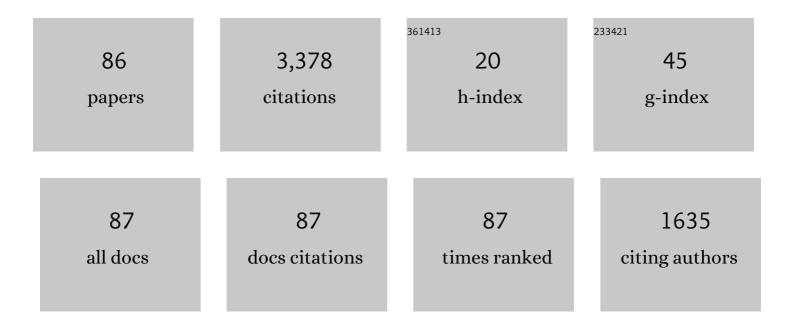
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9214971/publications.pdf Version: 2024-02-01



ΔΜΑΝ ΥΛΠΑΝ

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Computational thinking in compulsory education: Towards an agenda for research and practice.<br>Education and Information Technologies, 2015, 20, 715-728.  | 5.7 | 357       |
| 2  | Computational Thinking in Elementary and Secondary Teacher Education. ACM Transactions on Computing Education, 2014, 14, 1-16.  | 3.5 | 314       |
| 3  | Problemâ€based Learning: Influence on Students' Learning in an Electrical Engineering Course. Journal of Engineering Education, 2011, 100, 253-280.   | 3.0 | 250       |
| 4  | Computational Thinking for All: Pedagogical Approaches to Embedding 21st Century Problem Solving in K-12 Classrooms. TechTrends, 2016, 60, 565-568.   | 2.3 | 244       |
| 5  | Expanding computer science education in schools: understanding teacher experiences and challenges.<br>Computer Science Education, 2016, 26, 235-254.  | 3.7 | 169       |
| 6  | Computational thinking for teacher education. Communications of the ACM, 2017, 60, 55-62.   | 4.5 | 154       |
| 7  | Introducing computational thinking in education courses. , 2011, , .  |     | 150       |
| 8  | Learning to Program. , 2016, , .  |     | 123       |
| 9  | Lessons Learned: Implementing the Case Teaching Method in a Mechanical Engineering Course. Journal of Engineering Education, 2010, 99, 55-69.   | 3.0 | 105       |
| 10 | Computational Thinking and Media & Information Literacy: An Integrated Approach to Teaching<br>Twenty-First Century Skills. TechTrends, 2016, 60, 510-516.  | 2.3 | 96        |
| 11 | Computational Thinking in Teacher Education. , 2017, , 205-220.   |     | 95        |
| 12 | Unplugged Approaches to Computational Thinking: a Historical Perspective. TechTrends, 2020, 64, 29-36.  | 2.3 | 73        |
| 13 | 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        |
| 14 | Students' Emotional Reactions to Programming Projects in Introduction to Programming. , 2017, , .   |     | 71        |
| 15 | Methodological Rigor and Theoretical Foundations of CS Education Research. , 2016, , .  |     | 63        |
| 16 | Results from a Survey of Faculty Adoption of Process Oriented Guided Inquiry Learning (POGIL) in Computer Science. , 2016, , .  |     | 59        |
| 17 | Computational thinking in elementary classrooms: measuring teacher understanding of computational ideas for teaching science. Computer Science Education, 2018, 28, 371-400.                                      | 3.7 | 53        |
| 18 | Effects of multimedia story reading and questioning on preschoolers' vocabulary learning, story<br>comprehension and reading engagement. Educational Technology Research and Development, 2017, 65,<br>1523-1545. | 2.8 | 49        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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        |
| 20 | Computational Thinking as an Emerging Competence Domain. Technical and Vocational Education and Training, 2017, , 1051-1067.  | 0.4 | 46        |
| 21 | Teacher implementation profiles for integrating computational thinking into elementary mathematics and science instruction. Education and Information Technologies, 2020, 25, 3161-3188.  | 5.7 | 44        |
| 22 | Computational Thinking in K-12: In-service Teacher Perceptions of Computational Thinking. , 2018, ,<br>151-164.   |     | 43        |
| 23 | 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        |
| 24 | Measuring Students' Sense of Belonging in Introductory CS Courses. , 2021, , .  |     | 32        |
| 25 | Computer Science Pedagogical Content Knowledge. ACM Transactions on Computing Education, 2019, 19, 1-24.  | 3.5 | 31        |
| 26 | The Influence of Problem Solving Abilities on Students' Performance on Different Assessment Tasks in CS1. , 2016, , .   |     | 29        |
