

# Zachary C K Hawes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9123016/publications.pdf>

Version: 2024-02-01

24  
papers

946  
citations

759233

12  
h-index

642732

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural underpinnings of numerical and spatial cognition: An fMRI meta-analysis of brain regions associated with symbolic number, arithmetic, and mental rotation. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 103, 316-336.	6.1	131
2	Effects of mental rotation training on children's spatial and mathematics performance: A randomized controlled study. <i>Trends in Neuroscience and Education</i> , 2015, 4, 60-68.	3.1	117
3	Enhancing Children's Spatial and Numerical Skills through a Dynamic Spatial Approach to Early Geometry Instruction: Effects of a 32-Week Intervention. <i>Cognition and Instruction</i> , 2017, 35, 236-264.	2.9	100
4	Relations between numerical, spatial, and executive function skills and mathematics achievement: A latent-variable approach. <i>Cognitive Psychology</i> , 2019, 109, 68-90.	2.2	100
5	Mental Rotation With Tangible Three-Dimensional Objects: A New Measure Sensitive to Developmental Differences in 4- to 8-Year-Old Children. <i>Mind, Brain, and Education</i> , 2015, 9, 10-18.	1.9	78
6	What explains the relationship between spatial and mathematical skills? A review of evidence from brain and behavior. <i>Psychonomic Bulletin and Review</i> , 2020, 27, 465-482.	2.8	76
7	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?. <i>ZDM - International Journal on Mathematics Education</i> , 2015, 47, 331-343.	2.2	63
8	Effects of spatial training on mathematics performance: A meta-analysis.. <i>Developmental Psychology</i> , 2022, 58, 112-137.	1.6	46
9	Adapting Japanese Lesson Study to enhance the teaching and learning of geometry and spatial reasoning in early years classrooms: a case study. <i>ZDM - International Journal on Mathematics Education</i> , 2015, 47, 377-390.	2.2	44
10	Understanding gaps in research networks: using "spatial reasoning" as a window into the importance of networked educational research. <i>Educational Studies in Mathematics</i> , 2017, 95, 143-161.	2.8	42
11	What explains sex differences in math anxiety? A closer look at the role of spatial processing. <i>Cognition</i> , 2019, 182, 193-212.	2.2	42
12	Kindergarten children's symbolic number comparison skills relates to 1st grade mathematics achievement: Evidence from a two-minute paper-and-pencil test. <i>Learning and Instruction</i> , 2019, 59, 21-33.	3.2	30
13	Why Educational Neuroscience Needs Educational and School Psychology to Effectively Translate Neuroscience to Educational Practice. <i>Frontiers in Psychology</i> , 2020, 11, 618449.	2.1	20
14	Disentangling the individual and contextual effects of math anxiety: A global perspective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	15
15	Spatial Skills Framework for Young Engineers. <i>Early Mathematics Learning and Development</i> , 2018, , 53-81.	0.3	7
16	Spatial thinking as the missing piece in mathematics curricula. <i>Npj Science of Learning</i> , 2022, 7, .	2.8	7
17	Multidisciplinary Perspectives on a Video Case of Children Designing and Coding for Robotics. <i>Canadian Journal of Science, Mathematics and Technology Education</i> , 2017, 17, 165-178.	1.0	6
18	Symbols Are Special: An fMRI Adaptation Study of Symbolic, Nonsymbolic, and Non-Numerical Magnitude Processing in the Human Brain. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab048.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Effects of a Teacher-Designed and Teacher-Led Numerical Board Game Intervention: A Randomized Controlled Study with 4- to 6-Year-Olds. <i>Mind, Brain, and Education</i> , 2020, 14, 71-80.	1.9	5
20	Integrating numerical cognition research and mathematics education to strengthen the teaching and learning of early number. <i>British Journal of Educational Psychology</i> , 2021, 91, 1073-1109.	2.9	4
21	Enhancing spatial skills through mechanical problem solving. <i>Learning and Instruction</i> , 2021, 75, 101496.	3.2	4
22	Choreographing Patterns and Functions. <i>Teaching Children Mathematics</i> , 2012, 19, 302-309.	0.2	2
23	Exploring the Implementation of Early Math Assessments in Kindergarten Classrooms: A Research-Practice Collaboration. <i>Mind, Brain, and Education</i> , 2021, 15, 311-321.	1.9	1
24	The central position of education in knowledge mobilization: insights from network analyses of spatial reasoning research across disciplines. <i>Scientometrics</i> , 2020, 125, 2323-2347.	3.0	0