

# George M Bodner

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

3,332  
citations

201674

27  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Constructivism: A theory of knowledge. <i>Journal of Chemical Education</i> , 1986, 63, 873.	2.3	636
2	The Purdue Visualization of Rotations Test. <i>The Chemical Educator</i> , 1997, 2, 1-17.	0.0	229
3	Factors Influencing the Self-Efficacy Beliefs of First-Year Engineering Students. <i>Journal of Engineering Education</i> , 2006, 95, 39-47.	3.0	208
4	"It Gets Me to the Product": How Students Propose Organic Mechanisms. <i>Journal of Chemical Education</i> , 2005, 82, 1402.	2.3	207
5	The beginning science teacher: Classroom narratives of convictions and constraints. <i>Journal of Research in Science Teaching</i> , 1992, 29, 471-485.	3.3	172
6	Spatial ability and its role in organic chemistry: A study of four organic courses. <i>Journal of Research in Science Teaching</i> , 1987, 24, 229-240.	3.3	167
7	The Many Forms of Constructivism. <i>Journal of Chemical Education</i> , 2001, 78, 1107.	2.3	166
8	A study of two measures of spatial ability as predictors of success in different levels of general chemistry. <i>Journal of Research in Science Teaching</i> , 1987, 24, 645-657.	3.3	137
9	Making sense of the arrow-pushing formalism among chemistry majors enrolled in organic chemistry. <i>Chemistry Education Research and Practice</i> , 2008, 9, 102-113.	2.5	130
10	What Does it Mean to Design? A Qualitative Investigation of Design Professionals' Experiences. <i>Journal of Engineering Education</i> , 2012, 101, 187-219.	3.0	126
11	Cognitive restructuring as an early stage in problem solving. <i>Journal of Research in Science Teaching</i> , 1986, 23, 727-737.	3.3	102
12	Providing a Voice: Qualitative Investigation of the Impact of a First-Year Engineering Experience on Students' Efficacy Beliefs. <i>Journal of Engineering Education</i> , 2008, 97, 177-190.	3.0	101
13	What can we do about "Parker"™? A case study of a good student who didn't "get"™ organic chemistry. <i>Chemistry Education Research and Practice</i> , 2008, 9, 93-101.	2.5	93
14	Sixth-Grade Students'™ Views of the Nature of Engineering and Images of Engineers. <i>Journal of Science Education and Technology</i> , 2011, 20, 123-135.	3.9	83
15	Contextual epistemic development in science: A comparison of chemistry students and research chemists. <i>Science Education</i> , 2006, 90, 468-495.	3.0	79
16	Non-mathematical problem solving in organic chemistry. <i>Journal of Research in Science Teaching</i> , 2010, 47, 643-660.	3.3	61
17	WHAT RESEARCH TELLS US ABOUT USING ANALOGIES TO TEACH CHEMISTRY. <i>Chemistry Education Research and Practice</i> , 2004, 5, 15-32.	2.5	59
18	An analysis of the effectiveness of analogy use in college-level biochemistry textbooks. <i>Journal of Research in Science Teaching</i> , 2006, 43, 1040-1060.	3.3	59

