

Martin H Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

7,391
citations

61984

43
h-index

58581

82
g-index

143
all docs

143
docs citations

143
times ranked

3651
citing authors

#	ARTICLE	IF	CITATIONS
1	Embodied Language: A Review of the Role of the Motor System in Language Comprehension. <i>Quarterly Journal of Experimental Psychology</i> , 2008, 61, 825-850.	1.1	680
2	Perceiving numbers causes spatial shifts of attention. <i>Nature Neuroscience</i> , 2003, 6, 555-556.	14.8	555
3	Reading habits for both words and numbers contribute to the SNARC effect. <i>Psychonomic Bulletin and Review</i> , 2009, 16, 328-331.	2.8	357
4	Unspaced text interferes with both word identification and eye movement control. <i>Vision Research</i> , 1998, 38, 1129-1144.	1.4	289
5	Mindless reading revisited: Eye movements during reading and scanning are different. <i>Perception & Psychophysics</i> , 1996, 58, 734-747.	2.3	224
6	Finger counting habits modulate spatial-numerical associations. <i>Cortex</i> , 2008, 44, 386-392.	2.4	211
7	Reading space into numbers – a cross-linguistic comparison of the SNARC effect. <i>Cognition</i> , 2008, 108, 590-599.	2.2	199
8	When Digits Help Digits: Spatial?Numerical Associations Point to Finger Counting as Prime Example of Embodied Cognition. <i>Frontiers in Psychology</i> , 2011, 2, 260.	2.1	197
9	Spatial Associations in Numerical Cognition – From Single Digits to Arithmetic. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1461-1483.	1.1	183
10	Mental movements without magnitude? A study of spatial biases in symbolic arithmetic. <i>Cognition</i> , 2008, 109, 408-415.	2.2	174
11	Spatial representations in number processing – evidence from a pointing task. <i>Visual Cognition</i> , 2003, 10, 493-508.	1.6	148
12	A hierarchical view of grounded, embodied, and situated numerical cognition. <i>Cognitive Processing</i> , 2012, 13, 161-164.	1.4	139
13	You can count on the motor cortex: Finger counting habits modulate motor cortex activation evoked by numbers. <i>NeuroImage</i> , 2012, 59, 3139-3148.	4.2	134
14	How to cook a SNARC: Number placement in text rapidly changes spatial – numerical associations. <i>Brain and Cognition</i> , 2010, 72, 333-336.	1.8	126
15	Oculomotor Bias Induced by Number Perception. <i>Experimental Psychology</i> , 2004, 51, 91-97.	0.7	120
16	The Mechanics of Embodiment: A Dialog on Embodiment and Computational Modeling. <i>Frontiers in Psychology</i> , 2011, 2, 5.	2.1	114
17	Computational Grounded Cognition: a new alliance between grounded cognition and computational modeling. <i>Frontiers in Psychology</i> , 2012, 3, 612.	2.1	108
18	Mental number space in three dimensions. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 57, 209-219.	6.1	106

