Ruth Stavy

List of Publications by Year
in descending order

51	2,062	236925	243625
papers	citations	25 h-index	44 g-index

53	53	53	918
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Students' cellular and molecular explanations of genetic phenomena. Journal of Biological Education, 2000, 34, 200-205.	1.5	173
2	Children's conception of changes in the state of matter: From liquid (or solid) to gas. Journal of Research in Science Teaching, 1990, 27, 247-266.	3.3	133
3	Using analogy to overcome misconceptions about conservation of matter. Journal of Research in Science Teaching, 1991, 28, 305-313.	3.3	110
4	The development of biological knowledge: A multi-national study. Cognitive Development, 1993, 8, 47-62.	1.3	107
5	Children's conception of gas. International Journal of Science Education, 1988, 10, 553-560.	1.9	103
6	Using computer animation and illustration activities to improve high school students' achievement in molecular genetics. Journal of Research in Science Teaching, 2008, 45, 273-292.	3.3	101
7	Cognitive conflict as a basis for teaching quantitative aspects of the concept of temperature. Science Education, 1980, 64, 679-692.	3.0	98
8	How students aged 13â€15 understand photosynthesis. International Journal of Science Education, 1987, 9, 105-115.	1.9	87
9	Intuitive rules in science and mathematics: the case of â€˜more of A â€â€•more of Bâ€™. International Journal of Science Education, 1996, 18, 653-667.	1.9	85
10	Childrenâ€™s Conceptions of Plants as Living Things. Human Development, 1989, 32, 88-94.	2.0	78
11	Students' Understanding of Photosynthesis. American Biology Teacher, 1988, 50, 208-212.	0.2	65
12	Effect of bead and illustrations models on high school students' achievement in molecular genetics. Journal of Research in Science Teaching, 2006, 43, 500-529.	3.3	60
13	Intuitive rules: A way to explain and predict students' reasoning. Educational Studies in Mathematics, 1999, 38, 51-66.	2.8	58
14	Children's Ideas About Matter. School Science and Mathematics, 1991, 91, 240-244.	0.9	54
15	Using a Computer Animation to Teach High School Molecular Biology. Journal of Science Education and Technology, 2008, 17, 49-58.	3.9	49
16	Persistence of the Intuitive Conception of Living Things in Adolescence. Journal of Science Education and Technology, 2010, 19, 20-26.	3.9	48
17	Development of intuitive rules: Evaluating the application of the dual-system framework to understanding childrenâ€™s intuitive reasoning. Psychonomic Bulletin and Review, 2006, 13, 935-953.	2.8	47
18	Pupilsâ€™ problems in understanding conservation of matter. International Journal of Science Education, 1990, 12, 501-512.	1.9	46

