitivity and attentional focus. Personality and Individual Differences, 2002, 33, 979-996.	2.9	23
75	Mapping the apetitive and aversive systems with emotional pictures using a block-design fMRI procedure. Psicothema, 2007, 19, 483-8.	0.9	23
76	Reduced resting state connectivity and gray matter volume correlate with cognitive impairment in minimal hepatic encephalopathy. PLoS ONE, 2017, 12, e0186463.	2.5	22
77	Impulsivity and anxiety differences in cognitive inhibition. Personality and Individual Differences, 1997, 23, 1055-1064.	2.9	21
78	Utilidad de la monitorizaciÃ³n Video-EEG en los pacientes con epilepsia farmacorresistente. NeurologÃa, 2011, 26, 6-12.	0.7	20
79	BAS-drive trait modulates dorsomedial striatum activity during reward response-outcome associations. Brain Imaging and Behavior, 2016, 10, 869-879.	2.1	20
80	Locating neural transfer effects of n-back training on the central executive: a longitudinal fMRI study. Scientific Reports, 2020, 10, 5226.	3.3	20
81	Sensitivity to punishment and resistance to extinction: a test of Gray's behavioral inhibition system. Personality and Individual Differences, 1994, 17, 845-847.	2.9	19
82	A comparison of brain activation patterns during covert and overt paced auditory serial addition test tasks. Human Brain Mapping, 2008, 29, 644-650.	3.6	19
83	Frontostriatal response to set switching is moderated by reward sensitivity. Social Cognitive and Affective Neuroscience, 2012, 7, 423-430.	3.0	19
84	Functional Connectivity Between Superior Parietal Lobule and Primary Visual Cortex â€œat Restâ€• Predicts Visual Search Efficiency. Brain Connectivity, 2015, 5, 517-526.	1.7	19
85	Neural differences between monolinguals and early bilinguals in their native language during comprehension. Brain and Language, 2015, 150, 80-89.	1.6	19
86	Reward network connectivity â€œat restâ€•is associated with reward sensitivity in healthy adults: A resting-state fMRI study. Cognitive, Affective and Behavioral Neuroscience, 2019, 19, 726-736.	2.0	19
87	Reduced activity in functional networks during reward processing is modulated by abstinence in cocaine addicts. Addiction Biology, 2017, 22, 479-489.	2.6	18
88	Reduced white matter microstructural integrity correlates with cognitive deficits in minimal hepatic encephalopathy. Gut, 2014, 63, 1028-1030.	12.1	17
89	Reduced posterior parietal cortex activation after training on a visual search task. NeuroImage, 2016, 135, 204-213.	4.2	15
90	Increased regional gray matter atrophy and enhanced functional connectivity in male multiple sclerosis patients. Neuroscience Letters, 2016, 630, 154-157.	2.1	15

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91	Impulsivity and total response speed to a personality questionnaire. Personality and Individual Differences, 1993, 15, 97-98.	2.9	14
92	The role of attentional anterior network on threat-related attentional biases in anxiety. Personality and Individual Differences, 2002, 32, 715-728.	2.9	14
93	Performance and conditioning studies. , 2008, , 228-260.		14
94	Neural correlates of audiovisual speech processing in a second language. Brain and Language, 2013, 126, 253-262.	1.6	14
95	Brain networks involved in accented speech processing. Brain and Language, 2019, 194, 12-22.	1.6	14
96	Reward Sensitivity Modulates Brain Activity in the Prefrontal Cortex, ACC and Striatum during Task Switching. PLoS ONE, 2015, 10, e0123073.	2.5	13
97	Accelerated long-term forgetting in resected and seizure-free temporal lobe epilepsy patients. Cortex, 2019, 110, 80-91.	2.4	13
98	BRIEF REPORT Setâ€shifting and sensitivity to reward: A possible dopamine mechanism for explaining disinhibitory disorders. Cognition and Emotion, 2003, 17, 951-959.	2.0	12
99	Morphological and functional evaluation of visual disturbances in a bilateral hand allograft recipient. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2010, 63, 700-704.	1.0	12
100	Leftâ€handed musicians show a higher probability of atypical cerebral dominance for language. Human Brain Mapping, 2020, 41, 2048-2058.	3.6	12
101	Personality differences in suppression of behavior as a function of the probability of punishment. Personality and Individual Differences, 2006, 41, 249-260.	2.9	11
102	The sentence verification task: a reliable fMRI protocol for mapping receptive language in individual subjects. European Radiology, 2010, 20, 2432-2438.	4.5	11
103	Auditory and frontal anatomic correlates of pitch discrimination in musicians, non-musicians, and children without musical training. Brain Structure and Function, 2020, 225, 2735-2744.	2.3	11
104	A new window to understanding individual differences in reward sensitivity from attentional networks. Brain Structure and Function, 2015, 220, 1807-1821.	2.3	10
105	Characterizing individual differences in reward sensitivity from the brain networks involved in response inhibition. NeuroImage, 2016, 124, 287-299.	4.2	10
106	Functional connectivity in resting state as a phonemic fluency ability measure. Neuropsychologia, 2017, 97, 98-103.	1.6	10
107	Distance disintegration delineates the brain connectivity failure of Alzheimer's disease. Neurobiology of Aging, 2020, 88, 51-60.	3.1	10
108	Grey matter reduction in the occipitotemporal cortex in Spanish children with dyslexia: A voxel-based morphometry study. Journal of Neurolinguistics, 2020, 53, 100873.	1.1	9