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19	Finger Counting Habits in Middle Eastern and Western Individuals: An Online Survey. <i>Journal of Cross-Cultural Psychology</i> , 2011, 42, 566-578.	1.6	104
20	Direction counts: A comparative study of spatially directional counting biases in cultures with different reading directions. <i>Journal of Experimental Child Psychology</i> , 2012, 112, 275-281.	1.4	102
21	Extending the Mental Number Line. <i>Zeitschrift Fur Psychologie / Journal of Psychology</i> , 2011, 219, 3-22.	1.0	94
22	Cognitive Representation of Negative Numbers. <i>Psychological Science</i> , 2003, 14, 278-282.	3.3	93
23	The Future for Snarc Could Be Starkâ€¦. <i>Cortex</i> , 2006, 42, 1066-1068.	2.4	84
24	Probing Spatial Working Memory with the Corsi Blocks Task. <i>Brain and Cognition</i> , 2001, 45, 143-154.	1.8	82
25	Different clues from different views: The role of image format in public perceptions of neuroimaging results. <i>Psychonomic Bulletin and Review</i> , 2011, 18, 422-428.	2.8	82
26	It Takes Just One Word to Quash a SNARC. <i>Experimental Psychology</i> , 2009, 56, 361-366.	0.7	76
27	Deconstructing spatial-numerical associations. <i>Cognition</i> , 2018, 175, 109-113.	2.2	67
28	Spatial biases during mental arithmetic: evidence from eye movements on a blank screen. <i>Frontiers in Psychology</i> , 2015, 6, 12.	2.1	66
29	Estimating reachability: Whole body engagement or postural stability?. <i>Human Movement Science</i> , 2000, 19, 297-318.	1.4	65
30	Multiple spatial mappings in numerical cognition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2012, 38, 804-809.	0.9	65
31	Pupillometry: The Eyes Shed Fresh Light on the Mind. <i>Current Biology</i> , 2014, 24, R281-R282.	3.9	65
32	Random walks on the mental number line. <i>Experimental Brain Research</i> , 2014, 232, 43-49.	1.5	63
33	TEST: A Tropic, Embodied, and Situated Theory of Cognition. <i>Topics in Cognitive Science</i> , 2014, 6, 442-460.	1.9	61
34	How sensitive is hand transport to illusory context effects?. <i>Experimental Brain Research</i> , 2001, 136, 224-230.	1.5	60
35	Distractor effects on pointing: the role of spatial layout. <i>Experimental Brain Research</i> , 2001, 136, 507-513.	1.5	59
36	Sequential or parallel decomposed processing of two-digit numbers? Evidence from eye-tracking. <i>Quarterly Journal of Experimental Psychology</i> , 2009, 62, 323-334.	1.1	59

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37	Heed the Signs: Operation Signs have Spatial Associations. Quarterly Journal of Experimental Psychology, 2014, 67, 1527-1540.	1.1	59
38	Predicting the actions of others taps into one's own somatosensory representationsâ€”A functional MRI study. Neuropsychologia, 2007, 45, 2480-2491.	1.6	58
39	Is Handwriting Performance Affected by the Writing Surface? Comparing Preschoolers', Second Graders', and Adults' Writing Performance on a Tablet vs. Paper. Frontiers in Psychology, 2016, 7, 1308.	2.1	50
40	Aspects of situated cognition in embodied numerosity: the case of finger counting. Cognitive Processing, 2014, 15, 317-328.	1.4	48
41	Number concepts: abstract and embodied. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170125.	4.0	48
42	Numbers, space, and action â€” From finger counting to the mental number line and beyond. Cortex, 2008, 44, 353-358.	2.4	45
43	Pushing forward in embodied cognition: may we mouse the mathematical mind?. Frontiers in Psychology, 2014, 5, 1315.	2.1	45
44	Grasp Cueing shows Obligatory Attention to Action Goals. Quarterly Journal of Experimental Psychology, 2008, 61, 860-868.	1.1	44
45	Less Attention and More Perception in Cued Line Bisection. Brain and Cognition, 1994, 25, 24-33.	1.8	43
46	Cognition in the bisection task. Trends in Cognitive Sciences, 2001, 5, 460-462.	7.8	42
47	Counting is a spatial process: evidence from eye movements. Psychological Research, 2016, 80, 399-409.	1.7	42
48	Listening to Limericks: A Pupillometry Investigation of Perceiversâ€™ Expectancy. PLoS ONE, 2013, 8, e74986.	2.5	37
49	Inhibition of return and manual pointing movements. Perception & Psychophysics, 2003, 65, 379-387.	2.3	36
50	Observation of directional storybook reading influences young childrenâ€™s counting direction. Journal of Experimental Child Psychology, 2018, 166, 49-66.	1.4	36
51	Ocular drift along the mental number line. Psychological Research, 2016, 80, 379-388.	1.7	35
52	Adapting to the surface: A comparison of handwriting measures when writing on a tablet computer and on paper. Human Movement Science, 2016, 48, 62-73.	1.4	33
53	Measuring spatialâ€”numerical associations: evidence for a purely conceptual link. Psychological Research, 2016, 80, 109-112.	1.7	32
54	The Development of Arabic Digit Knowledge in 4- to 7-Year-Old Children. Journal of Numerical Cognition, 2015, 1, 21-37.	1.2	32

