Francisco BarcelÃ³

List of Publications by Year
in descending order

50 papers	4,438 citations	172207 29 h-index	189595 50 g-index
55 all docs	55 docs citations	55 times ranked	5448 citing authors

#	Article	IF	Citations
1	Construct validity of the Trail Making Test: Role of task-switching, working memory, inhibition/interference control, and visuomotor abilities. Journal of the International Neuropsychological Society, 2009, 15, 438-450.	1.2	949
2	Prefrontal modulation of visual processing in humans. Nature Neuroscience, 2000, 3, 399-403.	7.1	403
3	The Wisconsin Card Sorting Test and the cognitive assessment of prefrontal executive functions: A critical update. Brain and Cognition, 2009, 71, 437-451.	0.8	349
4	Both random and perseverative errors underlie WCST deficits in prefrontal patients. Neuropsychologia, 2002, 40, 349-356.	0.7	245
5	Think differently: a brain orienting response to task novelty. NeuroReport, 2002, 13, 1887-1892.	0.6	241
6	Task Switching and Novelty Processing Activate a Common Neural Network for Cognitive Control. Journal of Cognitive Neuroscience, 2006, 18, 1734-1748.	1.1	221
7	Trail Making Test in traumatic brain injury, schizophrenia, and normal ageing: Sample comparisons and normative data. Archives of Clinical Neuropsychology, 2007, 22, 433-447.	0.3	158
8	Attentional set shifting modulates the target P3b Response in the Wisconsin card sorting test. Neuropsychologia, 2000, 38, 1342-1355.	0.7	155
9	Where is the bilingual advantage in task-switching?. Journal of Memory and Language, 2013, 69, 257-276.	1.1	122
10	Why are auditory novels distracting? Contrasting the roles of novelty, violation of expectation and stimulus change. Cognition, 2011, 119, 374-380.	1.1	111
11	Dynamic Neuroplasticity after Human Prefrontal Cortex Damage. Neuron, 2010, 68, 401-408.	3.8	106
12	The Madrid card sorting test (MCST): a task switching paradigm to study executive attention with event-related potentials. Brain Research Protocols, 2003, 11, 27-37.	1.7	102
13	The Wisconsin Card Sorting Test and the assessment of frontal function: A validation study with event-related potentials. Neuropsychologia, 1997, 35, 399-408.	0.7	86
14	Spatiotemporal brain dynamics during preparatory set shifting: MEG evidence. NeuroImage, 2004, 21, 687-695.	2.1	77
15	Contextually sensitive power changes across multiple frequency bands underpin cognitive control. NeuroImage, 2016, 132, 499-511.	2.1	75
16	Electrophysiological evidence of two different types of error in the Wisconsin Card Sorting Test. NeuroReport, 1999, 10, 1299-1303.	0.6	70
17	Updating sensory versus task representations during task-switching: Insights from cognitive brain potentials in humans. Neuropsychologia, 2009, 47, 1160-1172.	0.7	70
18	Individual differences in aging and cognitive control modulate the neural indexes of context updating and maintenance during task switching. Cortex, 2010, 46, 434-450.	1.1	70

