

# 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	Grounding (fairly) complex numerical knowledge: an educational example. <i>Psychological Research</i> , 2022, 86, 2389-2397.	1.7	5
2	Social robot "Jack of all trades?". <i>Paladyn</i> , 2022, 13, 1-22.	2.7	0
3	Abstract concepts: external influences, internal constraints, and methodological issues. <i>Psychological Research</i> , 2022, 86, 2370-2388.	1.7	8
4	Systematic spatial distortion of quantitative estimates. <i>Psychological Research</i> , 2021, 85, 2177-2185.	1.7	4
5	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
6	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
7	Reaching Out for Food: How Food Incentives Modulate Peripersonal Space Perception. <i>Journal of Cognition</i> , 2021, 4, 21.	1.4	2
8	Turn the beat around: Commentary on "Slow and fast beat sequences are represented differently through space" (De Tommaso & Prpic, 2020, in <i>Attention, Perception, &amp; Psychophysics</i> ). <i>Attention, Perception, and Psychophysics</i> , 2021, 83, 1518-1521.	1.3	1
9	"BreathThink" breathing affects production and perception of quantities. <i>Experimental Brain Research</i> , 2021, 239, 2489-2499.	1.5	5
10	Neuromuscular Diseases Affect Number Representation and Processing: An Exploratory Study. <i>Frontiers in Psychology</i> , 2021, 12, 697881.	2.1	4
11	More Instructions Make Fewer Subtractions. <i>Frontiers in Psychology</i> , 2021, 12, 720616.	2.1	2
12	Separation/connection procedures: From cleansing behavior to numerical cognition. <i>Behavioral and Brain Sciences</i> , 2021, 44, e5.	0.7	0
13	Measuring the Mathematical Mind: Embodied Evidence from Motor Resonance, Negative Numbers, Calculation Biases, and Emotional Priming. , 2021, , 149-170.		1
14	Number to me, space to you: Joint representation of spatial-numerical associations. <i>Psychonomic Bulletin and Review</i> , 2021, , 1.	2.8	1
15	Stimulating numbers: signatures of finger counting in numerosity processing. <i>Psychological Research</i> , 2020, 84, 152-167.	1.7	17
16	Assessing orienting of attention to understand the time course of mental calculation. <i>Cognitive Processing</i> , 2020, 21, 493-500.	1.4	1
17	The Brain's Asymmetric Frequency Tuning: Asymmetric Behavior Originates from Asymmetric Perception. <i>Symmetry</i> , 2020, 12, 2083.	2.2	10
18	The Unbearable Lightness of Attentional Cuing by Symbolic Magnitude: Commentary on the Registered Replication Report by Colling et al.. <i>Advances in Methods and Practices in Psychological Science</i> , 2020, 3, 163-165.	9.4	5

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19	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
20	Commentary: A mental number line in human newborns. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 99.	2.0	5
21	Nothing to dance about: unclear evidence for symbolic representations and numerical competence in honeybees. A Comment on: Symbolic representation of numerosity by honeybees ( <i>Apis mellifera</i> ): matching characters to small quantities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192840.	2.6	6
22	The Force of Numbers: Investigating Manual Signatures of Embodied Number Processing. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 590508.	2.0	8
23	Idioms in the World: A Focus on Processing. <i>Frontiers in Psychology</i> , 2019, 10, 1155.	2.1	3
24	Potentials of Virtual Reality as an Instrument for Research and Education. <i>I-com</i> , 2019, 18, 3-15.	1.3	12
25	A hierarchical view of abstractness: Grounded, embodied, and situated aspects. <i>Physics of Life Reviews</i> , 2019, 29, 161-163.	2.8	7
26	Mental Number Representations in 2D Space. <i>Frontiers in Psychology</i> , 2019, 10, 172.	2.1	14
27	Moving arms: the effects of sensorimotor information on the problem-solving process. <i>Thinking and Reasoning</i> , 2019, 25, 171-191.	3.2	9
28	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
29	Deconstructing spatial-numerical associations. <i>Cognition</i> , 2018, 175, 109-113.	2.2	67
30	The visual number world: A dynamic approach to study the mathematical mind. <i>Quarterly Journal of Experimental Psychology</i> , 2018, 71, 28-36.	1.1	3
31	Heuristics and biases in mental arithmetic: revisiting and reversing operational momentum. <i>Thinking and Reasoning</i> , 2018, 24, 138-156.	3.2	24
32	Observation of directional storybook reading influences young children's counting direction. <i>Journal of Experimental Child Psychology</i> , 2018, 166, 49-66.	1.4	36
33	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
34	Commentary : The Developmental Trajectory of the Operational Momentum Effect. <i>Frontiers in Psychology</i> , 2018, 9, 2259.	2.1	2
35	Repeating Numbers Reduces Results: Violations of the Identity Axiom in Mental Arithmetic. <i>Frontiers in Psychology</i> , 2018, 9, 2453.	2.1	0
36	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