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55	Visual and linguistic cues to graspable objects. <i>Experimental Brain Research</i> , 2013, 229, 545-559.	1.5	31
56	The inversion effect on gaze perception reflects processing of component information. <i>Experimental Brain Research</i> , 2005, 167, 49-55.	1.5	30
57	Readers'™ responses to sub-genre and rhyme scheme in poetry. <i>Poetics</i> , 2006, 34, 204-218.	1.3	30
58	Bisection performance indicates spatial word representation. <i>Cognitive Brain Research</i> , 1996, 4, 163-170.	3.0	29
59	The time course of visuo-motor affordances. <i>Experimental Brain Research</i> , 2007, 176, 519-524.	1.5	29
60	Pointing to numbers and grasping magnitudes. <i>Experimental Brain Research</i> , 2009, 192, 149-153.	1.5	29
61	Memory for Word Locations in Reading. <i>Memory</i> , 1999, 7, 79-116.	1.7	27
62	Finger posing primes number comprehension. <i>Cognitive Processing</i> , 2017, 18, 237-248.	1.4	27
63	Designing bar graphs: orientation matters. <i>Applied Cognitive Psychology</i> , 2005, 19, 953-962.	1.6	26
64	Perceived reachability: the roles of handedness and hemifield. <i>Experimental Brain Research</i> , 2005, 160, 283-289.	1.5	26
65	Visual layout modulates Fitts'™s law: The importance of first and last positions. <i>Psychonomic Bulletin and Review</i> , 2007, 14, 350-355.	2.8	26
66	Implicit spatial-numerical associations: Negative numbers and the role of counting direction.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2017, 43, 639-643.	0.9	25
67	Word Centre is Misperceived. <i>Perception</i> , 2000, 29, 337-354.	1.2	25
68	Space- and object-based attention depend on motor intention. <i>Journal of General Psychology</i> , 2004, 131, 365-77.	2.8	25
69	Cognitive Mechanisms Underlying Directional and Non-directional Spatial-Numerical Associations across the Lifespan. <i>Frontiers in Psychology</i> , 2017, 8, 1421.	2.1	24
70	Heuristics and biases in mental arithmetic: revisiting and reversing operational momentum. <i>Thinking and Reasoning</i> , 2018, 24, 138-156.	3.2	24
71	Singing Numbers'™ in Cognitive Space '™ A Dual'™Task Study of the Link Between Pitch, Space, and Numbers. <i>Topics in Cognitive Science</i> , 2013, 5, 354-366.	1.9	23
72	Fitts'™s Law violation and motor imagery: are imagined movements truthful or lawful?. <i>Experimental Brain Research</i> , 2010, 201, 607-611.	1.5	22

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73	Finger Counting and Numerical Cognition. <i>Frontiers in Psychology</i> , 2012, 3, 108.	2.1	22
74	Facial Feedback Affects Perceived Intensity but Not Quality of Emotional Expressions. <i>Brain Sciences</i> , 2015, 5, 357-368.	2.3	22
75	Development of spatial preferences for counting and picture naming. <i>Psychological Research</i> , 2015, 79, 939-949.	1.7	22
76	A biological foundation for spatial–numerical associations: the brain's asymmetric frequency tuning. <i>Annals of the New York Academy of Sciences</i> , 2020, 1477, 44-53.	3.8	22
77	Action simulation for others is not constrained by one's own postures. <i>Neuropsychologia</i> , 2005, 43, 28-34.	1.6	20
78	Attentional cueing in numerical cognition. <i>Frontiers in Psychology</i> , 2014, 5, 1381.	2.1	20
79	Selective reaching: evidence for multiple frames of reference. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002, 28, 515-26.	0.9	20
80	The oculomotor resonance effect in spatial–numerical mapping. <i>Acta Psychologica</i> , 2015, 161, 162-169.	1.5	19
81	Object affordance influences instruction span. <i>Experimental Brain Research</i> , 2012, 223, 199-206.	1.5	17
82	1 + 2 is more than 2 + 1: Violations of commutativity and identity axioms in mental arithmetic. <i>Journal of Cognitive Psychology</i> , 2015, 27, 471-477.	0.9	17
83	Embodied number processing. <i>Journal of Cognitive Psychology</i> , 2015, 27, 381-387.	0.9	17
84	Stimulating numbers: signatures of finger counting in numerosity processing. <i>Psychological Research</i> , 2020, 84, 152-167.	1.7	17
85	Can we correctly perceive the reaching range of others?. <i>British Journal of Psychology</i> , 2003, 94, 487-500.	2.3	15
86	Mental Number Representations in 2D Space. <i>Frontiers in Psychology</i> , 2019, 10, 172.	2.1	14
87	Newborn chicks need no number tricks. Commentary: Number-space mapping in the newborn chick resembles humans' mental number line. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 451.	2.0	13
88	How Body Orientation Affects Concepts of Space, Time and Valence: Functional Relevance of Integrating Sensorimotor Experiences during Word Processing. <i>PLoS ONE</i> , 2016, 11, e0165795.	2.5	13
89	Why Numbers Are Embodied Concepts. <i>Frontiers in Psychology</i> , 2017, 8, 2347.	2.1	13
90	Potentials of Virtual Reality as an Instrument for Research and Education. <i>I-com</i> , 2019, 18, 3-15.	1.3	12