#	ARTICLE	IF	CITATIONS
19	The role of algorithms in teaching problem solving. <i>Journal of Chemical Education</i> , 1987, 64, 513.	2.3	58
20	Why changing the curriculum may not be enough. <i>Journal of Chemical Education</i> , 1992, 69, 186.	2.3	51
21	Using Students's™ Representations Constructed during Problem Solving To Infer Conceptual Understanding. <i>Journal of Chemical Education</i> , 2012, 89, 837-843.	2.3	39
22	Culturing reality: How organic chemistry graduate students develop into practitioners. <i>Journal of Research in Science Teaching</i> , 2014, 51, 694-713.	3.3	35
23	Students' perceptions of academic dishonesty in the chemistry classroom laboratory. <i>Journal of Research in Science Teaching</i> , 2004, 41, 47-64.	3.3	33
24	Finding fulfillment: women's self-efficacy beliefs and career choices in chemistry. <i>Chemistry Education Research and Practice</i> , 2011, 12, 420-426.	2.5	32
25	Problem-solving processes used by students in organic synthesis. <i>International Journal of Science Education</i> , 1991, 13, 143-158.	1.9	31
26	Locks and keys. <i>Biochemistry and Molecular Biology Education</i> , 2007, 35, 244-254.	1.2	31
27	Existence of a Problem-Solving Mindset among Students Taking Quantum Mechanics and Its Implications. <i>ACS Symposium Series</i> , 2007, , 155-173.	0.5	30
28	Instructors' Intended Learning Outcomes for Using Computational Simulations as Learning Tools. <i>Journal of Engineering Education</i> , 2012, 101, 220-243.	3.0	28
29	Twenty Years of Learning: How To Do Research in Chemical Education. 2003 George C. Pimentel Award. <i>Journal of Chemical Education</i> , 2004, 81, 618.	2.3	24
30	Introduction: Research and practice in chemical education in advanced courses. <i>Chemistry Education Research and Practice</i> , 2008, 9, 81-83.	2.5	18
31	Biochemistry instructors' perceptions of analogies and their classroom use. <i>Chemistry Education Research and Practice</i> , 2015, 16, 731-746.	2.5	16
32	What Happens When Discovery Laboratories Are Integrated into the Curriculum at a Large Research University?. <i>The Chemical Educator</i> , 1998, 3, 1-21.	0.0	15
33	A Review of Biochemistry Education Research. <i>Journal of Chemical Education</i> , 2020, 97, 2091-2103.	2.3	13
34	Chemical reactions: what understanding do students with blindness develop?. <i>Chemistry Education Research and Practice</i> , 2013, 14, 625-636.	2.5	9
35	Dishonesty in the biochemistry classroom laboratory: A synthesis of causes and prevention. <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 338-342.	1.2	7
36	Creation of an American Association of Chemistry Teachers. <i>Journal of Chemical Education</i> , 2014, 91, 3-5.	2.3	6

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37	The quadruple bottom line: the advantages of incorporating Green Chemistry into the undergraduate chemistry major. ChemistrySelect, 2017, 2, .	1.5	6
38	Strengthening conceptual connections in introductory chemistry courses. Chemistry Education Research and Practice, 2007, 8, 93-100.	2.5	5
39	CHEMiCALC (4000161) and CHEMiCALC Personal Tutor (4001108), Version 4.0 (Ramsay, O. Bertrand). Journal of Chemical Education, 1999, 76, 34.	2.3	4
40	Chemical education: Where we've been; where we are; where we're going. Journal of Chemical Education, 1984, 61, 843.	2.3	2
41	Factors that Influence Chemistry Students' Decisions to 'Drop Out' of Graduate School. The Chemical Educator, 1997, 1, 1-12.	0.0	2
42	SECONDARY SCIENCE TEACHERS' DEVELOPMENT OF PEDAGOGICAL CONTENT KNOWLEDGE AS RESULT OF INTEGRATING NANOSCIENCE CONTENT IN THEIR CURRICULUM. Cosmos, 2013, 08, 187-209.	0.4	2
43	Doing the Research that Informs Practice: A Retrospective View of One Group's Attempt to Study The Teaching and Learning of Organic Chemistry. Chemistry - an Asian Journal, 2017, 12, 1413-1420.	3.3	1
44	2. The quadruple bottom line: the advantages of incorporating Green Chemistry into the undergraduate chemistry major. , 2017, , .		1
45	Program for the Division of Chemical Education: Chicago, March 25-29, 2007. Journal of Chemical Education, 2007, 84, 394.	2.3	0
46	How To Avoid Common Mistakes When Searching for a Faculty Position. ACS Symposium Series, 2014, , 71-92.	0.5	0