

Manuela Piazza

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

9,698
citations

159585

30
h-index

182427

51
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63
all docs

63
docs citations

63
times ranked

4595
citing authors

#	ARTICLE	IF	CITATIONS
1	THREE PARIETAL CIRCUITS FOR NUMBER PROCESSING. <i>Cognitive Neuropsychology</i> , 2003, 20, 487-506.	1.1	2,143
2	Interactions between number and space in parietal cortex. <i>Nature Reviews Neuroscience</i> , 2005, 6, 435-448.	10.2	1,180
3	Tuning Curves for Approximate Numerosity in the Human Intraparietal Sulcus. <i>Neuron</i> , 2004, 44, 547-555.	8.1	1,032
4	A Magnitude Code Common to Numerosities and Number Symbols in Human Intraparietal Cortex. <i>Neuron</i> , 2007, 53, 293-305.	8.1	782
5	Distributed and Overlapping Cerebral Representations of Number, Size, and Luminance during Comparative Judgments. <i>Neuron</i> , 2004, 41, 983-993.	8.1	666
6	Developmental trajectory of number acuity reveals a severe impairment in developmental dyscalculia. <i>Cognition</i> , 2010, 116, 33-41.	2.2	634
7	Neurocognitive start-up tools for symbolic number representations. <i>Trends in Cognitive Sciences</i> , 2010, 14, 542-551.	7.8	388
8	Are Subitizing and Counting Implemented as Separate or Functionally Overlapping Processes?. <i>NeuroImage</i> , 2002, 15, 435-446.	4.2	293
9	Exact and approximate judgements of visual and auditory numerosity: An fMRI study. <i>Brain Research</i> , 2006, 1106, 177-188.	2.2	248
10	Education Enhances the Acuity of the Nonverbal Approximate Number System. <i>Psychological Science</i> , 2013, 24, 1037-1043.	3.3	238
11	Does Subitizing Reflect Numerical Estimation?. <i>Psychological Science</i> , 2008, 19, 607-614.	3.3	237
12	Numerical estimation in preschoolers.. <i>Developmental Psychology</i> , 2010, 46, 545-551.	1.6	211
13	Subitizing reflects visuo-spatial object individuation capacity. <i>Cognition</i> , 2011, 121, 147-153.	2.2	159
14	How Humans Count: Numerosity and the Parietal Cortex. <i>Neuroscientist</i> , 2009, 15, 261-273.	3.5	120
15	Single-trial classification of parallel pre-attentive and serial attentive processes using functional magnetic resonance imaging. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1237-1245.	2.6	113
16	Cortical route for facelike pattern processing in human newborns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4625-4630.	7.1	112
17	Neural mechanisms of attentional shifts due to irrelevant spatial and numerical cues. <i>Neuropsychologia</i> , 2009, 47, 2615-2624.	1.6	78
18	Neural foundations and functional specificity of number representations. <i>Neuropsychologia</i> , 2016, 83, 257-273.	1.6	70

