Sanna Järvelä

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/585459/publications.pdf

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143 papers 7,496 citations

45 h-index 74163 75 g-index

147 all docs

147 docs citations

147 times ranked

3390 citing authors

#	Article	IF	CITATIONS
1	Affective states and regulation of learning during <scp>socioâ€emotional </scp> interactions in secondary school collaborative groups. British Journal of Educational Psychology, 2023, 93, 48-70.	2.9	14
2	Pupils' experiences and perceptions of engagement during the Moving Maths programme. Education 3-13, 2022, 50, 419-434.	1.0	4
3	Leaders and Followers Identified by Emotional Mimicry During Collaborative Learning: A Facial Expression Recognition Study on Emotional Valence. IEEE Transactions on Affective Computing, 2022, 13, 1390-1400.	8.3	9
4	Exploring Adaptation in Socially-Shared Regulation of Learning Using Video and Heart Rate Data. Technology, Knowledge and Learning, 2022, 27, 385-404.	4.9	11
5	The Changes in Lower Secondary School Students' Interest During Collaborative Learning. Scandinavian Journal of Educational Research, 2022, 66, 1127-1140.	1.7	2
6	The pivotal role of monitoring for collaborative problem solving seen in interaction, performance, and interpersonal physiology. Metacognition and Learning, 2022, 17, 241-268.	2.7	11
7	"Anything taking shape?―Capturing various layers of small group collaborative problem solving in an experiential geometry course in initial teacher education. Instructional Science, 2022, 50, 1-34.	2.0	3
8	Detecting shared physiological arousal events in collaborative problem solving. Contemporary Educational Psychology, 2022, 69, 102050.	2.9	16
9	The Promises and Challenges of Artificial Intelligence for Teachers: a Systematic Review of Research. TechTrends, 2022, 66, 616-630.	2.3	59
10	Individuals in a group: Metacognitive and regulatory predictors of learning achievement in collaborative learning. Learning and Individual Differences, 2022, 96, 102146.	2.7	19
11	What multimodal data can tell us about the students' regulation of their learning process?. Learning and Instruction, 2021, 72, 101203.	3.2	54
12	How pre-service teachers perceive their 21st-century skills and dispositions: A longitudinal perspective. Computers in Human Behavior, 2021, 116, 106643.	8.5	40
13	Revealing the hidden structure of physiological states during metacognitive monitoring in collaborative learning. Journal of Computer Assisted Learning, 2021, 37, 861-874.	5.1	12
14	Exploring multilayered collaboration designs. International Journal of Computer-Supported Collaborative Learning, 2021, 16, 1-5.	3.0	9
15	Teachers as learners – a qualitative exploration of pre-service and in-service teachers' continuous learning community OpenDigi. Journal of Education for Teaching, 2021, 47, 495-512.	2.0	11
16	Forms of collaboration matters: CSCL across the contexts. International Journal of Computer-Supported Collaborative Learning, 2021, 16, 145-149.	3.0	2
17	"You really brought all your feelings out―– Scaffolding students to identify the socio-emotional and socio-cognitive challenges in collaborative learning. Learning, Culture and Social Interaction, 2021, 30, 100536.	1.8	13
18	An overview of instruments for assessing and supporting elementary school students' self-regulated learning. Learning: Research and Practice, 2021, 7, 109-146.	0.4	3

