

Michael J Sanger

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,141
citations

623734

14
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	Common student misconceptions in electrochemistry: Galvanic, electrolytic, and concentration cells. <i>Journal of Research in Science Teaching</i> , 1997, 34, 377-398.	3.3	161
2	Addressing student misconceptions concerning electron flow in aqueous solutions with instruction including computer animations and conceptual change strategies. <i>International Journal of Science Education</i> , 2000, 22, 521-537.	1.9	127
3	Students' Misconceptions in Electrochemistry Regarding Current Flow in Electrolyte Solutions and the Salt Bridge. <i>Journal of Chemical Education</i> , 1997, 74, 819.	2.3	121
4	Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. <i>Journal of Chemical Education</i> , 2000, 77, 1517.	2.3	84
5	Using Particulate Drawings to Determine and Improve Students' Conceptions of Pure Substances and Mixtures. <i>Journal of Chemical Education</i> , 2000, 77, 762.	2.3	78
6	An Analysis of College Chemistry Textbooks As Sources of Misconceptions and Errors in Electrochemistry. <i>Journal of Chemical Education</i> , 1999, 76, 853.	2.3	77
7	Can Computer Animations Affect College Biology Students' Conceptions About Diffusion & Osmosis?. <i>American Biology Teacher</i> , 2001, 63, 104-109.	0.2	73
8	Evaluating Students' Conceptual Understanding of Balanced Equations and Stoichiometric Ratios Using a Particulate Drawing. <i>Journal of Chemical Education</i> , 2005, 82, 131.	2.3	70
9	Using Computer-Based Visualization Strategies to Improve Students' Understanding of Molecular Polarity and Miscibility. <i>Journal of Chemical Education</i> , 2001, 78, 1412.	2.3	54
10	Student misinterpretations and misconceptions based on their explanations of two computer animations of varying complexity depicting the same oxidation-reduction reaction. <i>Chemistry Education Research and Practice</i> , 2012, 13, 471-483.	2.5	40
11	Student misconceptions in writing balanced equations for dissolving ionic compounds in water. <i>Chemistry Education Research and Practice</i> , 2012, 13, 186-194.	2.5	37
12	"Concept Learning versus Problem Solving": Does Particle Motion Have an Effect?. <i>Journal of Chemical Education</i> , 2007, 84, 875.	2.3	32
13	What Are Students Thinking When They Pick Their Answer? A Content Analysis of Students' Explanations of Gas Properties. <i>Journal of Chemical Education</i> , 2007, 84, 870.	2.3	21
14	Investigating Students'™ Understanding of the Dissolving Process. <i>Journal of Science Education and Technology</i> , 2013, 22, 103-112.	3.9	20
15	The Rainbow Wheel and Rainbow Matrix: Two Effective Tools for Learning Ionic Nomenclature. <i>Journal of Chemical Education</i> , 2006, 83, 651.	2.3	14
16	How does viewing one computer animation affect students' interpretations of another animation depicting the same oxidation-reduction reaction?. <i>Chemistry Education Research and Practice</i> , 2013, 14, 286-296.	2.5	14
17	How Does Inquiry-Based Instruction Affect Teaching Majors' Views about Teaching and Learning Science?. <i>Journal of Chemical Education</i> , 2008, 85, 297.	2.3	13
18	Concept Learning versus Problem Solving: Evaluating a Threat to the Validity of a Particulate Gas Law Question. <i>Journal of Chemical Education</i> , 2013, 90, 700-709.	2.3	11

#	ARTICLE	IF	CITATIONS
19	Simple Flame Test Techniques Using Cotton Swabs. <i>Journal of Chemical Education</i> , 2004, 81, 969.	2.3	10
20	The Effects of Inquiry-Based Instruction on Elementary Teaching Majors' Chemistry Content Knowledge. <i>Journal of Chemical Education</i> , 2007, 84, 1035.	2.3	9
21	Two studies comparing students'™ explanations of an oxidation-™reduction reaction after viewing a single computer animation: the effect of varying the complexity of visual images and depicting water molecules. <i>Chemistry Education Research and Practice</i> , 2019, 20, 738-759.	2.5	9
22	Flame Tests: Which Ion Causes the Color?. <i>Journal of Chemical Education</i> , 2004, 81, 1776A.	2.3	8
23	"Which Pathway Am I?" Using a Game Approach To Teach Students about Biochemical Pathways. <i>Journal of Chemical Education</i> , 2009, 86, 454.	2.3	8
24	Analysing the distribution of questions in the gas law chapters of secondary and introductory college chemistry textbooks from the United States. <i>Chemistry Education Research and Practice</i> , 2014, 15, 787-799.	2.5	7
25	Aqueous Ammonia or Ammonium Hydroxide? Identifying a Base as Strong or Weak. <i>Journal of Chemical Education</i> , 2010, 87, 1213-1216.	2.3	6
26	How Does the Order of Viewing Two Computer Animations of the Same Oxidation-Reduction Reaction Affect Students'™ Particulate-Level Explanations?. <i>ACS Symposium Series</i> , 2013, , 313-340.	0.5	6
27	Rate Law Determination of Everyday Processes. <i>Journal of Chemical Education</i> , 2002, 79, 989.	2.3	5
28	Determination of the Empirical Formula of a Copper Oxide Salt Using Two Different Methods. <i>Journal of Chemical Education</i> , 2002, 79, 994.	2.3	4
29	Whatever Floats (or Sinks) Your Can. <i>Journal of Chemical Education</i> , 2006, 83, 1632A.	2.3	4
30	Using Inferential Statistics to Answer Quantitative Chemical Education Research Questions. <i>ACS Symposium Series</i> , 2008, , 101-133.	0.5	4
31	Using Soda Cans To Teach Physical Science Students about Density. <i>Journal of Chemical Education</i> , 2009, 86, 209.	2.3	4
32	Common student misconceptions in electrochemistry: Galvanic, electrolytic, and concentration cells. <i>Journal of Research in Science Teaching</i> , 1997, 34, 377-398.	3.3	3
33	Soda Can Density and Unexpected Results. <i>Journal of Chemical Education</i> , 2008, 85, 18.	2.3	2
34	Common student misconceptions in electrochemistry: Galvanic, electrolytic, and concentration cells. , 1997, 34, 377.		2
35	Flipping Pennies and Burning Candles: Adventures in Kinetics. <i>Journal of Chemical Education</i> , 2003, 80, 304A.	2.3	1
36	Do Students Learn Chemistry Content in Accelerated Summer Courses?. <i>ACS Symposium Series</i> , 2011, , 111-119.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Does the way charges and transferred electrons are depicted in an oxidation–reduction animation affect students’ explanations?. <i>Chemistry Education Research and Practice</i> , 2021, 22, 77-92.	2.5	1
38	Is Inquiry-Based Instruction Good for Elementary Teaching Majors? The Effects on Chemistry Content Knowledge and Views About Teaching and Learning Science. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0