

Peter Gerjets

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

4,663
citations

87723

38
h-index

110170

64
g-index

104
all docs

104
docs citations

104
times ranked

2834
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining the split-attention effect: Is the reduction of extraneous cognitive load accompanied by an increase in germane cognitive load?. <i>Computers in Human Behavior</i> , 2009, 25, 315-324.	5.1	293
2	In the eyes of the beholder: How experts and novices interpret dynamic stimuli. <i>Learning and Instruction</i> , 2010, 20, 146-154.	1.9	288
3	Learner Control in Hypermedia Environments. <i>Educational Psychology Review</i> , 2007, 19, 285-307.	5.1	252
4	Learning to see: Guiding students' attention via a Model's eye movements fosters learning. <i>Learning and Instruction</i> , 2013, 25, 62-70.	1.9	165
5	Attention guidance during example study via the model's eye movements. <i>Computers in Human Behavior</i> , 2009, 25, 785-791.	5.1	164
6	Designing Instructional Examples to Reduce Intrinsic Cognitive Load: Molar versus Modular Presentation of Solution Procedures. <i>Instructional Science</i> , 2004, 32, 33-58.	1.1	162
7	Measuring spontaneous and instructed evaluation processes during Web search: Integrating concurrent thinking-aloud protocols and eye-tracking data. <i>Learning and Instruction</i> , 2011, 21, 220-231.	1.9	142
8	Goal Configurations and Processing Strategies as Moderators Between Instructional Design and Cognitive Load: Evidence From Hypertext-Based Instruction. <i>Educational Psychologist</i> , 2003, 38, 33-41.	4.7	129
9	Conveying clinical reasoning based on visual observation via eye-movement modelling examples. <i>Instructional Science</i> , 2012, 40, 813-827.	1.1	127
10	Can learning from molar and modular worked examples be enhanced by providing instructional explanations and prompting self-explanations?. <i>Learning and Instruction</i> , 2006, 16, 104-121.	1.9	124
11	The effects of realism in learning with dynamic visualizations. <i>Learning and Instruction</i> , 2009, 19, 481-494.	1.9	119
12	Comparison of the Working Memory Load in N-Back and Working Memory Span Tasks by Means of EEG Frequency Band Power and P300 Amplitude. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 6.	1.0	104
13	When flanker meets the n-back: What EEG and pupil dilation data reveal about the interplay between the two central executive working memory functions inhibition and updating. <i>Psychophysiology</i> , 2015, 52, 1293-1304.	1.2	99
14	The role of Internet-specific epistemic beliefs in laypersons' source evaluations and decisions during Web search on a medical issue. <i>Computers in Human Behavior</i> , 2013, 29, 1193-1203.	5.1	96
15	The Scientific Value of Cognitive Load Theory: A Research Agenda Based on the Structuralist View of Theories. <i>Educational Psychology Review</i> , 2009, 21, 43-54.	5.1	93
16	Cognitive state monitoring and the design of adaptive instruction in digital environments: lessons learned from cognitive workload assessment using a passive brain-computer interface approach. <i>Frontiers in Neuroscience</i> , 2014, 8, 385.	1.4	90
17	Effects of search interface and Internet-specific epistemic beliefs on source evaluations during Web search for medical information: an eye-tracking study. <i>Behaviour and Information Technology</i> , 2012, 31, 83-97.	2.5	87
18	Learning with hypermedia: The influence of representational formats and different levels of learner control on performance and learning behavior. <i>Computers in Human Behavior</i> , 2009, 25, 360-370.	5.1	85