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37	Language, Culture, and Space: Reconstructing Spatial-Numerical Associations. , 2018, , 257-274.		6
38	Commentary: The mental representation of integers: An abstract-to-concrete shift in the understanding of mathematical concepts. <i>Frontiers in Psychology</i> , 2018, 9, 209.	2.1	4
39	Commentary: Robots As Intentional Agents: Using Neuroscientific Methods to Make Robots Appear More Social. <i>Frontiers in Psychology</i> , 2018, 9, 1131.	2.1	3
40	Number concepts: abstract and embodied. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170125.	4.0	48
41	Incidental Counting: Speeded Number Naming Through Finger Movements. <i>Journal of Cognition</i> , 2018, 1, 44.	1.4	7
42	Finger posing primes number comprehension. <i>Cognitive Processing</i> , 2017, 18, 237-248.	1.4	27
43	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
44	Cognitive Mechanisms Underlying Directional and Non-directional Spatial-Numerical Associations across the Lifespan. <i>Frontiers in Psychology</i> , 2017, 8, 1421.	2.1	24
45	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
46	Why Numbers Are Embodied Concepts. <i>Frontiers in Psychology</i> , 2017, 8, 2347.	2.1	13
47	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
48	Is Handwriting Performance Affected by the Writing Surface? Comparing Preschoolers', Second Graders', and Adults' Writing Performance on a Tablet vs. Paper. <i>Frontiers in Psychology</i> , 2016, 7, 1308.	2.1	50
49	Effects of Hand Proximity and Movement Direction in Spatial and Temporal Gap Discrimination. <i>Frontiers in Psychology</i> , 2016, 7, 1930.	2.1	4
50	Exploring the numerical mind by eye-tracking: a special issue. <i>Psychological Research</i> , 2016, 80, 325-333.	1.7	11
51	Adapting to the surface: A comparison of handwriting measures when writing on a tablet computer and on paper. <i>Human Movement Science</i> , 2016, 48, 62-73.	1.4	33
52	Counting is a spatial process: evidence from eye movements. <i>Psychological Research</i> , 2016, 80, 399-409.	1.7	42
53	Ocular drift along the mental number line. <i>Psychological Research</i> , 2016, 80, 379-388.	1.7	35
54	Measuring spatialâ€“numerical associations: evidence for a purely conceptual link. <i>Psychological Research</i> , 2016, 80, 109-112.	1.7	32

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55	Cross-Representational Interactions: Interface and Overlap Mechanisms. <i>Frontiers in Psychology</i> , 2016, 07, 2028.	2.1	6
56	Facial Feedback Affects Perceived Intensity but Not Quality of Emotional Expressions. <i>Brain Sciences</i> , 2015, 5, 357-368.	2.3	22
57	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
58	Spatial biases during mental arithmetic: evidence from eye movements on a blank screen. <i>Frontiers in Psychology</i> , 2015, 6, 12.	2.1	66
59	Two steps to space for numbers. <i>Frontiers in Psychology</i> , 2015, 6, 612.	2.1	8
60	Development of spatial preferences for counting and picture naming. <i>Psychological Research</i> , 2015, 79, 939-949.	1.7	22
61	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
62	Embodied number processing. <i>Journal of Cognitive Psychology</i> , 2015, 27, 381-387.	0.9	17
63	The oculomotor resonance effect in spatialâ€“numerical mapping. <i>Acta Psychologica</i> , 2015, 161, 162-169.	1.5	19
64	Mental number space in three dimensions. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 57, 209-219.	6.1	106
65	The Development of Arabic Digit Knowledge in 4- to 7-Year-Old Children. <i>Journal of Numerical Cognition</i> , 2015, 1, 21-37.	1.2	32
66	Pushing forward in embodied cognition: may we mouse the mathematical mind?. <i>Frontiers in Psychology</i> , 2014, 5, 1315.	2.1	45
67	Attentional cueing in numerical cognition. <i>Frontiers in Psychology</i> , 2014, 5, 1381.	2.1	20
68	Removing spatial responses reveals spatial conceptsâ€“even in a culture with mixed reading habits. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 966.	2.0	10
69	TEST: A Tropic, Embodied, and Situated Theory of Cognition. <i>Topics in Cognitive Science</i> , 2014, 6, 442-460.	1.9	61
70	Heed the Signs: Operation Signs have Spatial Associations. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1527-1540.	1.1	59
71	Spatial Associations in Numerical Cognitionâ€“From Single Digits to Arithmetic. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1461-1483.	1.1	183
72	Spatial Biases in Mental Arithmetic. <i>Quarterly Journal of Experimental Psychology</i> , 2014, 67, 1457-1460.	1.1	9