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109	Effects of bilingualism on white matter atrophy in mild cognitive impairment: a diffusion tensor imaging study. European Journal of Neurology, 2020, 27, 603-608.	3.3	9
110	Exploring Neural Efficiency in Multiple Sclerosis Patients during the Symbol Digit Modalities Test: A Functional Magnetic Resonance Imaging Study. Neurodegenerative Diseases, 2017, 17, 199-207.	1.4	8
111	Subcortical grey matter structures in multiple sclerosis. NeuroReport, 2018, 29, 547-552.	1.2	8
112	Repeated Working Memory Training Improves Task Performance and Neural Efficiency in Multiple Sclerosis Patients and Healthy Controls. Multiple Sclerosis International, 2019, 2019, 1-13.	0.8	8
113	Individual Differences in Hippocampal Volume as a Function of BMI and Reward Sensitivity. Frontiers in Behavioral Neuroscience, 2020, 14, 53.	2.0	8
114	A Functional Magnetic Resonance Imaging Assessment of Small Animalsâ€™ Phobia Using Virtual Reality as a Stimulus. JMIR Serious Games, 2014, 2, e6.	3.1	8
115	Temperamental traits in mice (I): Factor structure. Personality and Individual Differences, 2007, 43, 255-265.	2.9	7
116	Separate Contribution of Striatum Volume and Pitch Discrimination to Individual Differences in Music Reward. Psychological Science, 2019, 30, 1352-1361.	3.3	7
117	Restingâ€state fMRI detects the effects of learning in short term: A visual search training study. Human Brain Mapping, 2019, 40, 2787-2799.	3.6	7
118	Dynamic Effects of Immersive Bilingualism on Cortical and Subcortical Grey Matter Volumes. Frontiers in Psychology, 2022, 13, 886222.	2.1	7
119	Neuroticism predisposes to donation more than agreeableness: An fMRI study.. Journal of Neuroscience, Psychology, and Economics, 2016, 9, 100-108.	1.0	6
120	Visual search task immediate training effects on task-related functional connectivity. Brain Imaging and Behavior, 2019, 13, 1566-1579.	2.1	6
121	Foreign Language Processing Undermines Affect Labeling. Affective Science, 2021, 2, 199-206.	2.6	6
122	Temperamental traits in mice(II): Consistency across apparatus. Personality and Individual Differences, 2009, 46, 3-7.	2.9	5
123	Functional connectivity at rest captures individual differences in visual search. Brain Structure and Function, 2020, 225, 537-549.	2.3	5
124	Evidence for degraded low frequency verbal concepts in left resected temporal lobe epilepsy patients. Neuropsychologia, 2018, 114, 88-100.	1.6	4
125	Sustained and transient gray matter volume changes after n-back training: A VBM study. Neurobiology of Learning and Memory, 2021, 178, 107368.	1.9	4
126	Enhanced frontoparietal connectivity in multiple sclerosis patients and healthy controls in response to an intensive computerized training focused on working memory. Multiple Sclerosis and Related Disorders, 2021, 52, 102976.	2.0	4

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127	Analyzing the Level of Presence While Navigating in a Virtual Environment during an fMRI Scan. Lecture Notes in Computer Science, 2011, , 475-478.	1.3	4
128	The role of protest scenario in the neural response to the supportive communication. International Journal of Nonprofit and Voluntary Sector Marketing, 2012, 17, 263-274.	0.8	3
129	Bilateral inferior frontal language-related activation correlates with verbal recall in patients with left temporal lobe epilepsy and typical language distribution. Epilepsy Research, 2013, 104, 118-124.	1.6	3
130	The dynamic imprint of word learning on the dorsal language pathway. NeuroImage, 2017, 159, 261-269.	4.2	3
131	Activity in Memory Brain Networks During Encoding Differentiates Mild Cognitive Impairment Converters from Non-Converters. Journal of Alzheimer's Disease, 2019, 71, 1049-1061.	2.6	3
132	fMRI assessment of small animalsâ€™ phobia using virtual reality as stimulus. , 2013, , .		3
133	The Modulation of the Startle Reflex as Predictor of Alcohol Use Disorders in a Sample of Heavy Drinkers: A 4-Year Follow-Up Study. Alcoholism: Clinical and Experimental Research, 2017, 41, 1212-1219.	2.4	2
134	Cocaine Dependent Classification Using Brain Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2012, , 448-454.	1.3	2
135	The manifestation of individual differences in sensitivity to punishment during resting state is modulated by eye state. Cognitive, Affective and Behavioral Neuroscience, 2021, 21, 144-155.	2.0	1
136	The role of Gray's impulsivity in anxiety-mediated differences in resistance to extinction. European Journal of Personality, 2000, 14, 185-198.	3.1	1
137	Distinguishing BIS-mediated and BAS-mediated disinhibition mechanisms: A comparison of disinhibition models of Gray (1981, 1987) and of Patterson and Newman (1993).. Journal of Personality and Social Psychology, 2001, 80, 311-324.	2.8	1
138	Brainâ€Anatomy Differences in the Commission of Reversal Errors during Algebraic Word Problem Solving. Mind, Brain, and Education, 0, , .	1.9	1
139	FRI-118-Decreased cognitive performance is associated with reduced resting state connectivity and gray matter atrophy in patients with minimal hepatic encephalopathy. Journal of Hepatology, 2019, 70, e439.	3.7	0
140	P: 55â€ƒDecreased Cognitive Performance Is Associated With Reduced Resting State Connectivity and Gray Matter Atrophy in Patients With Minimal Hepatic Encephalopathy. American Journal of Gastroenterology, 2019, 114, S27-S28.	0.4	0
141	Impact of Circularity Analysis on Classification Results: A Case Study in the Detection of Cocaine Addiction Using Structural MRI. Communications in Computer and Information Science, 2013, , 101-114.	0.5	0