Kent J Crippen

List of Publications by Year
in descending order

53 papers	1,758 citations	516710 16 h-index	289244 40 g-index
53 all docs	53 docs citations	53 times ranked	1250 citing authors

#	Article	IF	Citations
1	Promoting Self-Regulation in Science Education: Metacognition as Part of a Broader Perspective on Learning. Research in Science Education, 2006, 36, 111-139.	2.3	831
2	The impact of web-based worked examples and self-explanation on performance, problem solving, and self-efficacy. Computers and Education, 2007, 49, 809-821.	8.3	125
3	Scaffolded Inquiry-Based Instruction with Technology: A Signature Pedagogy for STEM Education. Computers in the Schools, 2012, 29, 157-173.	1.0	78
4	Kâ€“12 Distance Educators at Work. Journal of Research on Technology in Education, 2009, 41, 363-391.	6.5	77
5	Variation theory: A theory of learning and a useful theoretical framework for chemical education research. Chemistry Education Research and Practice, 2013, 14, 9-22.	2.5	52
6	Virtual Laboratories in Undergraduate Science and Engineering Courses: a Systematic Review, 2009â€“2019. Journal of Science Education and Technology, 2021, 30, 16-30.	3.9	48
7	Using an Interactive, Compensatory Model of Learning To Improve Chemistry Teaching. Journal of Chemical Education, 2005, 82, 637.	2.3	40
8	The Knowledge and Practices of High School Science Teachers in Pursuit of Cultural Responsiveness. Science Education, 2017, 101, 99-133.	3.0	39
9	The effects of feedback protocol on self-regulated learning in a web-based worked example learning environment. Computers and Education, 2010, 55, 1470-1482.	8.3	38
10	Designing for culturally responsive science education through professional development. International Journal of Science Education, 2016, 38, 470-492.	1.9	35
11	Argument as Professional Development: Impacting Teacher Knowledge and Beliefs About Science. Journal of Science Teacher Education, 2012, 23, 847-866.	2.5	34
12	Understanding Teachersâ€™ Conceptions of Classroom Inquiry With a Teaching Scenario Survey Instrument. Journal of Science Teacher Education, 2008, 19, 337-354.	2.5	33
13	The Interactive Effects of Personal Achievement Goals and Performance Feedback in an Undergraduate Science Class. Journal of Experimental Education, 2013, 81, 556-578.	2.6	33
14	Seeking Shared Practice: A Juxtaposition of the Attributes and Activities of Organized Fossil Groups with Those of Professional Paleontology. Journal of Science Education and Technology, 2016, 25, 731-746.	3.9	32
15	The varied experience of undergraduate students learning chemistry in virtual reality laboratories. Computers and Education, 2021, 175, 104320.	8.3	22
16	Applying cognitive theory to chemistry instruction: the case for worked examples. Chemistry Education Research and Practice, 2009, 10, 35-41.	2.5	18
17	Applying a Cognitive-Affective Model of Conceptual Change to Professional Development. Journal of Science Teacher Education, 2010, 21, 371-388.	2.5	17
18	Using professional development to achieve classroom reform and science proficiency: an urban success story from southern Nevada, USA. Professional Development in Education, 2010, 36, 637-661.	2.8	17