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91	On the timing of reference frames for action control. <i>Experimental Brain Research</i> , 2007, 183, 127-132.	1.5	11
92	Asymmetric prefrontal cortex functions predict asymmetries in number space. <i>Brain and Cognition</i> , 2010, 74, 306-311.	1.8	11
93	Unusual Bodies, Uncommon Behaviors: Individual and Group Differences in Embodied Cognition in Spatial Tasks. <i>Spatial Cognition and Computation</i> , 2012, 12, 71-82.	1.2	11
94	Exploring the numerical mind by eye-tracking: a special issue. <i>Psychological Research</i> , 2016, 80, 325-333.	1.7	11
95	Removing spatial responses reveals spatial concepts—even in a culture with mixed reading habits. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 966.	2.0	10
96	Competing Biases in Mental Arithmetic: When Division Is More and Multiplication Is Less. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 37.	2.0	10
97	The Brain's Asymmetric Frequency Tuning: Asymmetric Behavior Originates from Asymmetric Perception. <i>Symmetry</i> , 2020, 12, 2083.	2.2	10
98	Spatial Biases in Mental Arithmetic. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1457-1460.	1.1	9
99	Moving arms: the effects of sensorimotor information on the problem-solving process. <i>Thinking and Reasoning</i> , 2019, 25, 171-191.	3.2	9
100	Two steps to space for numbers. <i>Frontiers in Psychology</i> , 2015, 6, 612.	2.1	8
101	Embodied Perspectives on Behavioral Cognitive Enhancement. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2019, 3, 144-160.	1.6	8
102	The Force of Numbers: Investigating Manual Signatures of Embodied Number Processing. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 590508.	2.0	8
103	Tactile Interaction with a Humanoid Robot: Effects on Physiology and Subjective Impressions. <i>International Journal of Social Robotics</i> , 2021, 13, 1657-1677.	4.6	8
104	Abstract concepts: external influences, internal constraints, and methodological issues. <i>Psychological Research</i> , 2022, 86, 2370-2388.	1.7	8
105	Mimicking non-verbal emotional expressions and empathy development in simulated consultations: An experimental feasibility study. <i>Patient Education and Counseling</i> , 2018, 101, 304-309.	2.2	7
106	A hierarchical view of abstractness: Grounded, embodied, and situated aspects. <i>Physics of Life Reviews</i> , 2019, 29, 161-163.	2.8	7
107	Multi-Digit Number Processing. <i>Zeitschrift Fur Psychologie / Journal of Psychology</i> , 2011, 219, 1-2.	1.0	7
108	Incidental Counting: Speeded Number Naming Through Finger Movements. <i>Journal of Cognition</i> , 2018, 1, 44.	1.4	7