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19	The Role of Search Result Position and Source Trustworthiness in the Selection of Web Search Results When Using a List or a Grid Interface. <i>International Journal of Human-Computer Interaction</i> , 2014, 30, 177-191.	3.3	82
20	Attentive or Not? Toward a Machine Learning Approach to Assessing Students' Visible Engagement in Classroom Instruction. <i>Educational Psychology Review</i> , 2021, 33, 27-49.	5.1	79
21	Can differences in learning strategies explain the benefits of learning from static and dynamic visualizations?. <i>Computers and Education</i> , 2011, 56, 176-187.	5.1	78
22	The influence of text modality on learning with static and dynamic visualizations. <i>Computers in Human Behavior</i> , 2011, 27, 29-35.	5.1	68
23	When adults without university education search the Internet for health information: The roles of Internet-specific epistemic beliefs and a source evaluation intervention. <i>Computers in Human Behavior</i> , 2015, 48, 297-309.	5.1	68
24	Making the abstract concrete: Visualizing mathematical solution procedures. <i>Computers in Human Behavior</i> , 2006, 22, 9-25.	5.1	67
25	Pupil Dilation and EEG Alpha Frequency Band Power Reveal Load on Executive Functions for Link-Selection Processes during Text Reading. <i>PLoS ONE</i> , 2015, 10, e0130608.	1.1	66
26	The impact of learner characteristics on information utilization strategies, cognitive load experienced, and performance in hypermedia learning. <i>Learning and Instruction</i> , 2009, 19, 387-401.	1.9	65
27	Learning with dynamic and static visualizations: Realistic details only benefit learners with high visuospatial abilities. <i>Computers in Human Behavior</i> , 2014, 36, 330-339.	5.1	60
28	Information comparisons in example-based hypermedia environments: supporting learners with processing prompts and an interactive comparison tool. <i>Educational Technology Research and Development</i> , 2008, 56, 73-92.	2.0	57
29	Is spoken text always better? Investigating the modality and redundancy effect with longer text presentation. <i>Computers in Human Behavior</i> , 2013, 29, 1590-1601.	5.1	56
30	Disfluency Meets Cognitive Load in Multimedia Learning: Does Harder to Read Mean Better to Understand?. <i>Applied Cognitive Psychology</i> , 2014, 28, 488-501.	0.9	56
31	Is This Information Source Commercially Biased? How Contradictions Between Web Pages Stimulate the Consideration of Source Information. <i>Discourse Processes</i> , 2016, 53, 430-456.	1.1	55
32	Implementation intentions during multimedia learning: Using if-then plans to facilitate cognitive processing. <i>Learning and Instruction</i> , 2015, 35, 1-15.	1.9	50
33	Watching corresponding gestures facilitates learning with animations by activating human mirror-neurons: An fNIRS study. <i>Learning and Instruction</i> , 2015, 36, 27-37.	1.9	48
34	EEG-based prediction of cognitive workload induced by arithmetic: a step towards online adaptation in numerical learning. <i>ZDM - International Journal on Mathematics Education</i> , 2016, 48, 267-278.	1.3	45
35	Explaining the modality effect in multimedia learning: Is it due to a lack of temporal contiguity with written text and pictures?. <i>Learning and Instruction</i> , 2012, 22, 92-102.	1.9	44
36	How temporal and spatial aspects of presenting visualizations affect learning about locomotion patterns. <i>Learning and Instruction</i> , 2012, 22, 193-205.	1.9	43

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37	Online EEG-Based Workload Adaptation of an Arithmetic Learning Environment. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 286.	1.0	43
38	Electroencephalography Based Analysis of Working Memory Load and Affective Valence in an N-back Task with Emotional Stimuli. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 616.	1.0	43
39	The acquisition of problem-solving skills in mathematics: How animations can aid understanding of structural problem features and solution procedures. <i>Instructional Science</i> , 2010, 38, 487-502.	1.1	42
40	Competent information search in the World Wide Web: Development and evaluation of a web training for pupils. <i>Computers in Human Behavior</i> , 2008, 24, 693-715.	5.1	41
41	Extending multimedia research: How do prerequisite knowledge and reading comprehension affect learning from text and pictures. <i>Computers in Human Behavior</i> , 2014, 31, 73-84.	5.1	41
42	Learning about locomotion patterns from visualizations: Effects of presentation format and realism. <i>Computers and Education</i> , 2011, 57, 1961-1970.	5.1	40
43	Instructional support for enhancing students' information problem solving ability. <i>Computers in Human Behavior</i> , 2008, 24, 615-622.	5.1	33
44	The speaker/gender effect: does the speaker's gender matter when presenting auditory text in multimedia messages?. <i>Instructional Science</i> , 2010, 38, 503-521.	1.1	32
45	Situated learning in the mobile age: mobile devices on a field trip to the sea. <i>Research in Learning Technology</i> , 2009, 17, 187-199.	0.5	28
46	Cross-subject workload classification using pupil-related measures. , 2018, , .		28
47	Learning about locomotion patterns: Effective use of multiple pictures and motion-indicating arrows. <i>Computers and Education</i> , 2013, 65, 45-55.	5.1	26
48	Predicting Cognitive Load in an Emergency Simulation Based on Behavioral and Physiological Measures. , 2019, , .		26
49	How the interface design influences users' spontaneous trustworthiness evaluations of web search results. , 2010, , .		26
50	Instructional design for effective and enjoyable computer-supported learning. <i>Computers in Human Behavior</i> , 2006, 22, 1-8.	5.1	25
51	Using eye-tracking and EEG to study the mental processing demands during learning of text-picture combinations. <i>International Journal of Psychophysiology</i> , 2020, 158, 201-214.	0.5	25
52	Chapter 10 How Search Engine Users Evaluate and Select Web Search Results: The Impact of the Search Engine Interface on Credibility Assessments. <i>Library and Information Science</i> , 2012, , 251-279.	0.2	23
53	What characterizes children nominated as gifted by teachers? A closer consideration of working memory and intelligence. <i>High Ability Studies</i> , 2015, 26, 75-92.	1.0	22
54	How children navigate a multiperspective hypermedia environment: The role of spatial working memory capacity. <i>Computers in Human Behavior</i> , 2016, 55, 145-158.	5.1	22