| 27 | Transitioning to remote learning: Lessons from supporting Kâ€12 teachers through a MOOC. British<br>Journal of Educational Technology, 2021, 52, 1377-1393.                               | 6.3 | 28        |
| 28 | Equitable Learning Environments in K-12 Computing. ACM Transactions on Computing Education, 2019, 19, 1-16.   | 3.5 | 26        |
| 29 | Fostering creativity through computing. Communications of the ACM, 2017, 60, 31-33.   | 4.5 | 26        |
| 30 | The Forgotten Scholar: Underrepresented Minority Postdoc Experiences in STEM Fields. Educational<br>Studies - AESA, 2020, 56, 160-185.  | 0.9 | 25        |
| 31 | Implementing Case Studies in a Plant Pathology Course: Impact on Student Learning and Engagement.<br>Journal of Natural Resources and Life Sciences Education, 2009, 38, 50-55.           | 0.2 | 21        |
| 32 | Learning to teach computer science. Communications of the ACM, 2012, 55, 31-33.   | 4.5 | 21        |
| 33 | Taking the next step: supporting postdocs to develop an independent path in academia. International<br>Journal of STEM Education, 2019, 6, .  | 5.0 | 21        |
| 34 | Teachers' Perceptions of Student Misconceptions in Introductory Programming. Journal of<br>Educational Computing Research, 2020, 58, 364-397.   | 5.5 | 21        |
| 35 | Collaborative Learning, Self-Efficacy, and Student Performance in CS1 POGIL. , 2021, , .  |     | 21        |
| 36 | Teaching in an open village: a case study on culturally responsive computing in compulsory education.<br>Computer Science Education, 2021, 31, 462-488.                                   | 3.7 | 19        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Measuring computer science pedagogical content knowledge. , 2016, , .   |     | 18        |
| 38 | Case Studies in Engineering. , 2014, , 161-180.   |     | 16        |
| 39 | What Works for Them? Preservice Teachers' Perceptions of Their Learning from Video Cases. Action in<br>Teacher Education, 2008, 29, 27-38.  | 0.7 | 15        |
| 40 | Exploring Lightweight Teams in a Distributed Learning Environment. , 2016, , .  |     | 15        |
| 41 | Motivation, Attitudes, and Dispositions. , 2019, , 801-826.   |     | 15        |
| 42 | Instructing special education preâ€service teachers through literacy video cases. Teaching Education, 2009, 20, 149-162.  | 1.3 | 14        |
| 43 | Challenges of a Computer Science Classroom. , 2015, , .   |     | 14        |
| 44 | Approach to Non-Intrusive Load Monitoring using Factorial Hidden Markov Model. , 2018, , .  |     | 14        |
| 45 | Using Hypermedia for Learning Complex Concepts in Chemistry: A Qualitative Study on the<br>Relationship Between Prior Knowledge, Beliefs, and Motivation. Education and Information<br>Technologies, 2006, 11, 33-69. | 5.7 | 13        |
| 46 | Computing and community in formal education. Communications of the ACM, 2020, 63, 18-21.  | 4.5 | 12        |
| 47 | Computational Thinking and Metacognition. TechTrends, 2022, 66, 405-411.  | 2.3 | 12        |
| 48 | Toward justice in computer science through community, criticality, and citizenship. Communications of the ACM, 2022, 65, 42-44.   | 4.5 | 12        |
| 49 | Integrating Computing and Computational Thinking into K-12 STEM Learning. , 2020, , .   |     | 11        |
| 50 | Smart Learning. Applied Sciences (Switzerland), 2020, 10, 6964.   | 2.5 | 10        |
| 51 | POGIL in CS1: Evidence for Student Learning and Belonging. , 2022, , .  |     | 10        |
| 52 | Risks and uncertainties in virtual worlds: an educators' perspective. Journal of Computing in Higher<br>Education, 2013, 25, 49-67.   | 6.1 | 9         |
| 53 | Providing Access and Opportunity for Computational Thinking and Computer Science to Support<br>Mathematics for Students With Disabilities. Journal of Special Education Technology, 2020, ,<br>016264342097856.       | 2.2 | 9         |
| 54 | Applying Levels of Abstraction to Mathematics Word Problems. TechTrends, 2020, 64, 395-403.   | 2.3 | 9         |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Breaking the Code: Confronting Racism in Computer Science through Community, Criticality, and<br>Citizenship. TechTrends, 2022, 66, 450-458.                                     | 2.3 | 9         |
