

# Roberto Arrighi

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,363  
citations

361413

20  
h-index

377865

34  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Encoding of Interval Timing in Expert Percussionists. <i>Journal of Neuroscience</i> , 2012, 32, 1056-1060.	3.6	235
2	A generalized sense of number. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141791.	2.6	100
3	Perceptual synchrony of audiovisual streams for natural and artificial motion sequences. <i>Journal of Vision</i> , 2006, 6, 6.	0.3	73
4	Blood Oxygen Level-Dependent Activation of the Primary Visual Cortex Predicts Size Adaptation Illusion. <i>Journal of Neuroscience</i> , 2013, 33, 15999-16008.	3.6	73
5	Psychophysical evidence for the number sense. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170045.	4.0	70
6	Vision and Audition Do Not Share Attentional Resources in Sustained Tasks. <i>Frontiers in Psychology</i> , 2011, 2, 56.	2.1	55
7	A shared numerical representation for action and perception. <i>ELife</i> , 2016, 5, .	6.0	52
8	Spatial but not temporal numerosity thresholds correlate with formal math skills in children.. <i>Developmental Psychology</i> , 2018, 54, 458-473.	1.6	48
9	Spatiotopic selectivity of adaptation-based compression of event duration. <i>Journal of Vision</i> , 2011, 11, 21-21.	0.3	47
10	A Sensorimotor Numerosity System. <i>Trends in Cognitive Sciences</i> , 2021, 25, 24-36.	7.8	46
11	Motion perception in preterm children: role of prematurity and brain damage. <i>NeuroReport</i> , 2009, 20, 1339-1343.	1.2	45
12	Meaningful auditory information enhances perception of visual biological motion. <i>Journal of Vision</i> , 2009, 9, 25-25.	0.3	40
13	Blindsight in children with congenital and acquired cerebral lesions. <i>Cortex</i> , 2013, 49, 1636-1647.	2.4	36
14	Simultaneous and sequential subitizing are separate systems, and neither predicts math abilities. <i>Journal of Experimental Child Psychology</i> , 2019, 178, 86-103.	1.4	34
15	Reduced perceptual sensitivity for biological motion in paraplegia patients. <i>Current Biology</i> , 2011, 21, R910-R911.	3.9	32
16	Distortions of visual time induced by motor adaptation.. <i>Journal of Experimental Psychology: General</i> , 2020, 149, 1333-1343.	2.1	28
17	“Groupitizing” a strategy for numerosity estimation. <i>Scientific Reports</i> , 2020, 10, 13436.	3.3	27
18	Grouping strategies in number estimation extend the subitizing range. <i>Scientific Reports</i> , 2020, 10, 14979.	3.3	25

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19	Neural latencies do not explain the auditory and audio-visual flash-lag effect. <i>Vision Research</i> , 2005, 45, 2917-2925.	1.4	24
20	Contour interactions between pairs of Gabors engaged in binocular rivalry reveal a map of the association field. <i>Vision Research</i> , 2006, 46, 1473-1487.	1.4	24
21	Plasticity of the human visual brain after an early cortical lesion. <i>Neuropsychologia</i> , 2019, 128, 166-177.	1.6	23
22	Adaptation-Induced Compression of Event Time Occurs Only for Translational Motion. <i>Scientific Reports</i> , 2016, 6, 23341.	3.3	20
23	The shared numerical representation for action and perception develops independently from vision. <i>Cortex</i> , 2020, 129, 436-445.	2.4	19
24	Math Anxiety Mediates the Link Between Number Sense and Math Achievements in High Math Anxiety Young Adults. <i>Frontiers in Psychology</i> , 2020, 11, 1095.	2.1	17
25	Contrast Reduction and Reading: Assessment and Reliability with the Reading Explorer Test. <i>European Journal of Ophthalmology</i> , 2010, 20, 389-396.	1.3	16
26	Adaptation to hand-tapping affects sensory processing of numerosity directly: evidence from reaction times and confidence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200801.	2.6	15
27	Groupitizing modifies neural coding of numerosity. <i>Human Brain Mapping</i> , 2022, 43, 915-928.	3.6	12
28	Motion-induced compression of perceived numerosity. <i>Scientific Reports</i> , 2018, 8, 6966.	3.3	11
29	Tactile numerosity is coded in external space. <i>Cortex</i> , 2021, 134, 43-51.	2.4	11
30	Evidence for an A-Modal Number Sense: Numerosity Adaptation Generalizes Across Visual, Auditory, and Tactile Stimuli. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 713565.	2.0	10
31	Groupitizing Improves Estimation of Numerosity of Auditory Sequences. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 687321.	2.0	9
32	Numerosity adaptation partly depends on the allocation of implicit numerosity-contingent visuo-spatial attention. <i>Journal of Vision</i> , 2021, 21, 12.	0.3	9
33	Adaptation to the Speed of Biological Motion in Autism. <i>Journal of Autism and Developmental Disorders</i> , 2020, 50, 373-385.	2.7	8
34	Numerosity perception is tuned to salient environmental features. <i>IScience</i> , 2022, 25, 104104.	4.1	8
35	Perceived timing of first- and second-order changes in vision and hearing. <i>Experimental Brain Research</i> , 2005, 166, 445-454.	1.5	7
36	Motor adaptation distorts visual space. <i>Vision Research</i> , 2020, 171, 31-35.	1.4	7

