Fien Depaepe

List of Publications by Year
in descending order

62 papers	2,168 citations	331670 21 h-index	265206 42 g-index
62 all docs	62 docs citations	62 times ranked	1449 citing authors

#	Article	IF	Citations
1	Pedagogical content knowledge: A systematic review of the way in which the concept has pervaded mathematics educational research. Teaching and Teacher Education, 2013, 34, 12-25.	3.2	365
2	Integrated STEM Education: A Systematic Review of Instructional Practices in Secondary Education. European Journal of STEM Education, 2018, 3, .	1.5	211
3	A systematic literature review on synchronous hybrid learning: gaps identified. Learning Environments Research, 2020, 23, 269-290.	2.8	189
4	Learning and instruction in the hybrid virtual classroom: An investigation of students' engagement and the effect of quizzes. Computers and Education, 2020, 143, 103682.	8.3	121
5	The influence of teachers' attitudes and school context on instructional practices in integrated STEM education. Teaching and Teacher Education, 2018, 71, 190-205.	3.2	89
6	General pedagogical knowledge, self-efficacy and instructional practice: Disentangling their relationship in pre-service teacher education. Teaching and Teacher Education, 2018, 69, 177-190.	3.2	86
7	Teachers' content and pedagogical content knowledge on rational numbers: A comparison of prospective elementary and lower secondary school teachers. Teaching and Teacher Education, 2015, 47, 82-92.	3.2	84
8	The Illusion of Linearity: Expanding the evidence towards probabilistic reasoning. Educational Studies in Mathematics, 2003, 53, 113-138.	2.8	70
9	Teachers' approaches towards word problem solving: Elaborating or restricting the problem context. Teaching and Teacher Education, 2010, 26, 152-160.	3.2	59
10	The effects of two digital educational games on cognitive and non-cognitive math and reading outcomes. Computers and Education, 2020, 143, 103680.	8.3	55
11	Pedagogical Content Knowledge in Teacher Education. , 2016, , 347-386.		46
12	Promoting the development of teacher professional knowledge: Integrating content and pedagogy in teacher education. Teaching and Teacher Education, 2018, 75, 244-258.	3.2	43
13	Technology-mediated personalised learning for younger learners. , 2020, , .		43
14	The effectiveness of adaptive versus non-adaptive learning with digital educational games. Journal of Computer Assisted Learning, 2020, 36, 502-513.	5.1	42
15	How school context and personal factors relate to teachers' attitudes toward teaching integrated STEM. International Journal of Technology and Design Education, 2018, 28, 631-651.	2.6	40
16	Towards measuring cognitive load through multimodal physiological data. Cognition, Technology and Work, 2021, 23, 567-585.	3.0	40
17	Multimodal learning analytics to investigate cognitive load during online problem solving. British Journal of Educational Technology, 2020, 51, 1548-1562.	6.3	39
18	Developing Pedagogical Content Knowledge: Lessons Learned from Intervention Studies. Education Research International, 2015, 2015, 1-23.	1.1	37

#	ARTICLE	IF	CITATIONS
19	Teachers' metacognitive and heuristic approaches to word problem solving: analysis and impact on students' beliefs and performance. ZDM - International Journal on Mathematics Education, 2010, 42, 205-218.	2.2	29
20	Teachers' Attitudes Toward Teaching Integrated STEM: the Impact of Personal Background Characteristics and School Context. International Journal of Science and Mathematics Education, 2019, 17, 987-1007.	2.5	29
21	Perceptions of instructional quality: impact on acceptance and use of an online learning environment. Interactive Learning Environments, 2019, 27, 953-964.	6.4	29
22	Combining physiological data and subjective measurements to investigate cognitive load during complex learning. , 2019, 7, 57-74.		29
23	Computer Vision and Human Behaviour, Emotion and Cognition Detection: A Use Case on Student Engagement. Mathematics, 2021, 9, 287.	2.2	29
24	Effectiveness of educational technology in early mathematics education: A systematic literature review. International Journal of Child-Computer Interaction, 2021, 27, 100220.	3.5	23
25	Students' self-regulation of emotions in mathematics: an analysis of meta-emotional knowledge and skills. ZDM - International Journal on Mathematics Education, 2011, 43, 483-495.	2.2	22
26	STEM Education in Flanders: How STEM@school Aims to Foster STEM Literacy and a Positive Attitude towards STEM. IEEE Instrumentation and Measurement Magazine, 2018, 21, 36-40.	1.6	21
27	Learning Mathematics in Metacognitively Oriented ICT-Based Learning Environments: A Systematic Review of the Literature. Education Research International, 2019, 2019, 1-19.	1.1	21
28	Expertise in developing students' expertise in mathematics: Bridging teachers' professional knowledge and instructional quality. ZDM - International Journal on Mathematics Education, 2020, 52, 179-192.	2.2	20
29	Pedagogical content knowledge in preservice preschool teachers and its association with opportunities to learn during teacher training. ZDM - International Journal on Mathematics Education, 2020, 52, 269-280.	2.2	19
30	The Relationship Between Acceptance, Actual Use of a Virtual Learning Environment and Performance: An Ecological Approach. Journal of Computers in Education, 2018, 5, 95-111.	8.3	18
31	The effectiveness of an adaptive digital educational game for the training of early numerical abilities in terms of cognitive, noncognitive and efficiency outcomes. British Journal of Educational Technology, 2021, 52, 112-124.	6.3	18
32	Unraveling the culture of the mathematics classroom: A video-based study in sixth grade. International Journal of Educational Research, 2007, 46, 266-279.	2.2	17
33	An overview of 25 years of research on digital personalised learning in primary and secondary education: A systematic review of conceptual and methodological trends. British Journal of Educational Technology, 2021, 52, 1798-1822.	6.3	16
34	Unraveling the Relationship Between Students' Mathematics-Related Beliefs and the Classroom Culture. European Psychologist, 2008, 13, 24-36.	3.1	16
35	Self-Regulation of Mathematical Knowledge and Skills. , 0, , .		12
36	The influence of students' cognitive and motivational characteristics on students' use of a 4C/ID-based online learning environment and their learning gain. , 2018, , .		12

