

Ismo Tapio Koponen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22
papers

156
citations

6
h-index

12
g-index

24
ext. papers

184
ext. citations

2
avg, IF

3.91
L-index

#	Paper	IF	Citations
22	Systemic States of Spreading Activation in Describing Associative Knowledge Networks: From Key Items to Relative Entropy Based Comparisons. <i>Systems</i> , 2021 , 9, 1	3	2
21	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	2.2	2
20	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	2.2	1
19	Characterising heavy-tailed networks using q-generalised entropy and q-adjacency kernels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 566, 125666	3.3	1
18	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	3	2
17	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	2.2	4
16	Lexical Networks and Lexicon Profiles in Didactical Texts for Science Education. <i>Studies in Computational Intelligence</i> , 2020 , 15-27	0.8	1
15	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	2.2	2
14	Pre-Service Teachers' Knowledge of Relational Structure of Physics Concepts: Finding Key Concepts of Electricity and Magnetism. <i>Education Sciences</i> , 2019 , 9, 18	2.2	6
13	Network cartography of university students' knowledge landscapes about the history of science: landmarks and thematic communities. <i>Applied Network Science</i> , 2019 , 4,	2.9	6
12	Agent-Based-Model of Students' Sociocognitive Learning Process in Acquiring Tiered Knowledge. <i>Communications in Computer and Information Science</i> , 2019 , 82-95	0.3	
11	Modelling students' knowledge organisation: Genealogical conceptual networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 495, 405-417	3.3	6
10	Concept Networks in Learning and the Epistemic Support of Their Key Concepts. <i>Studies in Computational Intelligence</i> , 2018 , 759-769	0.8	1
9	Concept networks of students' knowledge of relationships between physics concepts: finding key concepts and their epistemic support. <i>Applied Network Science</i> , 2018 , 3,	2.9	18
8	Dynamic systems view of learning a three-tiered theory in physics: robust learning outcomes as attractors. <i>Complexity</i> , 2016 , 21, 259-267	1.6	1
7	Introduction: The Second Nordic HPS&ST Symposium. <i>Science and Education</i> , 2014 , 23, 1565-1566	2.1	
6	Introduction: Conceptual Change and Its Models. <i>Science and Education</i> , 2014 , 23, 1411-1412	2.1	2

5	Systemic view of learning scientific concepts: A description in terms of directed graph model. <i>Complexity</i> , 2014 , 19, 27-37	1.6	7
4	Concept Development in Learning Physics: The Case of Electric Current and Voltage Revisited. <i>Science and Education</i> , 2013 , 22, 2227-2254	2.1	16
3	Coherent Knowledge Structures of Physics Represented as Concept Networks in Teacher Education. <i>Science and Education</i> , 2010 , 19, 259-282	2.1	39
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	0.8	37
1	Modelling surface growth in IBAD with rate equations. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 648, 1		