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19	Children's ideas about â€˜solidâ€™ and â€˜liquidâ€™. European Journal of Science Education, 1985, 7, 407-421.	1.1	41
20	Overcoming intuitive interference in mathematics: insights from behavioral, brain imaging and intervention studies. ZDM - International Journal on Mathematics Education, 2010, 42, 621-633.	2.2	40
21	Intuitive interference in quantitative reasoning. Brain Research, 2006, 1073-1074, 383-388.	2.2	36
22	Intuitive Interference in Probabilistic Reasoning. International Journal of Science and Mathematics Education, 2006, 4, 627-639.	2.5	35
23	Cognitive conflict and intuitive rules. International Journal of Science Education, 1998, 20, 1257-1269.	1.9	32
24	Intuitive rules in science and mathematics: the case of â€˜Everything can be divided by twoâ€™. International Journal of Science Education, 1996, 18, 669-683.	1.9	28
25	A warning intervention improves studentsâ€™ ability to overcome intuitive interference. ZDM - International Journal on Mathematics Education, 2015, 47, 735-745.	2.2	28
26	Teaching science by inquiry: assessment and learning. Journal of Biological Education, 1998, 33, 27-32.	1.5	27
27	PREACTIVATION OF INHIBITORY CONTROL MECHANISMS HINDERS INTUITIVE REASONING. International Journal of Science and Mathematics Education, 2012, 10, 763-775.	2.5	26
28	Are Intuitive Rules Universal?. International Journal of Science and Mathematics Education, 2006, 4, 417-436.	2.5	25
29	Complexity of Shapes and Quantitative Reasoning in Geometry. Mind, Brain, and Education, 2008, 2, 170-176.	1.9	25
30	When analogy is perceived as such. Journal of Research in Science Teaching, 1993, 30, 1229-1239.	3.3	23
31	Comparison of perimeters: improving studentsâ€™ performance by increasing the salience of the relevant variable. ZDM - International Journal on Mathematics Education, 2016, 48, 367-378.	2.2	22
32	U-Shaped Behavioral Growth in Ratio Comparisons. , 1982, , 11-36.		19
33	Intuitive Rules and Comparison Tasks. Mathematical Thinking and Learning, 1999, 1, 179-194.	1.2	17
34	Understanding molecular genetics through a drawing-based activity. Journal of Biological Education, 2005, 39, 174-178.	1.5	15
35	THE EFFECT OF INTERVENTION ON ACCURACY OF STUDENTSâ€™ RESPONSES AND REACTION TIMES TO GEOMETRY PROBLEMS. International Journal of Science and Mathematics Education, 2010, 8, 185-201.	2.5	15
36	Intuitive Rules: A way to Explain and Predict Studentsâ€™ Reasoning. , 1999, , 51-66.		15

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37	How to make the learning of photosynthesis more relevant. International Journal of Science Education, 1993, 15, 117-125.	1.9	14
38	A microcomputerâ€based diagnostic system for identifying studentsâ€™ conception of heat and temperature. International Journal of Science Education, 1990, 12, 123-132.	1.9	10
39	Material Cycles in Nature. A New Approach to Teaching Photosynthesis in Junior High School. American Biology Teacher, 1992, 54, 339-342.	0.2	10
40	The Role of Intuitive Rules in Science and Mathematics Education. European Journal of Teacher Education, 1996, 19, 109-119.	3.7	7
41	Overgeneralization in mathematics and science: the effect of external similarity. International Journal of Mathematical Education in Science and Technology, 1992, 23, 239-248.	1.4	6
42	Students' Ability to Confine Their Application of Knowledge: The Case of Mathematics and Science. School Science and Mathematics, 1992, 92, 353-358.	0.9	6
43	Subdivision processes in mathematics and science. Journal of Research in Science Teaching, 1993, 30, 579-586.	3.3	6
44	Is it possible to confine the application of the intuitive rule: â€˜Subdivision processes can always be repeated'?. International Journal of Mathematical Education in Science and Technology, 1998, 29, 813-825.	1.4	5
45	Interventions aimed at overcoming intuitive interference: insights from brain-imaging and behavioral studies. Cognitive Processing, 2019, 20, 1-9.	1.4	5
46	Proportional Reasoning. Zeitschrift Fur Psychologie / Journal of Psychology, 2016, 224, 266-276.	1.0	5
47	Intuitive Interference inÂGeometry: An Eyeâ€Tracking Study. Mind, Brain, and Education, 2020, 14, 155-166.	1.9	4
48	Using the Intuitive Rules Theory as a Basis for Educating Teachers. , 2001, , 73-85.		4
49	Involvement of inhibitory control mechanisms in overcoming intuitive interference. Neuroeducation, 2014, 3, 1-9.	0.3	4
50	Proportional reasoning: Reducing the interference of natural numbers through an intervention based on the problem-solving framework of executive functions. Neuroeducation, 2018, 5, 109-118.	0.3	1
51	Discrete and Continuous Presentation of Quantities in Science and Mathematics Education. , 2016, , 289-303.		0