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19	Facing the challenges of †digital competence'. Nordic Journal of Digital Literacy, 2021, 16, 77-87.	1.4	37
20	A theory-driven reflection on context-aware support for collaborative discussions in light of analytics, affordances, and platforms. International Journal of Computer-Supported Collaborative Learning, 2021, 16, 435-440.	3.0	0
21	Metacognition in Collaborative Learning. , 2021, , 281-294.		17
22	Linking learning behavior analytics and learning science concepts: Designing a learning analytics dashboard for feedback to support learning regulation. Computers in Human Behavior, 2020, 107, 105512.	8.5	146
23	Supporting groups' emotion and motivation regulation during collaborative learning. Learning and Instruction, 2020, 70, 101090.	3.2	73
24	Cognitive and Socio-Emotional Interaction in Collaborative Learning: Exploring Fluctuations in Students' Participation. Scandinavian Journal of Educational Research, 2020, 64, 831-851.	1.7	51
25	Convergences of Joint, Positive Interactions and Regulation in Collaborative Learning. Small Group Research, 2020, 51, 229-264.	2.7	20
26	Finnish pre-service teachers' perceptions of their strategic learning skills and collaboration dispositions. Journal of Education for Teaching, 2020, 46, 71-86.	2.0	8
27	Matching self-reports with electrodermal activity data: Investigating temporal changes in self-regulated learning. Education and Information Technologies, 2020, 25, 1785-1802.	5.7	27
28	How individual metacognitive awareness relates to situation-specific metacognitive interpretations of collaborative learning tasks. Educational Studies, 2020, , 1-22.	2.4	9
29	A Collaborative Learning Design for Promoting and Analyzing Adaptive Motivation and Emotion Regulation in the Science Classroom. Frontiers in Education, 2020, 5, .	2.1	22
30	Building community together: towards equitable CSCL practices and processes. International Journal of Computer-Supported Collaborative Learning, 2020, 15, 249-255.	3.0	6
31	How does monitoring set the stage for adaptive regulation or maladaptive behavior in collaborative learning?. Metacognition and Learning, 2020, 15, 99-127.	2.7	31
32	Interplay of metacognitive experiences and performance in collaborative problem solving. Computers and Education, 2020, 154, 103922.	8.3	30
33	Bridging learning sciences, machine learning and affective computing for understanding cognition and affect in collaborative learning. British Journal of Educational Technology, 2020, 51, 2391-2406.	6.3	70
34	What does physiological synchrony reveal about metacognitive experiences and group performance?. British Journal of Educational Technology, 2020, 51, 1577-1596.	6.3	35
35	Multimodal data indicators for capturing cognitive, motivational, and emotional learning processes: A systematic literature review. Education and Information Technologies, 2020, 25, 5499-5547.	5.7	34
36	Advocating for group interaction in the age of COVID-19. International Journal of Computer-Supported Collaborative Learning, 2020, 15, 143-147.	3.0	12

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37	Experiencing CSCL: from motivation to the embodied experience and beyond. International Journal of Computer-Supported Collaborative Learning, 2020, 15, 1-4.	3.0	3
38	Editorial: Affective Learning in Digital Education. Frontiers in Psychology, 2020, 11, 630966.	2.1	6
39	Going beyond what is visible: What multichannel data can reveal about interaction in the context of collaborative learning?. Computers in Human Behavior, 2019, 96, 235-245.	8.5	72
40	Affective Learning in Digital Educationâ€"Case Studies of Social Networking Systems, Games for Learning, and Digital Fabrication. Frontiers in Education, 2019, 4, .	2.1	17
41	Examining preâ€service teachers' Technological Pedagogical Content Knowledge as evolving knowledge domains: A longitudinal approach. Journal of Computer Assisted Learning, 2019, 35, 491-502.	5.1	37
42	Examining shared monitoring in collaborative learning: A case of a recurrence quantification analysis approach. Computers in Human Behavior, 2019, 100, 335-344.	8.5	34
43	Knowledge co-construction activities and task-related monitoring in scripted collaborative learning. Learning, Culture and Social Interaction, 2019, 21, 234-249.	1.8	36
44	Capturing the dynamic and cyclical nature of regulation: Methodological Progress in understanding socially shared regulation in learning. International Journal of Computer-Supported Collaborative Learning, 2019, 14, 425-441.	3.0	74
45	Are we together or not? The temporal interplay of monitoring, physiological arousal and physiological synchrony during a collaborative exam. International Journal of Computer-Supported Collaborative Learning, 2019, 14, 467-490.	3.0	25
46	Multimodal data to design visual learning analytics for understanding regulation of learning. Computers in Human Behavior, 2019, 100, 298-304.	8.5	72
47	Investigating students' situation-specific emotional state and motivational goals during a learning project within one primary school classroom. Learning: Research and Practice, 2019, 5, 4-23.	0.4	11
48	Sympathetic arousal commonalities and arousal contagion during collaborative learning: How attuned are triad members?. Computers in Human Behavior, 2019, 92, 188-197.	8.5	32
49	Striking a balance: Socio-emotional processes during argumentation in collaborative learning interaction. Learning, Culture and Social Interaction, 2018, 16, 1-19.	1.8	59
50	Teacher education students' strategic activities in challenging collaborative learning situations. Learning, Culture and Social Interaction, 2018, 19, 109-123.	1.8	30
51	Profiling sympathetic arousal in a physics course: How active are students?. Journal of Computer Assisted Learning, 2018, 34, 397-408.	5.1	58
52	Contemporary Perspectives of Regulated Learning in Collaboration., 2018,, 127-136.		34
53	Monitoring in collaborative learning: Co-occurrence of observed behavior and physiological synchrony explored. Computers in Human Behavior, 2018, 87, 337-347.	8.5	61
54	Finnish students' reasons for their achievement in classroom activities: focus on features that support self-regulated learning. Education 3-13, 2017, 45, 1-16.	1.0	4