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109	Non-abstractness as mental simulation in the representation of number. Behavioral and Brain Sciences, 2009, 32, 343-344.	0.7	6
110	Attention deployment during memorizing and executing complex instructions. Experimental Brain Research, 2011, 214, 249-259.	1.5	6
111	Cross-Representational Interactions: Interface and Overlap Mechanisms. Frontiers in Psychology, 2016, 07, 2028.	2.1	6
112	Language, Culture, and Space: Reconstructing Spatial-Numerical Associations. , 2018, , 257-274.		6
113	Nothing to dance about: unclear evidence for symbolic representations and numerical competence in honeybees. A Comment on: Symbolic representation of numerosity by honeybees (Apis mellifera): matching characters to small quantities. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192840.	2.6	6
114	The Unbearable Lightness of Attentional Cuing by Symbolic Magnitude: Commentary on the Registered Replication Report by Colling et al.. Advances in Methods and Practices in Psychological Science, 2020, 3, 163-165.	9.4	5
115	Commentary: A mental number line in human newborns. Frontiers in Human Neuroscience, 2020, 14, 99.	2.0	5
116	“BreathThink” breathing affects production and perception of quantities. Experimental Brain Research, 2021, 239, 2489-2499.	1.5	5
117	Grounding (fairly) complex numerical knowledge: an educational example. Psychological Research, 2022, 86, 2389-2397.	1.7	5
118	Effects of Hand Proximity and Movement Direction in Spatial and Temporal Gap Discrimination. Frontiers in Psychology, 2016, 7, 1930.	2.1	4
119	Commentary: The mental representation of integers: An abstract-to-concrete shift in the understanding of mathematical concepts. Frontiers in Psychology, 2018, 9, 209.	2.1	4
120	Systematic spatial distortion of quantitative estimates. Psychological Research, 2021, 85, 2177-2185.	1.7	4
121	Neuromuscular Diseases Affect Number Representation and Processing: An Exploratory Study. Frontiers in Psychology, 2021, 12, 697881.	2.1	4
122	Your neighbors define your value: A study of spatial bias in number comparison. Acta Psychologica, 2013, 142, 308-313.	1.5	3
123	The visual number world: A dynamic approach to study the mathematical mind. Quarterly Journal of Experimental Psychology, 2018, 71, 28-36.	1.1	3
124	Commentary: Robots As Intentional Agents: Using Neuroscientific Methods to Make Robots Appear More Social. Frontiers in Psychology, 2018, 9, 1131.	2.1	3
125	Idioms in the World: A Focus on Processing. Frontiers in Psychology, 2019, 10, 1155.	2.1	3
126	Commentary : The Developmental Trajectory of the Operational Momentum Effect. Frontiers in Psychology, 2018, 9, 2259.	2.1	2

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127	Reaching Out for Food: How Food Incentives Modulate Peripersonal Space Perception. <i>Journal of Cognition</i> , 2021, 4, 21.	1.4	2
128	More Instructions Make Fewer Subtractions. <i>Frontiers in Psychology</i> , 2021, 12, 720616.	2.1	2
129	Assessing orienting of attention to understand the time course of mental calculation. <i>Cognitive Processing</i> , 2020, 21, 493-500.	1.4	1
130	Heuristics and biases in the mental manipulation of magnitudes: Evidence from length and time production. <i>Quarterly Journal of Experimental Psychology</i> , 2021, 74, 536-547.	1.1	1
131	Turn the beat around: Commentary on "Slow and fast beat sequences are represented differently through space" (De Tommaso & Prpic, 2020, in <i>Attention, Perception, & Psychophysics</i>). <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 1518-1521.	1.3	1
132	Measuring the Mathematical Mind: Embodied Evidence from Motor Resonance, Negative Numbers, Calculation Biases, and Emotional Priming. , 2021, , 149-170.		1
133	Number to me, space to you: Joint representation of spatial-numerical associations. <i>Psychonomic Bulletin and Review</i> , 2021, , 1.	2.8	1
134	Movement, Attention, and Perception: Guest Editors' Introduction. <i>Journal of General Psychology</i> , 2004, 131, 325-327.	2.8	0
135	A spatial perspective on numerical concepts. <i>Behavioral and Brain Sciences</i> , 2008, 31, 651-652.	0.7	0
136	Motivational aspects of recognizing a smile. <i>Behavioral and Brain Sciences</i> , 2010, 33, 452-453.	0.7	0
137	Repeating Numbers Reduces Results: Violations of the Identity Axiom in Mental Arithmetic. <i>Frontiers in Psychology</i> , 2018, 9, 2453.	2.1	0
138	Commentary on: E. H. Toomarian and E. M. Hubbard (2018), on the genesis of spatial-numerical associations: Evolutionary and cultural factors co-construct the mental number line. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 95, 189-190.	6.1	0
139	Separation/connection procedures: From cleansing behavior to numerical cognition. <i>Behavioral and Brain Sciences</i> , 2021, 44, e5.	0.7	0
140	Social robot "Jack of all trades?". <i>Paladyn</i> , 2022, 13, 1-22.	2.7	0