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19	The Role of Attentional Priority and Saliency in Determining Capacity Limits in Enumeration and Visual Working Memory. PLoS ONE, 2011, 6, e29296.	2.5	70
20	A Shared, Flexible Neural Map Architecture Reflects Capacity Limits in Both Visual Short-Term Memory and Enumeration. Journal of Neuroscience, 2014, 34, 9857-9866.	3.6	66
21	Word meaning in the ventral visual path: a perceptual to conceptual gradient of semantic coding. NeuroImage, 2016, 143, 128-140.	4.2	62
22	Distance and Direction Codes Underlie Navigation of a Novel Semantic Space in the Human Brain. Journal of Neuroscience, 2020, 40, 2727-2736.	3.6	54
23	Attentional amplification of neural codes for number independent of other quantities along the dorsal visual stream. ELife, 2019, 8, .	6.0	52
24	What information is critical to elicit interference in number-form synaesthesia?. Cortex, 2009, 45, 1200-1216.	2.4	50
25	Mathematical difficulties in developmental coordination disorder: Symbolic and nonsymbolic number processing. Research in Developmental Disabilities, 2015, 43-44, 167-178.	2.2	48
26	Verbal numerosity estimation deficit in the context of spared semantic representation of numbers: A neuropsychological study of a patient with frontal lesions. Neuropsychologia, 2008, 46, 2463-2475.	1.6	41
27	Learning to focus on number. Cognition, 2018, 181, 35-45.	2.2	40
28	Objective correlates of an unusual subjective experience: A single-case study of number-form synaesthesia. Cognitive Neuropsychology, 2006, 23, 1162-1173.	1.1	38
29	Contribution of motor representations to action verb processing. Cognition, 2015, 134, 174-184.	2.2	38
30	Discriminability of numerosity-evoked fMRI activity patterns in human intra-parietal cortex reflects behavioral numerical acuity. Cortex, 2019, 114, 90-101.	2.4	37
31	Finger Tracking Reveals the Covert Stages of Mental Arithmetic. Open Mind, 2017, 1, 30-41.	1.7	36
32	The neuro-cognitive representations of symbols: the case of concrete words. Neuropsychologia, 2017, 105, 4-17.	1.6	36
33	Processing number and length in the parietal cortex: Sharing resources, not a common code. Cortex, 2019, 114, 17-27.	2.4	34
34	Neurocognitive Start-Up Tools for Symbolic Number Representations. , 2011, , 267-285.		30
35	Objects, numbers, fingers, space: clustering of ventral and dorsal functions in young children and adults. Developmental Science, 2013, 16, 377-393.	2.4	27
36	Asymmetrical interference between number and item size perception provides evidence for a domain specific impairment in dyscalculia. PLoS ONE, 2018, 13, e0209256.	2.5	26

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37	Numerical abilities of school-age children with Developmental Coordination Disorder (DCD): A behavioral and eye-tracking study. <i>Human Movement Science</i> , 2017, 55, 315-326.	1.4	25
38	Grid-like and distance codes for representing word meaning in the human brain. <i>NeuroImage</i> , 2021, 232, 117876.	4.2	24
39	Decoding the processing stages of mental arithmetic with magnetoencephalography. <i>Cortex</i> , 2019, 114, 124-139.	2.4	23
40	Individual Brain Charting dataset extension, second release of high-resolution fMRI data for cognitive mapping. <i>Scientific Data</i> , 2020, 7, 353.	5.3	21
41	Impaired large numerosity estimation and intact subitizing in developmental dyscalculia. <i>PLoS ONE</i> , 2020, 15, e0244578.	2.5	18
42	Numerical and Spatial Intuitions: A Role for Posterior Parietal Cortex?. , 2009, , 221-246.		17
43	Probing the mental representation of quantifiers. <i>Cognition</i> , 2018, 181, 117-126.	2.2	14
44	Learning disabilities: Developmental dyscalculia. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2020, 174, 61-75.	1.8	13
45	Symbolic categorization of novel multisensory stimuli in the human brain. <i>NeuroImage</i> , 2021, 235, 118016.	4.2	13
46	Infants's use of motion cues in object individuation processes. <i>Journal of Experimental Child Psychology</i> , 2020, 197, 104868.	1.4	8
47	Excessive visual crowding effects in developmental dyscalculia. <i>Journal of Vision</i> , 2020, 20, 7.	0.3	6
48	Mind, brain, and teaching: Some directions for future research. <i>Behavioral and Brain Sciences</i> , 2015, 38, e54.	0.7	5
49	Conceptual and Perceptual Dimensions of Word Meaning Are Recovered Rapidly and in Parallel during Reading. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 95-108.	2.3	5
50	The hippocampal-entorhinal system represents nested hierarchical relations between words during concept learning. <i>Hippocampus</i> , 2021, 31, 557-568.	1.9	5
51	Testing the role of symbols in preschool numeracy: An experimental computer-based intervention study. <i>PLoS ONE</i> , 2021, 16, e0259775.	2.5	4
52	The neural representation of absolute direction during mental navigation in conceptual spaces. <i>Communications Biology</i> , 2021, 4, 1294.	4.4	4
53	Comparing magnitudes across dimensions: a univariate and multivariate approach. , 2016, , .		1
54	Resources Underlying Visuo-Spatial Working Memory Enable Veridical Large Numerosity Perception. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 751098.	2.0	1

#	ARTICLE	IF	CITATIONS
55	What is an (abstract) neural representation of quantity?. Behavioral and Brain Sciences, 2009, 32, 348-349.	0.7	0
56	A perceptual-to-conceptual gradient of word coding along the ventral path. , 2014, , .		0