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55	Distraction during learning with hypermedia: difficult tasks help to keep task goals on track. <i>Frontiers in Psychology</i> , 2014, 5, 268.	1.1	20
56	The influence of a waiting intention on action performance: Efficiency impairment and volitional protection in tasks of varying difficulty. <i>Acta Psychologica</i> , 1997, 97, 167-182.	0.7	19
57	Brain-Computer Interfaces for Educational Applications. , 2017, , 177-201.		18
58	Lernen mit Multimedia. <i>Psychologische Rundschau</i> , 2008, 59, 98-107.	0.6	18
59	The two-component model of memory development, and its potential implications for educational settings. <i>Developmental Cognitive Neuroscience</i> , 2012, 2, S67-S77.	1.9	17
60	Toward neuroadaptive support technologies for improving digital reading: a passive BCI-based assessment of mental workload imposed by text difficulty and presentation speed during reading. <i>User Modeling and User-Adapted Interaction</i> , 2021, 31, 75-104.	2.9	17
61	Does a Strategy Training Foster Students's Ability to Learn From Multimedia?. <i>Journal of Experimental Education</i> , 2015, 83, 266-289.	1.6	16
62	A Call for an Unbiased Search for Moderators in Disfluency Research: Reply to Oppenheimer and Alter (2014). <i>Applied Cognitive Psychology</i> , 2014, 28, 805-806.	0.9	15
63	How Body Orientation Affects Concepts of Space, Time and Valence: Functional Relevance of Integrating Sensorimotor Experiences during Word Processing. <i>PLoS ONE</i> , 2016, 11, e0165795.	1.1	13
64	Readers's Processing and Use of Source Information as a Function of Its Usefulness to Explain Conflicting Scientific Claims. <i>Discourse Processes</i> , 2019, 56, 429-446.	1.1	12
65	Learning from Multimedia and Hypermedia. , 2009, , 251-272.		12
66	Verbal descriptions of spatial information can interfere with picture processing. <i>Memory</i> , 2012, 20, 682-699.	0.9	11
67	Context Sensitivity of EEG-based Workload Classification under different Affective Valence. <i>IEEE Transactions on Affective Computing</i> , 2017, , 1-1.	5.7	11
68	The role of beliefs regarding the uncertainty of knowledge and mental effort as indicated by pupil dilation in evaluating scientific controversies. <i>International Journal of Science Education</i> , 2020, 42, 350-371.	1.0	11
69	Altering emotions near the hand: Approach's avoidance swipe interactions modulate the perceived valence of emotional pictures.. <i>Emotion</i> , 2021, 21, 220-225.	1.5	11
70	Measuring Cognitive Load Using In-Game Metrics of a Serious Simulation Game. <i>Frontiers in Psychology</i> , 2021, 12, 572437.	1.1	11
71	Cross-task and Cross-participant Classification of Cognitive Load in an Emergency Simulation Game. <i>IEEE Transactions on Affective Computing</i> , 2021, , 1-1.	5.7	10
72	Distribution of attention in a gallery segment on the National Socialists's Führer cult: diving deeper into visitors's cognitive exhibition experiences using mobile eye tracking. <i>Museum Management and Curatorship</i> , 2020, 35, 71-88.	0.8	9

