Andrew A Tawfik

List of Publications by Year
in descending order

47 papers	661 citations	687363 13 h-index	642732 23 g-index
49 all docs	49 docs citations	49 times ranked	452 citing authors

#	Article	IF	Citations
1	Different approaches to collaborative problem solving between successful versus less successful problem solvers: Tracking changes of knowledge structure. Journal of Research on Technology in Education, 2023, 55, 628-645.	6.5	4
2	Toward a Definition of Learning Experience Design. Technology, Knowledge and Learning, 2022, 27, 309-334.	4.9	17
3	From Singular Design to Differentiation: A History of Adaptive Systems. TechTrends, 2022, 66, 131-133.	2.3	1
4	Micro-Credentials and Badges in Education: a Historical Overview. TechTrends, 2021, 65, 5-7.	2.3	13
5	How Perspectives of a System Change Based on Exposure to Positive or Negative Evidence. Systems, 2021, 9, 23.	2.3	8
6	How K-12 Teachers Adapt Problem-Based Learning Over Time. Interdisciplinary Journal of Problem-based Learning, 2021, 15, .	0.5	3
7	First and Second Order Barriers to Teaching in K-12 Online Learning. TechTrends, 2021, 65, 925-938.	2.3	21
8	Datawhys Phase 1: Problem Solving to Facilitate Data Science & STEM Learning Among Summer Interns. International Journal of Designs for Learning, 2021, 12, 102-117.	0.2	0
9	Designing for Self-Efficacy: E-Mentoring Training for Ethnic and Racial Minority Women in STEM. International Journal of Designs for Learning, 2021, 12, 71-85.	0.2	0
10	Investigating the depth of problem-solving prompts in collaborative argumentation. Innovations in Education and Teaching International, 2021, 58, 533-544.	2.5	6
11	Supporting Project-Based Learning Through the Virtual Internship Author (VIA). Technology, Knowledge and Learning, 2020, 25, 433-442.	4.9	0
12	Guardrails to Constructing Learning: the Potential of Open Microcredentials to Support Inquiry-Based Learning. TechTrends, 2020, 64, 828-838.	2.3	10
13	Role of conjecture mapping in applying a game-based strategy towards a case library: a view from educational design research. Journal of Computing in Higher Education, 2020, 32, 655-681.	6.1	4
14	Detecting the Depth and Progression of Learning in Massive Open Online Courses by Mining Discussion Data. Technology, Knowledge and Learning, 2020, 25, 881-898.	4.9	12
15	Role of questions in inquiry-based instruction: towards a design taxonomy for question-asking and implications for design. Educational Technology Research and Development, 2020, 68, 653-678.	2.8	17
16	Effects of case library recommendation system on problem solving and knowledge structure development. Educational Technology Research and Development, 2020, 68, 1329-1353.	2.8	13
17	Comparing How Different Inquiry-based Approaches Impact Learning Outcomes. Interdisciplinary Journal of Problem-based Learning, 2020, 14, .	0.5	9
18	Reducing the Gap Between the Conceptual Models of Students and Experts Using Graph-Based Adaptive Instructional Systems. Lecture Notes in Computer Science, 2020, , 538-556.	1.3	9