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73	Aspects of situated cognition in embodied numerosity: the case of finger counting. <i>Cognitive Processing</i> , 2014, 15, 317-328.	1.4	48
74	Random walks on the mental number line. <i>Experimental Brain Research</i> , 2014, 232, 43-49.	1.5	63
75	Pupillometry: The Eyes Shed Fresh Light on the Mind. <i>Current Biology</i> , 2014, 24, R281-R282.	3.9	65
76	Visual and linguistic cues to graspable objects. <i>Experimental Brain Research</i> , 2013, 229, 545-559.	1.5	31
77	Your neighbors define your value: A study of spatial bias in number comparison. <i>Acta Psychologica</i> , 2013, 142, 308-313.	1.5	3
78	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
79	Listening to Limericks: A Pupillometry Investigation of Perceivers' Expectancy. <i>PLoS ONE</i> , 2013, 8, e74986.	2.5	37
80	Multiple spatial mappings in numerical cognition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2012, 38, 804-809.	0.9	65
81	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
82	A hierarchical view of grounded, embodied, and situated numerical cognition. <i>Cognitive Processing</i> , 2012, 13, 161-164.	1.4	139
83	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
84	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
85	Object affordance influences instruction span. <i>Experimental Brain Research</i> , 2012, 223, 199-206.	1.5	17
86	Finger Counting and Numerical Cognition. <i>Frontiers in Psychology</i> , 2012, 3, 108.	2.1	22
87	Computational Grounded Cognition: a new alliance between grounded cognition and computational modeling. <i>Frontiers in Psychology</i> , 2012, 3, 612.	2.1	108
88	The Mechanics of Embodiment: A Dialog on Embodiment and Computational Modeling. <i>Frontiers in Psychology</i> , 2011, 2, 5.	2.1	114
89	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
90	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

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91	Attention deployment during memorizing and executing complex instructions. <i>Experimental Brain Research</i> , 2011, 214, 249-259.	1.5	6
92	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
93	Multi-Digit Number Processing. <i>Zeitschrift Fur Psychologie / Journal of Psychology</i> , 2011, 219, 1-2.	1.0	7
94	Extending the Mental Number Line. <i>Zeitschrift Fur Psychologie / Journal of Psychology</i> , 2011, 219, 3-22.	1.0	94
95	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
96	Motivational aspects of recognizing a smile. <i>Behavioral and Brain Sciences</i> , 2010, 33, 452-453.	0.7	0
97	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
98	Asymmetric prefrontal cortex functions predict asymmetries in number space. <i>Brain and Cognition</i> , 2010, 74, 306-311.	1.8	11
99	It Takes Just One Word to Quash a SNARC. <i>Experimental Psychology</i> , 2009, 56, 361-366.	0.7	76
100	Non-abstractness as mental simulation in the representation of number. <i>Behavioral and Brain Sciences</i> , 2009, 32, 343-344.	0.7	6
101	Pointing to numbers and grasping magnitudes. <i>Experimental Brain Research</i> , 2009, 192, 149-153.	1.5	29
102	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
103	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
104	Reading space into numbers – a cross-linguistic comparison of the SNARC effect. <i>Cognition</i> , 2008, 108, 590-599.	2.2	199
105	Mental movements without magnitude? A study of spatial biases in symbolic arithmetic. <i>Cognition</i> , 2008, 109, 408-415.	2.2	174
106	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
107	Finger counting habits modulate spatial-numerical associations. <i>Cortex</i> , 2008, 44, 386-392.	2.4	211
108	Numbers, space, and action – From finger counting to the mental number line and beyond. <i>Cortex</i> , 2008, 44, 353-358.	2.4	45

