

# Andrew A Tawfik

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6784675/publications.pdf>

Version: 2024-02-01

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	The nature and level of learner-learner interaction in a chemistry massive open online course (MOOC). <i>Journal of Computing in Higher Education</i> , 2017, 29, 411-431.	6.1	66
2	Systematizing Scaffolding for Problem-Based Learning: A View from Case-Based Reasoning. <i>Interdisciplinary Journal of Problem-based Learning</i> , 2016, 10, .	0.5	47
3	The effects of successful versus failure-based cases on argumentation while solving decision-making problems. <i>Educational Technology Research and Development</i> , 2013, 61, 385-406.	2.8	45
4	Failing to learn: towards a unified design approach for failure-based learning. <i>Educational Technology Research and Development</i> , 2015, 63, 975-994.	2.8	44
5	Using a Flipped Classroom Approach to Support Problem-Based Learning. <i>Technology, Knowledge and Learning</i> , 2015, 20, 299-315.	4.9	44
6	The effect of sustained vs. faded scaffolding on students' argumentation in ill-structured problem solving. <i>Computers in Human Behavior</i> , 2018, 87, 436-449.	8.5	44
7	Intended and Unintended Consequences of Educational Technology on Social Inequality. <i>TechTrends</i> , 2016, 60, 598-605.	2.3	26
8	Effects of success v failure cases on learner-learner interaction. <i>Computers and Education</i> , 2018, 118, 120-132.	8.3	24
9	“I Know This is Supposed to be More Like the Real World, But . . .” Student Perceptions of a PBL Implementation in an Undergraduate Materials Science Course. <i>Interdisciplinary Journal of Problem-based Learning</i> , 2012, 6, .	0.5	24
10	Do cases teach themselves? A comparison of case library prompts in supporting problem-solving during argumentation. <i>Journal of Computing in Higher Education</i> , 2017, 29, 267-285.	6.1	22
11	First and Second Order Barriers to Teaching in K-12 Online Learning. <i>TechTrends</i> , 2021, 65, 925-938.	2.3	21
12	Learning Analytics to Support Teachers' Assessment of Problem Solving: A Novel Application for Machine Learning and Graph Algorithms. , 2019, , 175-199.		18
13	Role of questions in inquiry-based instruction: towards a design taxonomy for question-asking and implications for design. <i>Educational Technology Research and Development</i> , 2020, 68, 653-678.	2.8	17
14	Toward a Definition of Learning Experience Design. <i>Technology, Knowledge and Learning</i> , 2022, 27, 309-334.	4.9	17
15	The Effects of Case Libraries in Supporting Collaborative Problem-Solving in an Online Learning Environment. <i>Technology, Knowledge and Learning</i> , 2014, 19, 337-358.	4.9	15
16	Effects of case library recommendation system on problem solving and knowledge structure development. <i>Educational Technology Research and Development</i> , 2020, 68, 1329-1353.	2.8	13
17	Micro-Credentials and Badges in Education: a Historical Overview. <i>TechTrends</i> , 2021, 65, 5-7.	2.3	13
18	An Online Environment to Compare Students' and Expert Solutions to Ill-Structured Problems. <i>Lecture Notes in Computer Science</i> , 2018, , 286-307.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Detecting the Depth and Progression of Learning in Massive Open Online Courses by Mining Discussion Data. <i>Technology, Knowledge and Learning</i> , 2020, 25, 881-898.	4.9	12
20	Using semantic search to reduce cognitive load in an electronic health record. , 2011, , .		11
21	Overcoming the PBL Assessment Challenge: Design and Development of the Incremental Thesaurus for Assessing Causal Maps (ITACM). <i>Technology, Knowledge and Learning</i> , 2019, 24, 161-168.	4.9	11
22	Guardrails to Constructing Learning: the Potential of Open Microcredentials to Support Inquiry-Based Learning. <i>TechTrends</i> , 2020, 64, 828-838.	2.3	10
23	What's in It for Me? Incentives, Learning, and Completion in Massive Open Online Courses. <i>Journal of Research on Technology in Education</i> , 2017, 49, 245-259.	6.5	9
24	How Novices Use Expert Case Libraries for Problem Solving. <i>Technology, Knowledge and Learning</i> , 2019, 24, 23-40.	4.9	9
25	Comparing How Different Inquiry-based Approaches Impact Learning Outcomes. <i>Interdisciplinary Journal of Problem-based Learning</i> , 2020, 14, .	0.5	9
26	Reducing the Gap Between the Conceptual Models of Students and Experts Using Graph-Based Adaptive Instructional Systems. <i>Lecture Notes in Computer Science</i> , 2020, , 538-556.	1.3	9
27	How Perspectives of a System Change Based on Exposure to Positive or Negative Evidence. <i>Systems</i> , 2021, 9, 23.	2.3	8
28	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. <i>Performance Improvement Quarterly</i> , 2014, 26, 75-91.	1.0	6
29	How Success Versus Failure Cases Support Knowledge Construction in Collaborative Problem-Solving. <i>Journal of Educational Computing Research</i> , 2019, 57, 1376-1399.	5.5	6
30	Why Do We Fall? Using Experiences of Failure to Design Case Libraries. <i>International Journal of Designs for Learning</i> , 2012, 3, .	0.2	6
31	Investigating the depth of problem-solving prompts in collaborative argumentation. <i>Innovations in Education and Teaching International</i> , 2021, 58, 533-544.	2.5	6
32	Mobile, but Are We Better? Understanding Teacherâ€™s Perception of a Mobile Technology Integration Using the Unified Theory of Acceptance and Use of Technology (UTAUT) Framework. <i>Journal of Formative Design in Learning</i> , 2017, 1, 73-83.	1.1	5
33	Role of conjecture mapping in applying a game-based strategy towards a case library: a view from educational design research. <i>Journal of Computing in Higher Education</i> , 2020, 32, 655-681.	6.1	4
34	Using Analytics to Transform a Problem-Based Case Library: An Educational Design Research Approach. <i>Interdisciplinary Journal of Problem-based Learning</i> , 2018, 12, .	0.5	4
35	Different approaches to collaborative problem solving between successful versus less successful problem solvers: Tracking changes of knowledge structure. <i>Journal of Research on Technology in Education</i> , 2023, 55, 628-645.	6.5	4
36	Effects of Case Libraries in Supporting a Problem-Based Learning STEM Course. <i>Journal of Educational Technology Systems</i> , 2015, 44, 5-21.	5.8	3

