Lin Ding

List of Publications by Year
in descending order

46	1,125	471509 17	414414 32
papers	citations	h-index	g-index

48	48	48	623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sequential and simultaneous synthesis problem solving: A comparison of studentsâ€™ gaze transitions. Physical Review Physics Education Research, 2021, 17, .	2.9	10
2	Using sequential synthesis problems to investigate novice teachersâ€™ conceptions of hydrodynamics. Physical Review Physics Education Research, 2021, 17, .	2.9	1
3	Construction and Evaluation of an Instrument to Measure High School Students Biological Content Knowledge. Eurasia Journal of Mathematics, Science and Technology Education, 2021, 17, em2048.	1.3	2
4	From Learning Capacitance to Making Capacitors: the Missing Critical Sensemaking. International Journal of Science and Mathematics Education, 2020, 19, 1357.	2.5	6
5	Changing Culture and Climate to Prevent Sexual Harassment in the Physics Educational Setting. Physics Teacher, 2020, 58, 352-355.	0.3	0
6	Theoretical perspectives of quantitative physics education research. Physical Review Physics Education Research, 2019, 15, .	2.9	21
7	Two-phase study examining perspectives and use of quantitative methods in physics education research. Physical Review Physics Education Research, 2019, 15, .	2.9	7
8	Progression Trend of Scientific Reasoning from Elementary School to University: a Large-Scale Cross-Grade Survey Among Chinese Students. International Journal of Science and Mathematics Education, 2018, 16, 1479-1498.	2.5	21
9	Peer Instruction in introductory physics: A method to bring about positive changes in studentsâ€™ attitudes and beliefs. Physical Review Physics Education Research, 2017, 113, .	2.9	5
10	Peer Instruction in introductory physics: A method to bring about positive changes in studentsâ€™ attitudes and beliefs. Physical Review Physics Education Research, 2017, 13, .	2.9	37
11	Studentsâ€™ conceptual performance on synthesis physics problems with varying mathematical complexity. Physical Review Physics Education Research, 2017, 13, .	2.9	12
12	What works with worked examples: Extending self-explanation and analogical comparison to synthesis problems. Physical Review Physics Education Research, 2017, 13, .	2.9	8
13	How students process equations in solving quantitative synthesis problems? Role of mathematical complexity in studentsâ€™ mathematical performance. Physical Review Physics Education Research, 2017, 13, .	2.9	9
14	Does Higher Education Improve Student Scientific Reasoning Skills?. International Journal of Science and Mathematics Education, 2016, 14, 619-634.	2.5	39
15	Scientific Reasoning: Theory Evidence Coordination in Physics-based and Non-physics-based Tasks. African Journal of Research in Mathematics, Science and Technology Education, 2016, 20, 93-105.	1.0	2
16	Variations in University Studentsâ€™ Scientific Reasoning Skills Across Majors, Years, and Types of Institutions. Research in Science Education, 2016, 46, 613-632.	2.3	22
17	Making of epistemologically sophisticated physics teachers: A cross-sequential study of epistemological progression from preservice to in-service teachers. Physical Review Physics Education Research, 2016, 12, .	2.9	13
18	How College-Level Introductory Instruction Can Impact Student Epistemological Beliefs. Journal of College Science Teaching, 2015, 044, .	0.4	11

#	Article	IF	Citations
19	Verification of causal influences of reasoning skills and epistemology on physics conceptual learning. Physical Review Physics Education Research, 2014, 10, .	1.7	42
20	Seeking missing pieces in science concept assessments: Reevaluating the Brief Electricity and Magnetism Assessment through Rasch analysis. Physical Review Physics Education Research, 2014, 10, .	1.7	26
21	Uncovering the hidden meaning of cross-curriculum comparison results on the Force Concept Inventory. Physical Review Physics Education Research, 2014, 10, .	1.7	8
22	LONG LIVE TRADITIONAL TEXTBOOK PROBLEMS!?â€"CONSTRAINTS ON FACULTY USE OF RESEARCH-BASED PROBLEMS IN INTRODUCTORY COURSES. International Journal of Science and Mathematics Education, 2014, 12, 123-144.	2.5	7
23	Large-scale survey of Chinese precollege studentsâ€™ epistemological beliefs about physics: A progression or a regression?. Physical Review Physics Education Research, 2013, 9, .	1.7	20
24	Establishing reliability and validity: An ongoing process. AIP Conference Proceedings, 2013, , .	0.4	4
25	A comparative study of middle school and high school studentsâ€™ views about physics and learning physics. , 2013, , .		2
26	How do students in an innovative principleâ€based mechanics course understand energy concepts?. Journal of Research in Science Teaching, 2013, 50, 722-747.	3.3	34
27	Applying Rasch theory to evaluate the construct validity of brief electricity and magnetism assessment. AIP Conference Proceedings, 2012, , .	0.4	5
28	Exploring the role of conceptual scaffolding in solving synthesis problems. Physical Review Physics Education Research, 2011, 7, .	1.7	34
29	Single-Concept Clicker Question Sequences. Physics Teacher, 2011, 49, 385-389.	0.3	14
30	Sustained Effects of Solving Conceptually Scaffolded Synthesis Problems. , 2010, , .		8
31	Are we asking the right questions? Validating clicker question sequences by student interviews. American Journal of Physics, 2009, 77, 643-650.	0.7	25
32	Learning of content knowledge and development of scientific reasoning ability: A cross culture comparison. American Journal of Physics, 2009, 77, 1118-1123.	0.7	21
33	Tale of two curricula: The performance of 2000 students in introductory electromagnetism. Physical Review Physics Education Research, 2009, 5, .	1.7	39
34	Using Conceptual Scaffolding to Foster Effective Problem Solving. , 2009, , .		10
35	Learning and Scientific Reasoning. Science, 2009, 323, 586-587.	12.6	163
36	Approaches to data analysis of multiple-choice questions. Physical Review Physics Education Research, 2009, 5, .	1.7	164

#	Article	IF	Citations
37	Effects of testing conditions on conceptual survey results. Physical Review Physics Education Research, 2008, 4, .	1.7	22
38	Evaluating an electricity and magnetism assessment tool: Brief electricity and magnetism assessment. Physical Review Physics Education Research, 2006, 2, .	1.7	247
39	Synthesis problems: role of mathematical complexity in students' problem solving strategies. , 0, , .		1
40	Detecting Progression of Scientific Reasoning among University Science and Engineering Students. , 0, , .		0
41	Sensitivity of Learning Gains on the Force Concept Inventory to Studentsâ€™ Individual Epistemological Changes. , 0, , .		0
42	Bottlenecks in Solving Synthesis Problems. , 0, , .		0
43	Applying analogical reasoning to introductory-level synthesis problems. , 0, , .		0
44	Representational Use on a Lab Question by Modeling Workshop Participants. , 0, , .		1
45	Student Mental Models about Conductors and Dielectrics. , 0, , .		0
46	How Freshmen Generate Evidence for Reasoning in Physics and Non-physics Tasks?. , 0, , .		0