#	Article	IF	Citations
19	A latent variable approach to executive control in healthy ageing. Brain and Cognition, 2012, 78, 284-299.	0.8	64
20	Decreased brain coordinated activity in autism spectrum disorders during executive tasks: Reduced long-range synchronization in the fronto-parietal networks. International Journal of Psychophysiology, 2009, 73, 341-349.	0.5	60
21	The role of the dopamine transporter DAT1 genotype on the neural correlates of cognitive flexibility. European Journal of Neuroscience, 2010, 31, 754-760.	1.2	58
22	An information theory account of late frontoparietal ERP positivities in cognitive control. Psychophysiology, 2018, 55, e12814.	1.2	54
23	An Information-Theoretical Approach to Contextual Processing in the Human Brain: Evidence from Prefrontal Lesions. Cerebral Cortex, 2007, 17, i51-i60.	1.6	53
24	Bilinguals Use Language-Control Brain Areas More Than Monolinguals to Perform Non-Linguistic Switching Tasks. PLoS ONE, 2013, 8, e73028.	1.1	53
25	An information theoretical approach to task-switching: evidence from cognitive brain potentials in humans. Frontiers in Human Neuroscience, 2007, 1, 13.	1.0	46
26	Temporal kinetics of prefrontal modulation of the extrastriate cortex during visual attention. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 609-617.	1.0	42
27	Non-frontal P3b-like activity evoked by the Wisconsin Card Sorting Test. NeuroReport, 1998, 9, 747-751.	0.6	35
28	<scp>EEG</scp> delta oscillations index inhibitory control of contextual novelty to both irrelevant distracters and relevant taskâ€switch cues. Psychophysiology, 2014, 51, 658-672.	1.2	33
29	Dynamic low frequency EEG phase synchronization patterns during proactive control of task switching. NeuroImage, 2019, 186, 70-82.	2.1	33
30	Functional Dissociation of Latency-Variable, Stimulus- and Response-Locked Target P3 Sub-components in Task-Switching. Frontiers in Human Neuroscience, 2018, 12, 60.	1.0	32
31	Does the Wisconsin Card Sorting Test Measure Prefontral Function?. Spanish Journal of Psychology, 2001, 4, 79-100.	1.1	30
32	Event-related potentials during memorization of spatial locations in the auditory and visual modalities. Electroencephalography and Clinical Neurophysiology, 1997, 103, 257-267.	0.3	27
33	COMT and ANKK1 geneâ€“gene interaction modulates contextual updating of mental representations. NeuroImage, 2011, 56, 1641-1647.	2.1	26
34	Multisubject Decomposition of Event-related Positivities in Cognitive Control: Tackling Age-related Changes in Reactive Control. Brain Topography, 2018, 31, 17-34.	0.8	24
35	The Effects of Foreknowledge and Task-Set Shifting as Mirrored in Cue- and Target-Locked Event-Related Potentials. PLoS ONE, 2012, 7, e49486.	1.1	20
36	The time course of the asymmetrical â€œlocalâ€•switch cost: Evidence from event-related potentials. Biological Psychology, 2011, 86, 210-218.	1.1	18

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37	A diffusion model analysis of developmental changes in childrenâ€™s task switching. Journal of Experimental Child Psychology, 2014, 126, 178-197.	0.7	18
38	Impaired preparatory re-mapping of stimulusâ€“response associations and rule-implementation in schizophrenic patientsâ€”The role for differences in early processing. Biological Psychology, 2011, 87, 358-365.	1.1	15
39	A Predictive Processing Account of Card Sorting: Fast Proactive and Reactive Frontoparietal Cortical Dynamics during Inference and Learning of Perceptual Categories. Journal of Cognitive Neuroscience, 2021, 33, 1636-1656.	1.1	12
40	Quantifying Contextual Information For Cognitive Control. Frontiers in Psychology, 2018, 9, 1693.	1.1	11
41	Fast Neural Dynamics of Proactive Cognitive Control in a Task-Switching Analogue of the Wisconsin Card Sorting Test. Brain Topography, 2018, 31, 407-418.	0.8	10
42	Electrophysiological measures of cognition in biological psychiatry: some cautionary notes. International Journal of Neuroscience, 1997, 92, 219-240.	0.8	9
43	The role of DAT1 gene on the rapid detection of task novelty. Neuropsychologia, 2010, 48, 4136-4141.	0.7	9
44	Sources and topography of supramodal effects of spatial attention in ERP. Brain Topography, 1997, 10, 9-22.	0.8	7
45	Fast fronto-parietal cortical dynamics of conflict detection and context updating in a flanker task. Cognitive Neurodynamics, 2020, 14, 795-814.	2.3	7
46	A psychophysiological inquiry into the nature of the Sokolovian orienting response comparator model: skin conductance and EEG data. Biological Psychology, 1995, 41, 147-166.	1.1	3
47	The emotional consequences of being distracted. Frontiers in Neuroscience, 2009, 3, 6-7.	1.4	2
48	Theoretical sequelae of a chronic neglect and unawareness of prefrontotectal pathways in the human brain. Behavioral and Brain Sciences, 2007, 30, 83-85.	0.4	1
49	Tidying up sensory stores with supraordinate representations. Behavioral and Brain Sciences, 2003, 26, 730-731.	0.4	0
50	A taxonomy of fronto-parietal P3-like positivities based on information theoretic models of cognitive control. International Journal of Psychophysiology, 2016, 108, 53-54.	0.5	0