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55	Monitoring makes a difference: quality and temporal variation in teacher education students' collaborative learning. Scandinavian Journal of Educational Research, 2017, 61, 31-46.	1.7	33
56	Capturing temporal and sequential patterns of self-, co-, and socially shared regulation in the context of collaborative learning. Contemporary Educational Psychology, 2017, 49, 160-174.	2.9	135
57	Exploring temporal sequences of regulatory phases and associated interactions in low- and high-challenge collaborative learning sessions. Metacognition and Learning, 2017, 12, 275-294.	2.7	37
58	Higher education students' learning challenges and regulatory skills in different learning situations / DesafÃos de aprendizaje y habilidades de regulación en distintas situaciones de aprendizaje en estudiantes de educación superior. Infancia Y Aprendizaje, 2017, 40, 19-55.	0.9	37
59	Facilitating socio-cognitive and socio-emotional monitoring in collaborative learning with a regulation macro script – an exploratory study. International Journal of Computer-Supported Collaborative Learning, 2017, 12, 251-279.	3.0	61
60	Young children's use of emotion and behaviour regulation strategies in socio-emotionally challenging day-care situations. Early Childhood Research Quarterly, 2017, 41, 50-62.	2.7	15
61	Socially shared regulation of learning and participation in social interaction in collaborative learning. International Journal of Educational Research, 2017, 81, 11-24.	2.2	88
62	Preparing teacher-students forÂtwenty-first-century learning practices (PREP 21): a framework for enhancing collaborative problem-solving and strategic learning skills. Teachers and Teaching: Theory and Practice, 2017, 23, 25-41.	1.9	161
63	Investigating collaborative learning success with physiological coupling indices based on electrodermal activity., 2016,,.		44
64	Socially shared regulation of learning in CSCL: understanding and prompting individual- and group-level shared regulatory activities. International Journal of Computer-Supported Collaborative Learning, 2016, 11 , 263 - 280 .	3.0	136
65	How do types of interaction and phases of self-regulated learning set a stage for collaborative engagement?. Learning and Instruction, 2016, 43, 39-51.	3.2	125
66	†What makes her succeed?' Children's interpretations of their peers' successes in learning situations. International Journal of Early Years Education, 2016, 24, 97-112.	0.8	1
67	Recognizing socially shared regulation by using the temporal sequences of online chat and logs in CSCL. Learning and Instruction, 2016, 42, 1-11.	3.2	107
68	Interaction forms in successful collaborative learning in virtual learning environments. Active Learning in Higher Education, 2016, 17, 25-38.	5.4	83
69	Third wave of measurement in the self-regulated learning field: when measurement and intervention come hand in hand. Scandinavian Journal of Educational Research, 2016, 60, 723-735.	1.7	149
70	How teachers co-regulate children's emotions and behaviour in socio-emotionally challenging situations in day-care settings. International Journal of Educational Research, 2016, 76, 76-88.	2.2	26
71	Investigating children's emotion regulation in socio-emotionally challenging classroom situations. Early Child Development and Care, 2015, 185, 1238-1254.	1.3	10
72	Four Stages of Research on the Educational Use of Ubiquitous Computing. IEEE Transactions on Learning Technologies, 2015, 8, 69-82.	3.2	27