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73	The influence of gestures and visuospatial ability during learning about movements with dynamic visualizations – An fNIRS study. <i>Computers in Human Behavior</i> , 2022, 129, 107151.	5.1	8
74	Cognitive and socio-motivational aspects in learning with animations: there is more to it than –do they aid learning or not–™. <i>Instructional Science</i> , 2010, 38, 435-440.	1.1	7
75	Simultaneous Presentation of Multiple Documents and Text-Highlighting: Online Integrative Processes and Offline Integrated Understanding. <i>Scientific Studies of Reading</i> , 2021, 25, 179-192.	1.3	7
76	Designing Visual-Arts Education Programs for Transfer Effects: Development and Experimental Evaluation of (Digital) Drawing Courses in the Art Museum Designed to Promote Adolescents–™ Socio-Emotional Skills. <i>Frontiers in Psychology</i> , 2020, 11, 603984.	1.1	7
77	–¼EyeQ, a rich IQ test performance data set with eye movement, educational and socio-demographic information. <i>Scientific Data</i> , 2021, 8, 154.	2.4	7
78	Touching digital objects directly on multi-touch devices fosters learning about visual contents. <i>Computers in Human Behavior</i> , 2021, 119, 106708.	5.1	7
79	Hypermedia exploration stimulates multiperspective reasoning in elementary school children with high working memory capacity: A tablet computer study. <i>Learning and Individual Differences</i> , 2016, 51, 273-283.	1.5	6
80	Affective Aspects of Perceived Loss of Control and Potential Implications for Brain-Computer Interfaces. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 370.	1.0	6
81	Decision confidence: EEG correlates of confidence in different phases of an old/new recognition task. <i>Brain-Computer Interfaces</i> , 2019, 6, 162-177.	0.9	6
82	How laypersons consider differences in sources–™ trustworthiness and expertise in their regulation and resolution of scientific conflicts. <i>International Journal of Science Education, Part B: Communication and Public Engagement</i> , 2020, 10, 335-354.	0.9	6
83	Do your eye movements reveal your performance on an IQ test? A study linking eye movements and socio-demographic information to fluid intelligence. <i>PLoS ONE</i> , 2022, 17, e0264316.	1.1	6
84	Investigating professed and enacted epistemic beliefs about the uncertainty of scientific knowledge when students evaluate scientific controversies. <i>European Journal of Psychology of Education</i> , 2021, 36, 125-146.	1.3	5
85	Learning and Problem-Solving with Hypermedia in the Twenty-First Century: From Hypertext to Multiple Web Sources and Multimodal Adaptivity. , 2017, , 61-88.		5
86	Hypermedia and Self-Regulation: An Interplay in Both Directions. <i>Springer International Handbooks of Education</i> , 2013, , 129-141.	0.1	4
87	Unity and diversity in working memory load: Evidence for the separability of the executive functions updating and inhibition using machine learning. <i>Biological Psychology</i> , 2018, 139, 163-172.	1.1	4
88	Fixation-Related EEG Frequency Band Power Analysis: A Promising Neuro-Cognitive Methodology to Evaluate the Matching-Quality of Web Search Results?. <i>Communications in Computer and Information Science</i> , 2016, , 245-250.	0.4	4
89	Priming effects between spatial meaning of verbs and numbers are modulated by time intervals: Early interference and late facilitation.. <i>Canadian Journal of Experimental Psychology</i> , 2016, 70, 295-300.	0.7	4
90	Coding valence in touchscreen interactions: hand dominance and lateral movement influence valence appraisals of emotional pictures. <i>Psychological Research</i> , 2020, 84, 23-31.	1.0	3

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91	The intention was good: How promoting strategy use does not improve multimedia learning for secondary students. <i>British Journal of Educational Psychology</i> , 2021, 91, 1291-1309.	1.6	3
92	Valence-space associations in touchscreen interactions: Valence match between emotional pictures and their vertical touch location leads to pictures' positive evaluation. <i>PLoS ONE</i> , 2018, 13, e0199972.	1.1	2
93	Moved by Emotions: Affective Concepts Representing Personal Life Events Induce Freely Performed Steps in Line With Combined Sagittal and Lateral Space-Valence Associations. <i>Frontiers in Psychology</i> , 2019, 10, 2787.	1.1	2
94	Does Grammatical Number Influence the Semantic Priming Between Number Cues and Words Related to Vertical Space? An Investigation Using Virtual Reality. <i>Frontiers in Psychology</i> , 2018, 9, 573.	1.1	1
95	Diagnostik von Handlungsphasen in tutoriellen Lernsystemen. <i>Informatik Aktuell</i> , 1995, , 330-337.	0.4	1
96	Investigating the Roles of Document Presentation and Reading Interactions on Different Aspects of Multiple Document Comprehension. <i>International Journal of Human-Computer Interaction</i> , 0, , 1-14.	3.3	0