#	ARTICLE	IF	CITATIONS
37	Using a Recommendation System to Support Problem Solving and Case-Based Reasoning Retrieval. Technology, Knowledge and Learning, 2018, 23, 177-187.	4.9	3
38	How K-12 Teachers Adapt Problem-Based Learning Over Time. Interdisciplinary Journal of Problem-based Learning, 2021, 15, .	0.5	3
39	Designing a PBL Environment Using the 3C3R Method. International Journal of Designs for Learning, 2013, 4, .	0.2	3
40	Revisiting the Historical Roots of Task Analysis in Instructional Design. TechTrends, 2018, 62, 319-320.	2.3	2
41	Stories as Decision Scaffolds: Understanding Nonlinear Storytelling Using Case-Based Reasoning and Educational Design Research. , 2018, , 21-38.		1
42	From Singular Design to Differentiation: A History of Adaptive Systems. TechTrends, 2022, 66, 131-133.	2.3	1
43	Supporting Case-Based Reasoning in Pharmacy Through Case Sequencing. Journal of Formative Design in Learning, 2019, 3, 111-122.	1.1	0
44	Supporting Project-Based Learning Through the Virtual Internship Author (VIA). Technology, Knowledge and Learning, 2020, 25, 433-442.	4.9	0
45	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
46	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
47	Exploring the Differences Between Experts and Novices on Inquiry-Based Learning Cases. Journal of Formative Design in Learning, 0, , 1.	1.1	0