#	Article	IF	Citations
19	Supporting Case-Based Reasoning in Pharmacy Through Case Sequencing. Journal of Formative Design in Learning, 2019, 3, 111-122.	1.1	0
20	Learning Analytics to Support Teachers' Assessment of Problem Solving: A Novel Application for Machine Learning and Graph Algorithms. , 2019, , 175-199.		18
21	How Success Versus Failure Cases Support Knowledge Construction in Collaborative Problem-Solving. Journal of Educational Computing Research, 2019, 57, 1376-1399.	5.5	6
22	How Novices Use Expert Case Libraries for Problem Solving. Technology, Knowledge and Learning, 2019, 24, 23-40.	4.9	9
23	Overcoming the PBL Assessment Challenge: Design and Development of the Incremental Thesaurus for Assessing Causal Maps (ITACM). Technology, Knowledge and Learning, 2019, 24, 161-168.	4.9	11
24	The effect of sustained vs. faded scaffolding on students' argumentation in ill-structured problem solving. Computers in Human Behavior, 2018, 87, 436-449.	8.5	44
25	Using a Recommendation System to Support Problem Solving and Case-Based Reasoning Retrieval. Technology, Knowledge and Learning, 2018, 23, 177-187.	4.9	3
26	Effects of success v failure cases on learner-learner interaction. Computers and Education, 2018, 118, 120-132.	8.3	24
27	An Online Environment to Compare Students' and Expert Solutions to Ill-Structured Problems. Lecture Notes in Computer Science, 2018, , 286-307.	1.3	12
28	Revisiting the Historical Roots of Task Analysis in Instructional Design. TechTrends, 2018, 62, 319-320.	2.3	2
29	Stories as Decision Scaffolds: Understanding Nonlinear Storytelling Using Case-Based Reasoning and Educational Design Research. , 2018, , 21-38.		1
30	Using Analytics to Transform a Problem-Based Case Library: An Educational Design Research Approach. Interdisciplinary Journal of Problem-based Learning, 2018, 12, .	0.5	4
31	The nature and level of learner–learner interaction in a chemistry massive open online course (MOOC). Journal of Computing in Higher Education, 2017, 29, 411-431.	6.1	66
32	Do cases teach themselves? A comparison of case library prompts in supporting problem-solving during argumentation. Journal of Computing in Higher Education, 2017, 29, 267-285.	6.1	22
33	What's in It for Me? Incentives, Learning, and Completion in Massive Open Online Courses. Journal of Research on Technology in Education, 2017, 49, 245-259.	6.5	9
34	Mobile, but Are We Better? Understanding Teacher's Perception of a Mobile Technology Integration Using the Unified Theory of Acceptance and Use of Technology (UTAUT) Framework. Journal of Formative Design in Learning, 2017, 1, 73-83.	1.1	5
35	Intended and Unintended Consequences of Educational Technology on Social Inequality. TechTrends, 2016, 60, 598-605.	2.3	26
36	Systematizing Scaffolding for Problem-Based Learning: A View from Case-Based Reasoning. Interdisciplinary Journal of Problem-based Learning, 2016, 10, .	0.5	47

#	ARTICLE	IF	CITATIONS
37	Failing to learn: towards a unified design approach for failure-based learning. Educational Technology Research and Development, 2015, 63, 975-994.	2.8	44
38	Using a Flipped Classroom Approach to Support Problem-Based Learning. Technology, Knowledge and Learning, 2015, 20, 299-315.	4.9	44
39	Effects of Case Libraries in Supporting a Problem-Based Learning STEM Course. Journal of Educational Technology Systems, 2015, 44, 5-21.	5.8	3
40	â€œI Don't Have Time to Dig Back Through Thisâ€• The Role of Semantic Search in Supporting Physician Information Seeking in an Electronic Health Record. Performance Improvement Quarterly, 2014, 26, 75-91.	1.0	6
41	The Effects of Case Libraries in Supporting Collaborative Problem-Solving in an Online Learning Environment. Technology, Knowledge and Learning, 2014, 19, 337-358.	4.9	15
42	The effects of successful versus failure-based cases on argumentation while solving decision-making problems. Educational Technology Research and Development, 2013, 61, 385-406.	2.8	45
43	Designing a PBL Environment Using the 3C3R Method. International Journal of Designs for Learning, 2013, 4, .	0.2	3
44	Why Do We Fall? Using Experiences of Failure to Design Case Libraries. International Journal of Designs for Learning, 2012, 3, .	0.2	6
45	â€œI Know This is Supposed to be More Like the Real World, But . . .â€• Student Perceptions of a PBL Implementation in an Undergraduate Materials Science Course. Interdisciplinary Journal of Problem-based Learning, 2012, 6, .	0.5	24
46	Using semantic search to reduce cognitive load in an electronic health record. , 2011, , .		11
47	Exploring the Differences Between Experts and Novices on Inquiry-Based Learning Cases. Journal of Formative Design in Learning, 0, , 1.	1.1	0