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109	Grasp Cueing shows Obligatory Attention to Action Goals. Quarterly Journal of Experimental Psychology, 2008, 61, 860-868.	1.1	44
110	A spatial perspective on numerical concepts. Behavioral and Brain Sciences, 2008, 31, 651-652.	0.7	0
111	Predicting the actions of others taps into one's own somatosensory representationsâ€”A functional MRI study. Neuropsychologia, 2007, 45, 2480-2491.	1.6	58
112	Visual layout modulates Fittsâ€™s law: The importance of first and last positions. Psychonomic Bulletin and Review, 2007, 14, 350-355.	2.8	26
113	The time course of visuo-motor affordances. Experimental Brain Research, 2007, 176, 519-524.	1.5	29
114	On the timing of reference frames for action control. Experimental Brain Research, 2007, 183, 127-132.	1.5	11
115	The Future for Snarc Could Be Starkâ€¦. Cortex, 2006, 42, 1066-1068.	2.4	84
116	Readersâ€™ responses to sub-genre and rhyme scheme in poetry. Poetics, 2006, 34, 204-218.	1.3	30
117	Action simulation for others is not constrained by oneâ€™s own postures. Neuropsychologia, 2005, 43, 28-34.	1.6	20
118	Designing bar graphs: orientation matters. Applied Cognitive Psychology, 2005, 19, 953-962.	1.6	26
119	Perceived reachability: the roles of handedness and hemifield. Experimental Brain Research, 2005, 160, 283-289.	1.5	26
120	The inversion effect on gaze perception reflects processing of component information. Experimental Brain Research, 2005, 167, 49-55.	1.5	30
121	Movement, Attention, and Perception: Guest Editors' Introduction. Journal of General Psychology, 2004, 131, 325-327.	2.8	0
122	Oculomotor Bias Induced by Number Perception. Experimental Psychology, 2004, 51, 91-97.	0.7	120
123	Space- and object-based attention depend on motor intention. Journal of General Psychology, 2004, 131, 365-77.	2.8	25
124	Can we correctly perceive the reaching range of others?. British Journal of Psychology, 2003, 94, 487-500.	2.3	15
125	Inhibition of return and manual pointing movements. Perception & Psychophysics, 2003, 65, 379-387.	2.3	36
126	Perceiving numbers causes spatial shifts of attention. Nature Neuroscience, 2003, 6, 555-556.	14.8	555



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127	Spatial representations in number processing—evidence from a pointing task. <i>Visual Cognition</i> , 2003, 10, 493-508.	1.6	148
128	Cognitive Representation of Negative Numbers. <i>Psychological Science</i> , 2003, 14, 278-282.	3.3	93
129	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
130	Probing Spatial Working Memory with the Corsi Blocks Task. <i>Brain and Cognition</i> , 2001, 45, 143-154.	1.8	82
131	Cognition in the bisection task. <i>Trends in Cognitive Sciences</i> , 2001, 5, 460-462.	7.8	42
132	How sensitive is hand transport to illusory context effects?. <i>Experimental Brain Research</i> , 2001, 136, 224-230.	1.5	60
133	Distractor effects on pointing: the role of spatial layout. <i>Experimental Brain Research</i> , 2001, 136, 507-513.	1.5	59
134	Estimating reachability: Whole body engagement or postural stability?. <i>Human Movement Science</i> , 2000, 19, 297-318.	1.4	65
135	Word Centre is Misperceived. <i>Perception</i> , 2000, 29, 337-354.	1.2	25
136	Memory for Word Locations in Reading. <i>Memory</i> , 1999, 7, 79-116.	1.7	27
137	Unspaced text interferes with both word identification and eye movement control. <i>Vision Research</i> , 1998, 38, 1129-1144.	1.4	289
138	Bisection performance indicates spatial word representation. <i>Cognitive Brain Research</i> , 1996, 4, 163-170.	3.0	29
139	Mindless reading revisited: Eye movements during reading and scanning are different. <i>Perception &amp; Psychophysics</i> , 1996, 58, 734-747.	2.3	224
140	Less Attention and More Perception in Cued Line Bisection. <i>Brain and Cognition</i> , 1994, 25, 24-33.	1.8	43