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37	Effects of instruction on pedagogical content knowledge about fractions in sixth-grade mathematics on content knowledge and pedagogical knowledge. Unterrichtswissenschaft, 2019, 47, 79-97.	1.0	12
38	Students' Non-realistic Mathematical Modeling as a Drawback of Teachers' Beliefs About and Approaches to Word Problem Solving. Advances in Mathematics Education, 2015, , 137-156.	0.2	11
39	The effect of adaptivity in digital learning technologies. Modelling learning efficiency using data from an educational game. British Journal of Educational Technology, 2021, 52, 1881-1897.	6.3	11
40	Stimulating pre-service teachers' content and pedagogical content knowledge on rational numbers. Educational Studies in Mathematics, 2018, 99, 197-216.	2.8	10
41	The Effects of a Systematically Designed Online Learning Environment on Preservice Teachers' Professional Knowledge. Journal of Digital Learning in Teacher Education, 2017, 33, 103-113.	1.2	9
42	Effects of Opportunities to Learn in Teacher Education on the Development of Teachers' Professional Knowledge of French as a Foreign Language. Journal of Advances in Education Research, 2017, 2, .	0.2	9
43	A longitudinal study to understand students' acceptance of technological reform. When experiences exceed expectations. Education and Information Technologies, 2020, 25, 533-552.	5.7	8
44	Research skills in upper secondary education and in first year of university. Educational Studies, 2021, 47, 491-507.	2.4	8
45	The Exploration of Drawings as a Tool to Gain Entry to Students' Epistemological Beliefs. Electronic Journal of Research in Educational Psychology, 2017, 8, .	0.6	6
46	The reflexive relation between students' mathematics-related beliefs and the mathematics classroom culture. , 2010, , 292-327.		5
47	Multichannel data for understanding cognitive affordances during complex problem solving. , 2019, , .		5
48	Word Problems in Mathematics Education. , 2020, , 908-911.		5
49	Flemish students' historical reference knowledge and narratives of the Belgian national past at the end of secondary education. London Review of Education, 0, 15, .	1.8	4
50	Intervention studies in math: A metareview. , 2021, , 283-308.		4
51	The Instructional Design of a 4C/ID-Inspired Learning Environment for Upper Secondary School Students' Research Skills. International Journal of Designs for Learning, 2020, 11, 126-147.	0.2	4
52	Chinese upper elementary school mathematics teachers' attitudes towards the place and value of problematic word problems in mathematics education. Frontiers of Education in China, 2011, 6, 449-469.	2.2	3
53	Who is granted authority in the mathematics classroom? An analysis of the observed and perceived distribution of authority. Educational Studies, 2012, 38, 223-234.	2.4	3
54	Mathematics Education. , 2015, , 816-821.		3

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55	Pedagogical content knowledge of French as a foreign language: differences between pre-service and in-service teachers. Educational Studies, 2019, 45, 422-439.	2.4	2
56	Evaluating the Leuven Research Skills Test for 11th and 12th Grade. Journal of Psychoeducational Assessment, 2020, 38, 445-459.	1.5	2
57	The Role of the Home Learning Environment on Early Cognitive and Non-Cognitive Outcomes in Math and Reading. Frontiers in Education, 2021, 6, .	2.1	2
58	Fostering Students' Scientific Reasoning Skills in Secondary Education: An Intervention Study. International Journal of Science, Mathematics and Technology Learning, 2019, 26, 1-19.	0.2	1
59	The interplay between historical thinking and epistemological beliefs: A case study with history teachers in Flanders. Historical Encounters, 2022, 9, 196-219.	0.4	1
60	Children's Picture Books: A Systematic Analysis of Features in the Domain of Mathematics. Early Education and Development, 0, , 1-20.	2.6	1
61	Unravelling Learning Engagement in the Hybrid Virtual Classroom. European Distance and E-Learning Network, 2019, , 310-319.	0.3	0
62	The Instructional Design of an Online Learning Environment (RISSC) for Upper Secondary School Students' Research Skills. European Distance and E-Learning Network, 2019, , 174-182.	0.3	0