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73	How Individual Self-Regulation Affects Group Regulation and Performance. Small Group Research, 2015, 46, 431-454.	2.7	61
74	Promoting socially shared regulation of learning in CSCL: Progress of socially shared regulation among high- and low-performing groups. Computers in Human Behavior, 2015, 52, 562-572.	8.5	106
75	How research on self-regulated learning can advance computer supported collaborative learning / El papel de la investigación sobre aprendizaje autorregulado en el desarrollo del aprendizaje colaborativo asistido por ordenador. Infancia Y Aprendizaje, 2015, 38, 279-294.	0.9	11
76	Understanding Regulated Learning in Situative and Contextual Frameworks. Educational Psychologist, 2015, 50, 204-219.	9.0	84
77	Enhancing socially shared regulation in collaborative learning groups: designing for CSCL regulation tools. Educational Technology Research and Development, 2015, 63, 125-142.	2.8	214
78	Integrated Use of Multiple Social Software Tools and Face-to-Face Activities to Support Self-Regulated Learning: A Case Study in a Higher Education Context., 2015,, 471-484.		13
79	Enhancing socially shared regulation in collaborative learning groups: designing for CSCL regulation tools., 2015, 63, 125.		1
80	Socially Shared Regulation of Learning: A Review. European Psychologist, 2015, 20, 190-203.	3.1	175
81	Designing for Learning. , 2014, , 668-685.		54
82	Elementary school students' strategic learning: does task-type matter?. Metacognition and Learning, 2014, 9, 113-136.	2.7	45
83	Finnish upper secondary students' collaborative processes in learning statistics in a CSCL environment. International Journal of Mathematical Education in Science and Technology, 2014, 45, 325-348.	1.4	4
84	Socio-emotional conflict in collaborative learningâ€"A process-oriented case study in a higher education context. International Journal of Educational Research, 2014, 68, 1-14.	2.2	124
85	Sequential and temporal characteristics of self and socially regulated learning. Metacognition and Learning, 2014, 9, 75-85.	2.7	104
86	Patterns in elementary school students′ strategic actions in varying learning situations. Instructional Science, 2013, 41, 933-954.	2.0	45
87	Involving children in reflective discussions about their perceived self-efficacy and learning experiences. International Journal of Early Years Education, 2013, 21, 309-324.	0.8	9
88	New Frontiers: Regulating Learning in CSCL. Educational Psychologist, 2013, 48, 25-39.	9.0	441
89	Regulation of emotions in socially challenging learning situations: an instrument to measure the adaptive and social nature of the regulation process. Educational Psychology, 2013, 33, 31-58.	2.7	88
90	Trajectories of resilience during dyadic task performance among children six to seven years of age. European Early Childhood Education Research Journal, 2013, 21, 439-452.	1.9	1

