

# Thomas F Shipley

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1627557/publications.pdf>

Version: 2024-02-01

41  
papers

1,306  
citations

471509

17  
h-index

434195

31  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1051  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variations in cognitive maps: Understanding individual differences in navigation.. Journal of Experimental Psychology: Learning Memory and Cognition, 2014, 40, 669-682.	0.9	172
2	Thinking About Spatial Thinking: New Typology, New Assessments. , 2015, , 179-192.		151
3	The Curious Construct of Active Learning. Psychological Science in the Public Interest: A Journal of the American Psychological Society, 2021, 22, 8-43.	10.7	112
4	Cognitive and psychological science insights to improve climate change data visualization. Nature Climate Change, 2016, 6, 1080-1089.	18.8	107
5	Evaluating Geoscience Students' Spatial Thinking Skills in a Multi-Institutional Classroom Study. Journal of Geoscience Education, 2014, 62, 146-154.	1.4	79
6	Twisting space: are rigid and non-rigid mental transformations separate spatial skills?. Cognitive Processing, 2013, 14, 163-173.	1.4	68
7	Sensitivity of alpha and beta oscillations to sensorimotor characteristics of action: An EEG study of action production and gesture observation. Neuropsychologia, 2012, 50, 2745-2751.	1.6	61
8	Commentary: Analogical Thinking in Geoscience Education. Journal of Geoscience Education, 2010, 58, 2-13.	1.4	57
9	Comprehending 3D Diagrams: Sketching to Support Spatial Reasoning. Topics in Cognitive Science, 2017, 9, 883-901.	1.9	54
10	Student Gestures Aid Penetrative Thinking. Journal of Geoscience Education, 2015, 63, 66-72.	1.4	51
11	Breaking new ground in the mind: an initial study of mental brittle transformation and mental rigid rotation in science experts. Cognitive Processing, 2013, 14, 143-152.	1.4	47
12	Using Relational Reasoning to Learn About Scientific Phenomena at Unfamiliar Scales. Educational Psychology Review, 2017, 29, 11-25.	8.4	32
13	The Spatial Thinking Workbook: A Research-Validated Spatial Skills Curriculum for Geology Majors. Journal of Geoscience Education, 2017, 65, 423-434.	1.4	30
14	Spatiotemporal unit formation. Behavioral and Brain Sciences, 1998, 21, 772-772.	0.7	25
15	Boundary Completion in Illusory Contours: Interpolation or Extrapolation?. Perception, 2003, 32, 985-999.	1.2	25
16	Dealing with Big Numbers: Representation and Understanding of Magnitudes Outside of Human Experience. Cognitive Science, 2017, 41, 1020-1041.	1.7	25
17	Learning to interpret topographic maps: Understanding layered spatial information. Cognitive Research: Principles and Implications, 2016, 1, 2.	2.0	24
18	Communication of IPCC visuals: IPCC authors's views and assessments of visual complexity. Climatic Change, 2020, 158, 255-270.	3.6	19

#	ARTICLE	IF	CITATIONS
19	Interactions between spatial and spatiotemporal information in spatiotemporal boundary formation. <i>Perception &amp; Psychophysics</i> , 1998, 60, 839-851.	2.3	16
20	Learning About Spatial and Temporal Scale: Current Research, Psychological Processes, and Classroom Implications. <i>Journal of Geoscience Education</i> , 2017, 65, 455-472.	1.4	16
21	Transdisciplinary Science Education Research and Practice: Opportunities for GER in a Developing STEM Discipline-Based Education Research Alliance (DBER-A). <i>Journal of Geoscience Education</i> , 2017, 65, 354-362.	1.4	14
22	Seeing Like a Geologist: Bayesian Use of Expert Categories in Location Memory. <i>Cognitive Science</i> , 2016, 40, 440-454.	1.7	12
23	Assessing how visual search entropy and engagement predict performance in a multiple-objects tracking air traffic control task. <i>Computers in Human Behavior Reports</i> , 2021, 4, 100127.	4.0	12
24	The Roles of Working Memory and Cognitive Load in Geoscience Learning. <i>Journal of Geoscience Education</i> , 2017, 65, 506-518.	1.4	11
25	Using analogy to learn about phenomena at scales outside human perception. <i>Cognitive Research: Principles and Implications</i> , 2017, 2, 21.	2.0	9
26	How students reason about visualizations from large professionally collected data sets: A study of students approaching the threshold of data proficiency. <i>Journal of Geoscience Education</i> , 2018, 66, 55-76.	1.4	9
27	When seeing what's wrong makes you right: The effect of erroneous examples on <sc>3D</sc> diagram learning. <i>Applied Cognitive Psychology</i> , 2020, 34, 844-861.	1.6	9
28	Categorical biases in spatial memory: The role of certainty.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2015, 41, 473-481.	0.9	7
29	The Role of Geoscience Education Research in the Consilience between Science of the Mind and Science of the Natural World. <i>Journal of Geoscience Education</i> , 2017, 65, 393-398.	1.4	7
30	Promoting Sketching in Introductory Geoscience Courses: CogSketch Geoscience Worksheets. <i>Topics in Cognitive Science</i> , 2017, 9, 943-969.	1.9	7
31	Click-On-Diagram Questions: a New Tool to Study Conceptions Using Classroom Response Systems. <i>Journal of Science Education and Technology</i> , 2018, 27, 492-507.	3.9	7
32	Visual completion from 2D cross-sections: Implications for visual theory and STEM education and practice. <i>Cognitive Research: Principles and Implications</i> , 2016, 1, 9.	2.0	6
33	Evidence of vulnerability to decision bias in expert field scientists. <i>Applied Cognitive Psychology</i> , 2020, 34, 1217-1223.	1.6	6
34	Assessing Water Literacy: Undergraduate Student Conceptions of Groundwater and Surface Water Flow. <i>Water (Switzerland)</i> , 2021, 13, 622.	2.7	5
35	Assessment of the General Public's Understanding of Rapidly Produced Earthquake Information Products ShakeMap and PAGER. <i>Seismological Research Letters</i> , 2022, 93, 2891-2905.	1.9	4
36	Spatially and temporally distributed data foraging decisions in disciplinary field science. <i>Cognitive Research: Principles and Implications</i> , 2021, 6, 29.	2.0	3

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37	Reasoning about time from space: Visual continuity may disrupt reasoning about the passage of time within accreted materials. <i>Journal of Geoscience Education</i> , 2018, 66, 147-165.	1.4	2
38	Social comparison for concern and action on climate change, racial injustice, and COVID-19. <i>Analyses of Social Issues and Public Policy</i> , 2022, 22, 469-489.	1.7	2
39	Challenges in Making Meaning from Ground-Motion Visualizations: The Role of Geoscience Knowledge in Interpreting Dynamic Spatiotemporal Patterns. <i>Seismological Research Letters</i> , 2019, , .	1.9	1
40	Explicit Instruction of Scientific Uncertainty in an Undergraduate Geoscience Field-Based Course. <i>Science and Education</i> , 2022, 31, 1541-1566.	2.7	1
41	Scaffolding geology content and spatial skills with playdough modeling in the field and classroom. <i>Journal of Geoscience Education</i> , 0, , 1-15.	1.4	1