Stephan E Vogel

List of Publications by Year
in descending order

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38 papers	1,076 citations	471509 17 h-index	414414 32 g-index
45 all docs	45 docs citations	45 times ranked	824 citing authors

#	Article	IF	Citations
1	Fact retrieval or compacted counting in arithmeticâ€"A neurophysiological investigation of two hypotheses.. Journal of Experimental Psychology: Learning Memory and Cognition, 2022, 48, 199-212.	0.9	8
2	Believing in Neuromyths Makes Neither a Bad Nor Good Studentâ€Teacher: The Relationship between Neuromyths and Academic Achievement in Teacher Education. Mind, Brain, and Education, 2021, 15, 54-60.	1.9	15
3	Mathematical Creativity in Adults: Its Measurement and Its Relation to Intelligence, Mathematical Competence and General Creativity. Journal of Intelligence, 2021, 9, 10.	2.5	10
4	Revisiting the Role of Worries in Explaining the Link Between Test Anxiety and Test Performance. Educational Psychology Review, 2021, 33, 1887-1906.	8.4	14
5	Quantitative and Qualitative Differences in the Canonical and the Reverse Distance Effect and Their Selective Association With Arithmetic and Mathematical Competencies. Frontiers in Education, 2021, 6, .	2.1	8
6	Developmental brain dynamics of numerical and arithmetic abilities. Npj Science of Learning, 2021, 6, 22.	2.8	19
7	Can the interference effect in multiplication fact retrieval be modulated by an arithmetic training? An fMRI study. Neuropsychologia, 2021, 157, 107849.	1.6	1
8	Interference between naÃ¯ve and scientific theories occurs in mathematics and is related to mathematical achievement. Cognition, 2021, 214, 104789.	2.2	5
9	Early neurocognitive development of dyscalculia. , 2021, , 359-382.		4
10	Common and distinct predictors of non-symbolic and symbolic ordinal number processing across the early primary school years. PLoS ONE, 2021, 16, e0258847.	2.5	6
11	Theta Band Transcranial Alternating Current Stimulation Enhances Arithmetic Learning: A Systematic Comparison of Different Direct and Alternating Current Stimulations. Neuroscience, 2021, 477, 89-105.	2.3	5
12	Oscillatory electroencephalographic patterns of arithmetic problem solving in fourth graders. Scientific Reports, 2021, 11, 23278.	3.3	4
13	The semantic control network mediates the relationship between symbolic numerical order processing and arithmetic performance in children. Neuropsychologia, 2020, 141, 107405.	1.6	19
14	A comes before B, like 1 comes before 2. Is the parietal cortex sensitive to ordinal relationships in both numbers and letters? An fMRIâ€adaptation study. Human Brain Mapping, 2020, 41, 1591-1610.	3.6	10
15	Associations Between Individual Differences in Mathematical Competencies and Surface Anatomy of the Adult Brain. Frontiers in Human Neuroscience, 2020, 14, 116.	2.0	5
16	Interference during the retrieval of arithmetic and lexico-semantic knowledge modulates similar brain regions: Evidence from functional magnetic resonance imaging (fMRI). Cortex, 2019, 120, 375-393.	2.4	13
17	The neural substrates of the problem size and interference effect in childrenâ€™s multiplication: An fMRI study. Brain Research, 2019, 1714, 147-157.	2.2	5
18	Automatic and intentional processing of numerical order and its relationship to arithmetic performance. Acta Psychologica, 2019, 193, 30-41.	1.5	24

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19	Interference and problem size effect in multiplication fact solving: Individual differences in brain activations and arithmetic performance. NeuroImage, 2018, 172, 718-727.	4.2	22
20	Math anxiety, intelligence, and performance in mathematics: Insights from the German adaptation of the Abbreviated Math Anxiety Scale (AMAS-G). Learning and Individual Differences, 2018, 61, 109-119.	2.7	42
21	The left intraparietal sulcus adapts to symbolic number in both the visual and auditory modalities: Evidence from fMRI. NeuroImage, 2017, 153, 16-27.	4.2	28
22	The effect of visual parameters on neural activation during nonsymbolic number comparison and its relation to math competency. NeuroImage, 2017, 159, 430-442.	4.2	18
23	Corrigendum to â€œOverlapping and distinct brain regions involved in estimating the spatial position of numerical and non-numerical magnitudes: An fMRI studyâ€•[Neuropsychologia 51 (2013) 979â€“989]. Neuropsychologia, 2017, 94, 139.	1.6	0
24	Processing the order of symbolic numbers: A reliable and unique predictor of arithmetic fluency. Journal of Numerical Cognition, 2017, 3, 288-308.	1.2	36
25	The neural correlates of health risk perception in individuals with low and high numeracy. ZDM - International Journal on Mathematics Education, 2016, 48, 337-350.	2.2	9
26	On the ordinality of numbers. Progress in Brain Research, 2016, 227, 187-221.	1.4	53
27	Asymmetric Processing of Numerical and Nonnumerical Magnitudes in the Brain: An fMRI Study. Journal of Cognitive Neuroscience, 2016, 28, 166-176.	2.3	54
28	Facets of the Mathematical Brainâ€”From Number Processing to Mathematical Problem Solving. Mind, Brain, and Education, 2015, 9, 187-189.	1.9	3
29	Developmental specialization of the left parietal cortex for the semantic representation of Arabic numerals: An fMR-adaptation study. Developmental Cognitive Neuroscience, 2015, 12, 61-73.	4.0	67
30	Differential processing of symbolic numerical magnitude and order in first-grade children. Journal of Experimental Child Psychology, 2015, 129, 26-39.	1.4	51
31	Overlapping and distinct brain regions involved in estimating the spatial position of numerical and non-numerical magnitudes: An fMRI study. Neuropsychologia, 2013, 51, 979-989.	1.6	44
32	Semantic and Perceptual Processing of Number Symbols: Evidence from a Cross-linguistic fMRI Adaptation Study. Journal of Cognitive Neuroscience, 2013, 25, 388-400.	2.3	67
33	Cognitive Neuroscience of Numerical Cognition. , 2013, , .		0
34	Numerical and non-numerical ordinality processing in children with and without developmental dyscalculia: Evidence from fMRI. Cognitive Development, 2009, 24, 486-494.	1.3	117
35	Developmental dyscalculia: Compensatory mechanisms in left intraparietal regions in response to nonsymbolic magnitudes. Behavioral and Brain Functions, 2009, 5, 35.	3.3	75
36	A developmental fMRI study of nonsymbolic numerical and spatial processing. Cortex, 2008, 44, 376-385.	2.4	116

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37	An fMRI study of the numerical Stroop task in individuals with and without minimal cognitive impairment. Cortex, 2008, 44, 1248-1255.	2.4	61
38	How Much Is 2 Ã— 4? Understanding How the Brain Solves Arithmetic Problems. Frontiers for Young Minds, 0, 8, .	0.8	1