| 56 | Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer<br>International Handbooks of Education, 2018, , 89-106.                          | 0.1 | 8         |
| 57 | Computer Science Educators Stack Exchange. , 2019, , .   |     | 8         |
| 58 | 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         |
| 59 | Enhancing creativity in synthetic biology with Interactive Virtual Environments. , 2009, , .   |     | 7         |
| 60 | Self-Regulation for High School Learners in a MOOC Computer Science Course. , 2020, , .  |     | 7         |
| 61 | Self-evaluation Interventions: Impact on Self-efficacy and Performance in Introductory Programming.<br>ACM Transactions on Computing Education, 2021, 21, 1-28.                  | 3.5 | 6         |
| 62 | Who Belongs in Computer Science?. , 2022, , .  |     | 6         |
| 63 | Learning in Distributed Low-Stakes Teams. , 2015, , .  |     | 5         |
| 64 | Computer Science Teacher Professional Development. , 2017, , .   |     | 5         |
| 65 | POGIL in Computer Science. , 2019, , .   |     | 5         |
| 66 | Self-efficacy Profiles for Computer Science Teachers. , 2021, , .  |     | 5         |
| 67 | 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         |
| 68 | Teacher Views on Computational Thinking as a Pathway to Computer Science. , 2021, , .  |     | 4         |
| 69 | Evaluation and assessment for improving CS teacher effectiveness. ACM Inroads, 2020, 11, 35-41.  | 0.6 | 4         |
| 70 | Culturally Responsive Debugging: a Method to Support Cultural Experts' Early Engagement with Code.<br>TechTrends, 2021, 65, 771-784.   | 2.3 | 3         |
| 71 | Professional Development and Support for POGIL in Computer Science. , 2022, , .  |     | 3         |
| 72 | Work in progress - assessing the engineering curriculum through Bloom's Taxonomy. , 2008, , .  |     | 2         |

|       | N 2   |
|-------|-------|
| ΔΛΛΛΝ | YADAV |
|       | IAUAV |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Local Classrooms, Global Technologies: Toward the Integration of Sociotechnical Macroethical<br>Issues Into Teacher Education. Bulletin of Science, Technology and Society, 2018, 38, 13-22. | 2.9 | 2         |
| 74 | Preparing Teachers for Computational Thinking Integration in K-12. , 2021, , .   |     | 2         |
| 75 | Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer<br>International Handbooks of Education, 2018, , 1-18.  | 0.1 | 2         |
| 76 | Advancing Opportunities for CS Teachers. , 2022, , .   |     | 2         |
| 77 | Introduction: Computational thinking in preK-5. , 2022, , .  |     | 2         |
| 78 | Does context matter? Engineering students' approaches to global vs. local problems. , 2010, , .  |     | 1         |
| 79 | Case-Based Instruction in STEM: Analysis of Student Confidence. , 2016, , .  |     | 0         |
| 80 | Computer Science and Computational Thinking in the Curriculum: Research and Practice. Springer<br>International Handbooks of Education, 2018, , 1-18.  | 0.1 | 0         |
| 81 | Professorial Advancement Initiative: A Cross-Institutional Collaboration to Increase Faculty Diversity in STEM. Frontiers in Psychology, 2021, 12, 733173.                                   | 2.1 | 0         |
| 82 | Teaching Media and Information Literacy in the 21st Century. , 2018, , 2292-2302.  |     | 0         |
| 83 | Teaching Media and Information Literacy in the 21st Century. Advances in Library and Information Science, 2019, , 77-89.   | 0.2 | 0         |
| 84 | Integrating Computing into K-16 Education. , 2020, , .   |     | 0         |
| 85 | Computational thinking in elementary classrooms: Using classroom dialogue to measure equitable participation. , 2021, , .  |     | 0         |
| 86 | Models for Computer Science Teacher Preparation. , 2022, , .   |     | 0         |

Models for Computer Science Teacher Preparation. , 2022, , . 86