

Ismo Tapio Koponen

List of Publications by Year in descending order

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23
papers

234
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1306789

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24
docs citations

24
times ranked

179
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Knowledge Structures of Physics Represented as Concept Networks in Teacher Education. <i>Science and Education</i> , 2010, 19, 259-282.	1.7	56
2	Building a picture of students' conceptions of wave- and particle-like properties of quantum entities. <i>European Journal of Physics</i> , 2002, 23, 45-53.	0.3	51
3	Concept networks of students'™ knowledge of relationships between physics concepts: finding key concepts and their epistemic support. <i>Applied Network Science</i> , 2018, 3, .	0.8	26
4	Concept Development in Learning Physics: The Case of Electric Current and Voltage Revisited. <i>Science and Education</i> , 2013, 22, 2227-2254.	1.7	21
5	Network cartography of university students'™ knowledge landscapes about the history of science: landmarks and thematic communities. <i>Applied Network Science</i> , 2019, 4, .	0.8	12
6	Systemic view of learning scientific concepts: A description in terms of directed graph model. <i>Complexity</i> , 2014, 19, 27-37.	0.9	10
7	Pre-Service Teachers'™ Knowledge of Relational Structure of Physics Concepts: Finding Key Concepts of Electricity and Magnetism. <i>Education Sciences</i> , 2019, 9, 18.	1.4	9
8	Pre-Service Teachers'™ Declarative Knowledge of Wave-Particle Dualism of Electrons and Photons: Finding Lexicons by Using Network Analysis. <i>Education Sciences</i> , 2020, 10, 76.	1.4	7
9	First-Year Life Science Students'™ Understanding of the Role of Plants in the Ecosystem'™ A Concept Network Analysis. <i>Education Sciences</i> , 2021, 11, 369.	1.4	7
10	Modelling students'™ knowledge organisation: Genealogical conceptual networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 495, 405-417.	1.2	6
11	Introduction: Conceptual Change and Its Models. <i>Science and Education</i> , 2014, 23, 1411-1412.	1.7	4
12	Characterising heavy-tailed networks using q-generalised entropy and q-adjacency kernels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 566, 125666.	1.2	4
13	Systemic States of Spreading Activation in Describing Associative Knowledge Networks II: Generalisations with Fractional Graph Laplacians and q-Adjacency Kernels. <i>Systems</i> , 2021, 9, 22.	1.2	4
14	Nature of Science (NOS) Being Acquainted with Science of Science (SoS): Providing a Panoramic Picture of Sciences to Embody NOS for Pre-Service Teachers. <i>Education Sciences</i> , 2021, 11, 107.	1.4	4
15	Systemic States of Spreading Activation in Describing Associative Knowledge Networks: From Key Items to Relative Entropy Based Comparisons. <i>Systems</i> , 2021, 9, 1.	1.2	4
16	Usage of Terms 'Science' and 'Scientific Knowledge' in Nature of Science (NOS): Do Their Lexicons in Different Accounts Indicate Shared Conceptions?. <i>Education Sciences</i> , 2020, 10, 252.	1.4	3
17	Editorial: Networks Applied in Science Education Research. <i>Education Sciences</i> , 2020, 10, 142.	1.4	2
18	Lexical Networks and Lexicon Profiles in Didactical Texts for Science Education. <i>Studies in Computational Intelligence</i> , 2020, , 15-27.	0.7	2

#	ARTICLE	IF	CITATIONS
19	Dynamic systems view of learning a three-tiered theory in physics: robust learning outcomes as attractors. <i>Complexity</i> , 2016, 21, 259-267.	0.9	1
20	Concept Networks in Learning and the Epistemic Support of Their Key Concepts. <i>Studies in Computational Intelligence</i> , 2018, , 759-769.	0.7	1
21	Modelling surface growth in IBAD with rate equations. <i>Materials Research Society Symposia Proceedings</i> , 2000, 648, 1.	0.1	0
22	Introduction: The Second Nordic HPS&ST Symposium. <i>Science and Education</i> , 2014, 23, 1565-1566.	1.7	0
23	Agent-Based-Model of Students'™ Sociocognitive Learning Process in Acquiring Tiered Knowledge. <i>Communications in Computer and Information Science</i> , 2019, , 82-95.	0.4	0