Chang, H-Y

List of Publications by Year
in descending order

29 papers	2,234 citations	471371 17 h-index	501076 28 g-index
29 all docs	29 docs citations	29 times ranked	1834 citing authors

#	Article	IF	Citations
1	Current status, opportunities and challenges of augmented reality in education. Computers and Education, 2013, 62, 41-49.	5.1	1,478
2	Evidence for effective uses of dynamic visualisations in science curriculum materials. Studies in Science Education, 2015, 51, 49-85.	3.4	87
3	Scaffolding learning from molecular visualizations. Journal of Research in Science Teaching, 2013, 50, 858-886.	2.0	72
4	The impact of designing and evaluating molecular animations on how well middle school students understand the particulate nature of matter. Science Education, 2010, 94, 73-94.	1.8	48
5	A review of features of technology-supported learning environments based on participantsâ€™ perceptions. Computers in Human Behavior, 2015, 53, 223-237.	5.1	48
6	University studentsâ€™ profiles of online learning and their relation to online metacognitive regulation and internet-specific epistemic justification. Computers and Education, 2021, 175, 104315.	5.1	46
7	A systematic review of trends and findings in research employing drawing assessment in science education. Studies in Science Education, 2020, 56, 77-110.	3.4	42
8	Studentsâ€™ development of socio-scientific reasoning in a mobile augmented reality learning environment. International Journal of Science Education, 2018, 40, 1410-1431.	1.0	36
9	Studentsâ€™ guided inquiry with simulation and its relation to school science achievement and scientific literacy. Computers and Education, 2020, 149, 103830.	5.1	34
10	A comparison study of augmented reality versus interactive simulation technology to support student learning of a socio-scientific issue. Interactive Learning Environments, 2016, 24, 1148-1161.	4.4	32
11	Investigating the effects of structured and guided inquiry on studentsâ€™ development of conceptual knowledge and inquiry abilities: a case study in Taiwan. International Journal of Science Education, 2016, 38, 1945-1971.	1.0	32
12	Development and implications of technology in reform-based physics laboratories. Physical Review Physics Education Research, 2012, 8, .	1.7	31
13	Using Drawing Technology to Assess Studentsâ€™ Visualizations of Chemical Reaction Processes. Journal of Science Education and Technology, 2014, 23, 355-369.	2.4	26
14	Studentsâ€™ representational competence with drawing technology across two domains of science. Science Education, 2018, 102, 1129-1149.	1.8	25
15	Studentsâ€™ Context-Specific Epistemic Justifications, Prior Knowledge, Engagement, and Socioscientific Reasoning in a Mobile Augmented Reality Learning Environment. Journal of Science Education and Technology, 2020, 29, 399-408.	2.4	24
16	Assessing Studentsâ€™ Deep Conceptual Understanding in Physical Sciences: an Example on Sinking and Floating. International Journal of Science and Mathematics Education, 2017, 15, 57-70.	1.5	21
17	The Intellectual Structure of Metacognitive Scaffolding in Science Education: A Co-citation Network Analysis. International Journal of Science and Mathematics Education, 2016, 14, 249-262.	1.5	19
18	Scaffolding Studentsâ€™ Online Critiquing of Expert- and Peer-generated Molecular Models of Chemical Reactions. International Journal of Science Education, 2013, 35, 2028-2056.	1.0	18

#	ARTICLE	IF	CITATIONS
19	Measuring epistemologies in science learning and teaching: A systematic review of the literature. Science Education, 2021, 105, 880-907.	1.8	18
20	Investigating Studentsâ€™ Conceptions of Technology-Assisted Science Learning: a Drawing Analysis. Journal of Science Education and Technology, 2019, 28, 329-340.	2.4	18
21	How to augment the learning impact of computer simulations? The designs and effects of interactivity and scaffolding. Interactive Learning Environments, 2017, 25, 1083-1097.	4.4	17
22	Teacher guidance to mediate student inquiry through interactive dynamic visualizations. Instructional Science, 2013, 41, 895-920.	1.1	14
23	The impact of light-weight inquiry with computer simulations on science learning in classrooms. Computers and Education, 2020, 146, 103770.	5.1	14
24	Investigating Taiwanese Studentsâ€™ Visualization Competence of Matter at the Particulate Level. International Journal of Science and Mathematics Education, 2018, 16, 1207-1226.	1.5	11
25	Augmenting the effect of virtual labs with "teacher demonstration" and "student critique" instructional designs to scaffold the development of scientific literacy. Instructional Science, 2022, 50, 303-333.	1.1	6
26	The Impact of a Mobile Augmented Reality Game: Changing Students' Perceptions of the Complexity of Socioscientific Reasoning. , 2016, , .		5
27	Adaptation of an Inquiry Visualization Curriculum and its Impact on Chemistry Learning. Asia-Pacific Education Researcher, 2014, 23, 605-619.	2.2	4
28	An Experienced Science Teacherâ€™s Metavisualization in the Case of the Complex System of Carbon Cycling. Research in Science Education, 2021, 51, 493-521.	1.4	4
29	Science teachersâ€™ and studentsâ€™ metavisualization in scientific modeling. Science Education, 2022, 106, 448-475.	1.8	4