Zachary C K Hawes

List of Publications by Year
in descending order

24	946	759233 12	642732 23
papers	citations	h-index	g-index

24	24	24	629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of spatial training on mathematics performance: A meta-analysis.. Developmental Psychology, 2022, 58, 112-137.	1.6	46
2	Disentangling the individual and contextual effects of math anxiety: A global perspective. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	15
3	Spatial thinking as the missing piece in mathematics curricula. Npj Science of Learning, 2022, 7, .	2.8	7
4	Symbols Are Special: An fMRI Adaptation Study of Symbolic, Nonsymbolic, and Non-Numerical Magnitude Processing in the Human Brain. Cerebral Cortex Communications, 2021, 2, tgab048.	1.6	6
5	Integrating numerical cognition research and mathematics education to strengthen the teaching and learning of early number. British Journal of Educational Psychology, 2021, 91, 1073-1109.	2.9	4
6	Exploring the Implementation of Early Math Assessments in Kindergarten Classrooms: A ‹scp›Researchâ€Practice‹/scp› Collaboration. Mind, Brain, and Education, 2021, 15, 311-321.	1.9	1
7	Enhancing spatial skills through mechanical problem solving. Learning and Instruction, 2021, 75, 101496.	3.2	4
8	Effects of a Teacherâ€Designed and Teacherâ€Led Numerical Board Game Intervention: A Randomized Controlled Study with 4â€•to 6â€Yearâ€Olds. Mind, Brain, and Education, 2020, 14, 71-80.	1.9	5
9	The central position of education in knowledge mobilization: insights from network analyses of spatial reasoning research across disciplines. Scientometrics, 2020, 125, 2323-2347.	3.0	0
10	What explains the relationship between spatial and mathematical skills? A review of evidence from brain and behavior. Psychonomic Bulletin and Review, 2020, 27, 465-482.	2.8	76
11	Why Educational Neuroscience Needs Educational and School Psychology to Effectively Translate Neuroscience to Educational Practice. Frontiers in Psychology, 2020, 11, 618449.	2.1	20
12	Neural underpinnings of numerical and spatial cognition: An fMRI meta-analysis of brain regions associated with symbolic number, arithmetic, and mental rotation. Neuroscience and Biobehavioral Reviews, 2019, 103, 316-336.	6.1	131
13	Relations between numerical, spatial, and executive function skills and mathematics achievement: A latent-variable approach. Cognitive Psychology, 2019, 109, 68-90.	2.2	100
14	What explains sex differences in math anxiety? A closer look at the role of spatial processing. Cognition, 2019, 182, 193-212.	2.2	42
15	Kindergarten children's symbolic number comparison skills relates to 1st grade mathematics achievement: Evidence from a two-minute paper-and-pencil test. Learning and Instruction, 2019, 59, 21-33.	3.2	30
16	Spatial Skills Framework for Young Engineers. Early Mathematics Learning and Development, 2018, , 53-81.	0.3	7
17	Understanding gaps in research networks: using â€œspatial reasoningâ€•as a window into the importance of networked educational research. Educational Studies in Mathematics, 2017, 95, 143-161.	2.8	42
18	Multidisciplinary Perspectives on a Video Case of Children Designing and Coding for Robotics. Canadian Journal of Science, Mathematics and Technology Education, 2017, 17, 165-178.	1.0	6

#	Article	IF	Citations
19	Enhancing Children's Spatial and Numerical Skills through a Dynamic Spatial Approach to Early Geometry Instruction: Effects of a 32-Week Intervention. Cognition and Instruction, 2017, 35, 236-264.	2.9	100
20	Mental Rotation With Tangible Threeâ€Dimensional Objects: A New Measure Sensitive to Developmental Differences in 4â€•to 8â€Yearâ€Old Children. Mind, Brain, and Education, 2015, 9, 10-18.	1.9	78
21	The role of 2D and 3D mental rotation in mathematics for young children: what is it? Why does it matter? And what can we do about it?. ZDM - International Journal on Mathematics Education, 2015, 47, 331-343.	2.2	63
22	Adapting Japanese Lesson Study to enhance the teaching and learning of geometry and spatial reasoning in early years classrooms: a case study. ZDM - International Journal on Mathematics Education, 2015, 47, 377-390.	2.2	44
23	Effects of mental rotation training on childrenâ€™s spatial and mathematics performance: A randomized controlled study. Trends in Neuroscience and Education, 2015, 4, 60-68.	3.1	117
24	Choreographing Patterns and Functions. Teaching Children Mathematics, 2012, 19, 302-309.	0.2	2