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91	Exploring Socially Shared Regulation in the Context of Collaboration. Journal of Cognitive Education and Psychology, 2013, 12, 267-286.	0.2	114
92	Supporting collaborative inquiry during a biology field trip with mobile peer-to-peer tools for learning: a case study with K-12 learners. Interactive Learning Environments, 2012, 20, 103-117.	6.4	39
93	How elementary school students' motivation is connected to self-regulation. Educational Research and Evaluation, 2012, 18, 65-84.	1.6	26
94	Triggers of Students' Efficacious Interaction in Collaborative Learning Situations. Small Group Research, 2012, 43, 497-522.	2.7	17
95	Supporting small-group learning using multiple Web 2.0 tools: A case study in the higher education context. Internet and Higher Education, 2012, 15, 29-38.	6.5	76
96	Socio-emotional Aspects of Learning. , 2012, , 3139-3140.		3
97	How does help seeking help? – New prospects in a variety of contexts. Learning and Instruction, 2011, 21, 297-299.	3.2	32
98	Socially Constructed Self-Regulated Learning and Motivation Regulation in Collaborative Learning Groups. Teachers College Record, 2011, 113, 350-374.	0.9	166
99	Introduction to a Special Issue on Social Aspects of Self-Regulated Learning: Where Social and Self Meet in the Strategic Regulation of Learning. Teachers College Record, 2011, 113, 235-239.	0.9	34
100	Tracing elementary school students' study tactic use in gStudy by examining a strategic and self-regulated learning. Computers in Human Behavior, 2010, 26, 1034-1042.	8.5	27
101	Group-level analysis on multiplayer game collaboration: how do the individuals shape the group interaction?. Interactive Learning Environments, 2010, 18, 365-383.	6.4	36
102	Research on Motivation in Collaborative Learning: Moving Beyond the Cognitive–Situative Divide and Combining Individual and Social Processes. Educational Psychologist, 2010, 45, 15-27.	9.0	241
103	Emotion control in collaborative learning situations: Do students regulate emotions evoked by social challenges/. British Journal of Educational Psychology, 2009, 79, 463-481.	2.9	201
104	The Evolution of Research on Computer-Supported Collaborative Learning., 2009,, 3-19.		339
105	Socially shared metacognition of pre-service primary teachers in a computer-supported mathematics course and their feelings of task difficulty: a case study. Educational Research and Evaluation, 2009, 15, 503-524.	1.6	41
106	Investigating student engagement in computer-supported inquiry: a process-oriented analysis. Social Psychology of Education, 2008, 11, 299-322.	2.5	49
107	Application of qualitative and quantitative methods to enrich understanding of emotional and motivational aspects of learning. International Journal of Educational Research, 2008, 47, 79-83.	2.2	21
108	Understanding the dynamics of motivation in socially shared learning. International Journal of Educational Research, 2008, 47, 122-135.	2.2	119

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109	Collaborative-Inquiry Learning in the Environment. Design Experiment with Distributed Face-to-Face and Mobile Scaffolds. , 2008, , .		O
110	Using web2.0 Software and Mobile Devices for Creating Shared Understanding among Virtual Learning Communities., 2008,,.		3
111	Social patterns in mobile technology mediated collaboration among members of the professional distance education community. Educational Media International, 2008, 45, 17-32.	1.7	11
112	How Pictorial Knowledge Representations Mediate Collaborative Knowledge Construction In Groups. Journal of Research on Technology in Education, 2008, 40, 359-387.	6.5	20
113	Combining individual and group-level perspectives for studying collaborative knowledge construction in context. Learning and Instruction, 2007, 17, 448-459.	3.2	128
114	Sharing and constructing perspectives in web-based conferencing. Computers and Education, 2006, 47, 433-447.	8.3	44
115	Analyzing CMC content for what?. Computers and Education, 2006, 46, 96-103.	8.3	47
116	Facilitating interpersonal evaluation of knowledge in a context of distributed team collaboration. British Journal of Educational Technology, 2006, 37, 897-916.	6.3	23
117	Metacognition in joint discussions: an analysis of the patterns of interaction and the metacognitive content of the networked discussions in mathematics. Metacognition and Learning, 2006, 1, 181-200.	2.7	77
118	Learning to collaborate: Designing collaboration in a 3-D game environment. Internet and Higher Education, 2006, 9, 47-61.	6.5	62
119	Facilitating interpersonal evaluation of knowledge in a context of distributed team collaboration. , 2006, 37, 897.		1
120	Epistemic cooperation scripts in online learning environments: fostering learning by reducing uncertainty in discourse?. Computers in Human Behavior, 2005, 21, 603-622.	8.5	75
121	What is reciprocal understanding in virtual interaction?. Instructional Science, 2005, 33, 121-136.	2.0	13
122	Students' Activity in Computer-Supported Collaborative Problem Solving in Mathematics. International Journal of Computers for Mathematical Learning, 2005, 10, 49-73.	0.6	56
123	Conceptualizing the Awareness of Collaboration: A Qualitative Study of a Global Virtual Team. Computer Supported Cooperative Work, 2005, 14, 301-322.	2.9	82
124	How students describe the sources of their emotional and motivational experiences during the learning process: A qualitative approach. Learning and Instruction, 2005, 15, 465-480.	3.2	118
125	Motivation in Real-Life, Dynamic, and Interactive Learning Environments: Stretching Constructs and Methodologies. European Psychologist, 2004, 9, 193-197.	3.1	48
126	The Interplay of Motivational Goals and Cognitive Strategies in a New Pedagogical Culture. European Psychologist, 2004, 9, 232-244.	3.1	23

