Chun-Yen Chang

List of Publications by Year
in descending order

37	950	567281 15	454955 30
papers	citations	h-index	g-index

38	38	38	620
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trends of Science Education Research: An Automatic Content Analysis. Journal of Science Education and Technology, 2010, 19, 315-331.	3.9	132
2	Do we click in the right way? A meta-analytic review of clicker-integrated instruction. Educational Research Review, 2016, 17, 1-18.	7.8	120
3	Comparison of Taiwan Science Students' Outcomes With Inquiry-Group Versus Traditional Instruction. Journal of Educational Research, 1999, 92, 340-346.	1.6	90
4	Assessing creative problem-solving with automated text grading. Computers and Education, 2008, 51, 1450-1466.	8.3	63
5	The use of a problem-solving-based instructional model in initiating change in students' achievement and alternative frameworks. International Journal of Science Education, 1999, 21, 373-388.	1.9	54
6	Title is missing!. Journal of Science Education and Technology, 2001, 10, 147-153.	3.9	51
7	Does Computer-Assisted Instruction + Problem Solving = Improved Science Outcomes? A Pioneer Study. Journal of Educational Research, 2002, 95, 143-150.	1.6	49
8	Lasting effects of instruction guided by the conflict map: Experimental study of learning about the causes of the seasons. Journal of Research in Science Teaching, 2005, 42, 1089-1111.	3.3	44
9	The interplay between different forms of CAI and students' preferences of learning environment in the secondary science class. Science Education, 2005, 89, 707-724.	3.0	43
10	Teaching earth sciences: Should we implement teacher-directed or student-controlled CAI in the secondary classroom?. International Journal of Science Education, 2003, 25, 427-438.	1.9	31
11	Preferredâ€“actual learning environment â€œspacesâ€•and earth science outcomes in Taiwan. Science Education, 2006, 90, 420-433.	3.0	29
12	The Effects on Students' Cognitive Achievement When Using the Cooperative Learning Method in Earth Science Classrooms. School Science and Mathematics, 1999, 99, 374-379.	0.9	22
13	A web-based tutoring system with styles-matching strategy for spatial geometric transformation. Interacting With Computers, 2006, 18, 331-355.	1.5	19
14	An exploratory study on students' problem-solving ability in earth science. International Journal of Science Education, 2002, 24, 441-451.	1.9	18
15	Exploring the relationship between virtual learning environment preference, use, and learning outcomes in 10th grade earth science students. Learning, Media and Technology, 2011, 36, 399-417.	3.2	18
16	The Impact of Different Forms of Multimedia CAI on Students' Science Achievement. Innovations in Education and Teaching International, 2002, 39, 280-288.	2.5	16
17	Enhancing Tenth Graders' Earth-Science Learning Through Computer-Assisted Instruction. Journal of Geoscience Education, 2000, 48, 636-640.	1.4	14
18	Issues of inquiry learning in digital learning environments. British Journal of Educational Technology, 2009, 40, 169-173.	6.3	13

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19	Exploring the Impact of Prior Knowledge and Appropriate Feedback on Students' Perceived Cognitive Load and Learning Outcomes: Animation-based earthquakes instruction. International Journal of Science Education, 2012, 34, 1555-1570.	1.9	13
20	Does Problem Solving = Prior Knowledge + Reasoning Skills in Earth Science? An Exploratory Study. Research in Science Education, 2010, 40, 103-116.	2.3	12
21	Science Learning Outcomes in Alignment with Learning Environment Preferences. Journal of Science Education and Technology, 2011, 20, 136-145.	3.9	12
22	The Impact of Congruency Between Preferred and Actual Learning Environments on Tenth Gradersâ€™ Science Literacy in Taiwan. Journal of Science Education and Technology, 2010, 19, 332-340.	3.9	11
23	The effect of a scientific board game on improving creative problem solving skills. Thinking Skills and Creativity, 2021, 41, 100921.	3.5	11
24	Assessing tenth-grade studentsâ€™ problem solving ability online in the area of Earth sciences. Computers in Human Behavior, 2007, 23, 1971-1981.	8.5	10
25	Earth Science Student Attitudes Toward a Constructivist Teaching Approach in Taiwan. Journal of Geoscience Education, 1999, 47, 331-335.	1.4	9
26	A New TPACK Training Model for Tackling the Ongoing Challenges of COVID-19. Applied System Innovation, 2022, 5, 32.	4.6	8
27	College Science Students' Perception Gaps in Preferredâ€“Actual Learning Environment in a Reformed Introductory Earth Science Course in Taiwan. Journal of Geography in Higher Education, 2010, 34, 187-203.	2.6	7
28	The Relationship between Science Achievement and Self-concept among Gifted Students from the Third International Earth Science Olympiad. Eurasia Journal of Mathematics, Science and Technology Education, 2017, 13, .	1.3	7
29	VIBRANT: A Brainstorming Agent for Computer Supported Creative Problem Solving. Lecture Notes in Computer Science, 2006, , 787-789.	1.3	7
30	Taiwanese Earth Science Curriculum Guidelines and Their Relationships to the Earth Systems Education of the United States. Journal of Geoscience Education, 2006, 54, 620-624.	1.4	6
31	Enhancing the capacities of natural hazard mitigation: a study on a typhoon curriculum module in high school earth science. Natural Hazards, 2010, 55, 423-440.	3.4	3
32	SCIENCE-EDU-COMMUNICATION: TRENDS REVEAL IN 20 YEARS OF SCIENCE COMMUNICATION RESEARCH. Journal of Baltic Science Education, 2019, 18, 793-805.	1.0	3
33	Effect of the interaction of instructional delivery model and preference of learning environment on studentsâ€™ attitudes. British Journal of Educational Technology, 2006, 37, 799-802.	6.3	2
34	Proposing ways of evaluating automatic shortâ€answer markers with multiraters. British Journal of Educational Technology, 2012, 43, E73.	6.3	2
35	Computer-assisted instruction + ? = Earth Science learning outcomes: three case studies. , 0, , .		0
36	Teachersâ€™ Responses to an Integrated STEM Module: Collaborative Curriculum Design in Taiwan, Thailand, and Vietnam. Advances in STEM Education, 2020, , 491-509.	0.5	0

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37	LEVERAGING EDUCATIONAL PATHWAY TO BRIDGE IN-SCHOOL AND OUT-OF-SCHOOL SCIENCE LEARNING: A COMPARISON OF DIFFERENT INSTRUCTIONAL DESIGNS. Journal of Baltic Science Education, 2012, 11, 275-284.	1.0	0