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37	Implicit visuospatial attention shapes numerosity adaptation and perception. <i>Journal of Vision</i> , 2021, 21, 26.	0.3	6
38	Visual Duration but Not Numerosity Is Distorted While Running. <i>Brain Sciences</i> , 2022, 12, 81.	2.3	6
39	Cueing the interpretation of a Necker Cube: a way to inspect fundamental cognitive processes. <i>Cognitive Processing</i> , 2009, 10, 95-99.	1.4	4
40	The Role of Temporal and Spatial Attention in Size Adaptation. <i>Frontiers in Neuroscience</i> , 2020, 14, 539.	2.8	4
41	Unimpaired groupitizing in children and adolescents with dyscalculia. <i>Scientific Reports</i> , 2022, 12, 5629.	3.3	4
42	Uncertainty and Prior Assumptions, Rather Than Innate Logarithmic Encoding, Explain Nonlinear Number-to-Space Mapping. <i>Psychological Science</i> , 2022, 33, 121-134.	3.3	4
43	A Predictive Pedestrian Crash Model Based on Artificial Intelligence Techniques. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11364.	2.5	3
44	Deprivation of Auditory Experience Influences Numerosity Discrimination, but Not Numerosity Estimation. <i>Brain Sciences</i> , 2022, 12, 179.	2.3	3
45	Mathematics and Numerosity but Not Visuo-Spatial Working Memory Correlate with Mathematical Anxiety in Adults. <i>Brain Sciences</i> , 2022, 12, 422.	2.3	3
46	Time and numerosity estimation in peripersonal and extrapersonal space. <i>Acta Psychologica</i> , 2021, 215, 103296.	1.5	2
47	Motor adaptation affects perception of time and numerosity. <i>Journal of Vision</i> , 2019, 19, 164b.	0.3	2
48	Numbers in action. <i>Behavioral and Brain Sciences</i> , 2021, 44, e185.	0.7	2
49	Introduction to the Special Issue on Multimodality of Early Sensory Processing: Early Visual Maps Flexibly Encode Multimodal Space. <i>Multisensory Research</i> , 2015, 28, 249-252.	1.1	1
50	Perception of geometric sequences and numerosity both predict formal geometric competence in primary school children. <i>Scientific Reports</i> , 2021, 11, 14243.	3.3	1
51	Audio-visual recalibration is spatially specific, in external coordinates. <i>Seeing and Perceiving</i> , 2012, 25, 132.	0.3	0
52	Psychophysical evidence for a generalized sense of number. <i>Multisensory Research</i> , 2013, 26, 63.	1.1	0
53	A generalized sense of number for perception and action. <i>Journal of Vision</i> , 2017, 17, 593.	0.3	0
54	Adaptation to hand-tapping affects directly sensory processing of numerosity. <i>Journal of Vision</i> , 2020, 20, 1036.	0.3	0

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55	Editorial: The Functional and Neural Mechanisms of Numerosity Processing: From Perception to Cognition. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 880645.	2.0	0