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19	Translating Current Science into Materials for High School via a Scientistâ€“Teacher Partnership. Journal of Science Teacher Education, 2014, 25, 239-262.	2.5	17
20	The Growing Awareness Inventory: Building Capacity for Culturally Responsive Science and Mathematics With a Structured Observation Protocol. School Science and Mathematics, 2016, 116, 127-138.	0.9	17
21	Teachersâ€™ barriers to introducing system dynamics in Kâ€12 STEM curriculum. System Dynamics Review, 2013, 29, 157-169.	1.9	14
22	Performance-Related Feedback: The Hallmark of Efficient Instruction. Journal of Chemical Education, 2005, 82, 641.	2.3	13
23	High School Studentsâ€™ Learning and Perceptions of Phylogenetics of Flowering Plants. CBE Life Sciences Education, 2014, 13, 653-665.	2.3	13
24	Designing for Collaborative Problem Solving in STEM Cyberlearning. Innovations in Science Education and Technology, 2018, , 89-116.	0.3	13
25	Scientific Twitter: The flow of paleontological communication across a topic network. PLoS ONE, 2019, 14, e0219688.	2.5	12
26	The Nature of Laboratory Learning Experiences in Secondary Science Online. Research in Science Education, 2013, 43, 1029-1050.	2.3	11
27	The Effect of Scaffolding Strategies for Inscriptions and Argumentation in a Science Cyberlearning Environment. Journal of Science Education and Technology, 2017, 26, 33-43.	3.9	10
28	Social Media Interaction as Informal Science Learning: a Comparison of Message Design in Two Niches. Research in Science Education, 2022, 52, 1-20.	2.3	10
29	Using Personal Digital Assistants in Clinical Supervision of Student Teachers. Journal of Science Education and Technology, 2000, 9, 207-211.	3.9	8
30	Time and Teaching. Journal of Chemical Education, 2001, 78, 714.	2.3	7
31	The Impact of Block Scheduling on Student Motivation and Classroom Practice in Mathematics. NASSP Bulletin, 2008, 92, 191-208.	0.7	7
32	Curriculum Carts and Collaboration: A Model for Training Secondary Science Teachers. Journal of Science Education and Technology, 2004, 13, 325-331.	3.9	6
33	A Web Site Supporting the AP Descriptive Chemistry Question. Journal of Chemical Education, 2000, 77, 1087.	2.3	4
34	Learning Difficult Content Using the Web: Strategies Make a Difference. Journal of Science Education and Technology, 2001, 10, 283-285.	3.9	3
35	Rethinking Course Assessment: Creating Accountability with Web-Based Tools. Journal of Science Education and Technology, 2003, 12, 431-438.	3.9	3
36	Science Education in Review: Response to the Secretaryâ€™s Summit of 2004. Journal of Science Education and Technology, 2005, 14, 143-145.	3.9	3

#	Article	IF	Citations
37	A design-based apprenticeship approach to transform freshman chemistry for engineering students. Qscience Proceedings, 2015, , .	0.0	3
38	Board 160: General Chemistry Laboratory as Situated Engineering Design. , 0, , .		3
39	The varied experience of undergraduate students during the transition to mandatory online chem lab during the initial lockdown of the COVID-19 pandemic. Disciplinary and Interdisciplinary Science Education Research, 2022, 4, .	2.9	3
40	Board 33: Persistence of First-year Engineering Majors with a Design-based Chemistry Laboratory Curriculum In- and Out-of-Sequence. , 0, , .		2
41	User experience and motivation with engineering design challenges in general chemistry laboratory. Innovation and Education, 2021, 3, .	0.6	2
42	An Exploration of Perceptions of Justice in a Career-Forward Undergraduate Chemistry Laboratory Course. Journal for STEM Education Research, 2022, 5, 102-125.	1.5	2
43	Modeling Nuclear Decay: A Point of Integration between Chemistry and Mathematics. Journal of Chemical Education, 1998, 75, 1434.	2.3	1
44	Developing Web-Based, Pedagogical Content Coursework for High School Chemistry Teachers. Journal of Chemical Education, 2007, 84, 1861.	2.3	1
45	Mental models and social media personas: a case of amateur palaeontologists. International Journal of Social Media and Interactive Learning Environments, 2018, 6, 44.	0.4	1
46	Teaching Advanced Placement Descriptive Chemistry: Suggestions from a Testing Web Site. The Chemical Educator, 2001, 6, 266-271.	0.0	0
47	The Utility of Interaction Analysis for Generalizing Characteristics of Science Classrooms. School Science and Mathematics, 2013, 113, 235-247.	0.9	0
48	Fossilâ€"A National Network of Fossil Clubs and Professional Paleontologists in the U.S.. The Paleontological Society Special Publications, 2014, 13, 128-128.	0.0	0
49	Profiles in Practice: Stories of Paleontology Within an Online, Scientific Community. International Journal of Science and Mathematics Education, 2021, 19, 915-933.	2.5	0
50	Designing and Delivering Technology Integration to Engage Students. Advances in Educational Marketing, Administration, and Leadership Book Series, 0, , 298-313.	0.2	0
51	Board 46: The Mentoring Network of K-5 Educators and Engineering Researchers in an RET. , 0, , .		0
52	Social Paleontology on Twitter: A Case Study of Topic Archetypes, Network Composition, and Structure. Social Media and Society, 2022, 8, 205630512210804.	3.0	0
53	A Pilot Study of Project-Based Learning in General Chemistry for Engineers. , 0, , .		0