Aman Yadav

List of Publications by Year
in descending order

86 papers	3,378 citations	361413 20 h-index	233421 45 g-index
87 all docs	87 docs citations	87 times ranked	1635 citing authors

#	Article	IF	Citations
1	Computational Thinking and Metacognition. TechTrends, 2022, 66, 405-411.	2.3	12
2	POGIL in CS1: Evidence for Student Learning and Belonging. , 2022, , .		10
3	Advancing Opportunities for CS Teachers. , 2022, , .		2
4	Breaking the Code: Confronting Racism in Computer Science through Community, Criticality, and Citizenship. TechTrends, 2022, 66, 450-458.	2.3	9
5	Introduction: Computational thinking in preK-5. , 2022, , .		2
6	Professional Development and Support for POGIL in Computer Science. , 2022, , .		3
7	Who Belongs in Computer Science?. , 2022, , .		6
8	Toward justice in computer science through community, criticality, and citizenship. Communications of the ACM, 2022, 65, 42-44.	4.5	12
9	Models for Computer Science Teacher Preparation. , 2022, , .		0
10	Teaching in an open village: a case study on culturally responsive computing in compulsory education. Computer Science Education, 2021, 31, 462-488.	3.7	19
11	Preparing Special Education Preservice Teachers to Teach Computational Thinking and Computer Science in Mathematics. Teacher Education and Special Education, 2021, 44, 221-238.	2.6	8
12	Preparing Teachers for Computational Thinking Integration in K-12. , 2021, , .		2
13	Self-efficacy Profiles for Computer Science Teachers. , 2021, , .		5
14	Measuring Students' Sense of Belonging in Introductory CS Courses. , 2021, , .		32
15	Collaborative Learning, Self-Efficacy, and Student Performance in CS1 POGIL. , 2021, , .		21
16	Transitioning to remote learning: Lessons from supporting Kâ€12 teachers through a MOOC. British Journal of Educational Technology, 2021, 52, 1377-1393.	6.3	28
17	Self-evaluation Interventions: Impact on Self-efficacy and Performance in Introductory Programming. ACM Transactions on Computing Education, 2021, 21, 1-28.	3.5	6
18	Teacher Views on Computational Thinking as a Pathway to Computer Science. , 2021, , .		4

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19	Culturally Responsive Debugging: a Method to Support Cultural Expertsâ€™ Early Engagement with Code. TechTrends, 2021, 65, 771-784.	2.3	3
20	Professorial Advancement Initiative: A Cross-Institutional Collaboration to Increase Faculty Diversity in STEM. Frontiers in Psychology, 2021, 12, 733173.	2.1	0
21	Computational thinking in elementary classrooms: Using classroom dialogue to measure equitable participation. , 2021, , .		0
22	Teachersâ€™ Perceptions of Student Misconceptions in Introductory Programming. Journal of Educational Computing Research, 2020, 58, 364-397.	5.5	21
23	Unplugged Approaches to Computational Thinking: a Historical Perspective. TechTrends, 2020, 64, 29-36.	2.3	73
24	The Forgotten Scholar: Underrepresented Minority Postdoc Experiences in STEM Fields. Educational Studies - AESA, 2020, 56, 160-185.	0.9	25
25	Providing Access and Opportunity for Computational Thinking and Computer Science to Support Mathematics for Students With Disabilities. Journal of Special Education Technology, 2020, , 016264342097856.	2.2	9
26	Smart Learning. Applied Sciences (Switzerland), 2020, 10, 6964.	2.5	10
27	Applying Levels of Abstraction to Mathematics Word Problems. TechTrends, 2020, 64, 395-403.	2.3	9
28	Teacher implementation profiles for integrating computational thinking into elementary mathematics and science instruction. Education and Information Technologies, 2020, 25, 3161-3188.	5.7	44
29	Computing and community in formal education. Communications of the ACM, 2020, 63, 18-21.	4.5	12
30	Integrating Computing into K-16 Education. , 2020, , .		0
31	Integrating Computing and Computational Thinking into K-12 STEM Learning. , 2020, , .		11
32	Self-Regulation for High School Learners in a MOOC Computer Science Course. , 2020, , .		7
33	Evaluation and assessment for improving CS teacher effectiveness. ACM Inroads, 2020, 11, 35-41.	0.6	4
34	Taking the next step: supporting postdocs to develop an independent path in academia. International Journal of STEM Education, 2019, 6, .	5.0	21
35	Computer Science Pedagogical Content Knowledge. ACM Transactions on Computing Education, 2019, 19, 1-24.	3.5	31
36	POGIL in Computer Science. , 2019, , .		5