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127	Face-to-face encounters as contextual support for Web-based discussions in a teacher education course. Internet and Higher Education, 2004, 7, 199-215.	6.5	11
128	Generalized achievement goals and situational coping in inquiry learning. Instructional Science, 2004, 32, 269-291.	2.0	27
129	Student' Strategic Actions in Computer-Supported Collaborative Learning. Learning Environments Research, 2003, 6, 267-284.	2.8	44
130	Web-based Cases in Teaching and Learning – the Quality of Discussions and a Stage of Perspective Taking in Asynchronous Communication. Interactive Learning Environments, 2002, 10, 1-22.	6.4	135
131	Mechanisms of common ground in case-based web discussions in teacher education. Internet and Higher Education, 2002, 5, 247-265.	6.5	50
132	Creating computer supported collaborative learning in Finnish schools: research perspectives on sociocognitive effects. International Journal of Continuing Engineering Education and Life-Long Learning, 2001, 11, 365.	0.2	17
133	NINTER - Networked Interaction: Theory-Based Cases in Teaching and Learning. Learning Environments Research, 2000, 3, 35-50.	2.8	13
134	Socio-emotional Orientation as a Mediating Variable in the Teachingâ€Learning Interaction: Implications for instructional design. Scandinavian Journal of Educational Research, 2000, 44, 293-306.	1.7	39
135	A Theoretical Analysis of Social Interactions in Computer-Based Learning Environments: Evidence for Reciprocal Understandings. Journal of Educational Computing Research, 1999, 21, 363-388.	5.5	18
136	The changes in learning theory and the topicality of the recent research on motivation. Learning and Instruction, 1999, 9, 57-65.	3.2	31
137	Socioemotional aspects of students' learning in a cognitive-apprenticeship environment. Instructional Science, 1998, 26, 439-472.	2.0	15
138	New models of teacher-student interaction: A critical review. European Journal of Psychology of Education, 1996, 11, 249-268.	2.6	14
139	The cognitive apprenticeship model in a technologically rich learning environment: Interpreting the learning interaction. Learning and Instruction, 1995, 5, 237-259.	3.2	88
140	Self-Regulated, Co-Regulated, and Socially Shared Regulation of Learning. , 0, , .		51
141	Capturing motivation and emotion regulation during a learning process. , 0, , 85-104.		32
142	More active lessons: teachers' perceptions of student engagement during physically active maths lessons in Finland. Education Inquiry, 0, , 1-22.	2.9	1
143	A Person-Centered Approach to Study Students' Socio-Emotional Interaction Profiles and Regulation of Collaborative Learning. Frontiers in Education, 0, 7, .	2.1	3