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37	Equitable Learning Environments in K-12 Computing. ACM Transactions on Computing Education, 2019, 19, 1-16.	3.5	26
38	Computer Science Educators Stack Exchange. , 2019, , .		8
39	Motivation, Attitudes, and Dispositions. , 2019, , 801-826.		15
40	Teaching Media and Information Literacy in the 21st Century. Advances in Library and Information Science, 2019, , 77-89.	0.2	0
41	Who Needs What: Recommendations for Designing Effective Online Professional Development for Computer Science Teachers. Journal of Research on Technology in Education, 2018, 50, 164-181.	6.5	48
42	Approach to Non-Intrusive Load Monitoring using Factorial Hidden Markov Model. , 2018, , .		14
43	Computational thinking in elementary classrooms: measuring teacher understanding of computational ideas for teaching science. Computer Science Education, 2018, 28, 371-400.	3.7	53
44	Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer International Handbooks of Education, 2018, , 89-106.	0.1	8
45	Local Classrooms, Global Technologies: Toward the Integration of Sociotechnical Macroethical Issues Into Teacher Education. Bulletin of Science, Technology and Society, 2018, 38, 13-22.	2.9	2
46	Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer International Handbooks of Education, 2018, , 1-18.	0.1	0
47	Computational Thinking in K-12: In-service Teacher Perceptions of Computational Thinking. , 2018, , 151-164.		43
48	Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer International Handbooks of Education, 2018, , 1-18.	0.1	2
49	Teaching Media and Information Literacy in the 21st Century. , 2018, , 2292-2302.		0
50	Computational Thinking in Teacher Education. , 2017, , 205-220.		95
51	Computational thinking for teacher education. Communications of the ACM, 2017, 60, 55-62.	4.5	154
52	Students' Emotional Reactions to Programming Projects in Introduction to Programming. , 2017, , .		71
53	Effects of multimedia story reading and questioning on preschoolersâ€™ vocabulary learning, story comprehension and reading engagement. Educational Technology Research and Development, 2017, 65, 1523-1545.	2.8	49
54	Computer Science Teacher Professional Development. , 2017, , .		5

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55	Computational Thinking as an Emerging Competence Domain. Technical and Vocational Education and Training, 2017, , 1051-1067.	0.4	46
56	Fostering creativity through computing. Communications of the ACM, 2017, 60, 31-33.	4.5	26
57	Expanding computer science education in schools: understanding teacher experiences and challenges. Computer Science Education, 2016, 26, 235-254.	3.7	169
58	Learning to Program. , 2016, , .		123
59	Methodological Rigor and Theoretical Foundations of CS Education Research. , 2016, , .		63
60	Results from a Survey of Faculty Adoption of Process Oriented Guided Inquiry Learning (POGIL) in Computer Science. , 2016, , .		59
61	Measuring computer science pedagogical content knowledge. , 2016, , .		18
62	Exploring Lightweight Teams in a Distributed Learning Environment. , 2016, , .		15
63	Case-Based Instruction in STEM: Analysis of Student Confidence. , 2016, , .		0
64	Computational Thinking for All: Pedagogical Approaches to Embedding 21st Century Problem Solving in K-12 Classrooms. TechTrends, 2016, 60, 565-568.	2.3	244
65	Computational Thinking and Media & Information Literacy: An Integrated Approach to Teaching Twenty-First Century Skills. TechTrends, 2016, 60, 510-516.	2.3	96
66	The Influence of Problem Solving Abilities on Students' Performance on Different Assessment Tasks in CS1. , 2016, , .		29
67	Challenges of a Computer Science Classroom. , 2015, , .		14
68	Computational thinking in compulsory education: Towards an agenda for research and practice. Education and Information Technologies, 2015, 20, 715-728.	5.7	357
69	Learning in Distributed Low-Stakes Teams. , 2015, , .		5
70	Case Studies in Engineering. , 2014, , 161-180.		16
71	Computational Thinking in Elementary and Secondary Teacher Education. ACM Transactions on Computing Education, 2014, 14, 1-16.	3.5	314
72	Caseâ€based instruction: Improving students' conceptual understanding through cases in a mechanical engineering course. Journal of Research in Science Teaching, 2014, 51, 659-677.	3.3	38

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73	Integration of Tobacco Control in Masters of Public Health Curricula of India. Asian Pacific Journal of Cancer Prevention, 2014, 15, 5611-5615.	1.2	5
74	Risks and uncertainties in virtual worlds: an educatorsâ€™ perspective. Journal of Computing in Higher Education, 2013, 25, 49-67.	6.1	9
75	Learning to teach computer science. Communications of the ACM, 2012, 55, 31-33.	4.5	21
76	Problemâ€based Learning: Influence on Students' Learning in an Electrical Engineering Course. Journal of Engineering Education, 2011, 100, 253-280.	3.0	250
77	If a picture is worth a thousand words is video worth a million? Differences in affective and cognitive processing of video and text cases. Journal of Computing in Higher Education, 2011, 23, 15-37.	6.1	71
78	Introducing computational thinking in education courses. , 2011, , .		150
79	Does context matter? Engineering students' approaches to global vs. local problems. , 2010, , .		1
80	Lessons Learned: Implementing the Case Teaching Method in a Mechanical Engineering Course. Journal of Engineering Education, 2010, 99, 55-69.	3.0	105
81	Implementing Case Studies in a Plant Pathology Course: Impact on Student Learning and Engagement. Journal of Natural Resources and Life Sciences Education, 2009, 38, 50-55.	0.2	21
82	Instructing special education preâ€service teachers through literacy video cases. Teaching Education, 2009, 20, 149-162.	1.3	14
83	Enhancing creativity in synthetic biology with Interactive Virtual Environments. , 2009, , .		7
84	Work in progress - assessing the engineering curriculum through Bloom’s Taxonomy. , 2008, , .		2
85	What Works for Them? Preservice Teachers' Perceptions of Their Learning from Video Cases. Action in Teacher Education, 2008, 29, 27-38.	0.7	15
86	Using Hypermedia for Learning Complex Concepts in Chemistry: A Qualitative Study on the Relationship Between Prior Knowledge, Beliefs, and Motivation. Education and Information Technologies, 2006, 11, 33-69.	5.7	13