Mei-Hung Chiu

List of Publications by Year in Descending Order

41 papers	1,428 citations	12 h-index	37 g-index
51 ext. papers	1,594 ext. citations	2 avg, IF	4.32 L-index

#	Paper	IF	Citations
41	Research on Modeling Competence in Science Education from 1991 to 2020 with Cultural and Global Implications. *Springer International Handbooks of Education*, **2022**, 961-1000	0.2	
40	Development and validation of an observation protocol for measuring science teachers' modeling-based teaching performance. *Journal of Research in Science Teaching*, **2021**, 58, 1359	3.4	1
39	Relationships between Facial Expressions, Prior Knowledge, and Multiple Representations: a Case of Conceptual Change for Kinematics Instruction. *Journal of Science Education and Technology*, **2021**, 30, 227-238	2.8	3
38	Globalization of Chemistry Education in Africa: Challenges and Opportunities **2021**, 1-21		
37	The Gender Gap in Science A PAC Special Topics Issue. *Pure and Applied Chemistry*, **2021**, 93, 829-830	2.1	0
36	Research on Modeling Competence in Science Education from 1991 to 2020 with Cultural and Global Implications. *Springer International Handbooks of Education*, **2021**, 1-41	0.2	
35	Gender Gap in Science. *Chemistry International*, **2020**, 42, 16-21	1.6	1
34	Reflections on Integrated Approaches to STEM Education: An International Perspective. *Advances in STEM Education*, **2020**, 543-559	0.3	
33	Identifying Systems Thinking Components in the School Science Curricular Standards of Four Countries. *Journal of Chemical Education*, **2019**, 96, 2814-2824	2.4	8
32	Modeling competence in science education. *Disciplinary and Interdisciplinary Science Education Research*, **2019**, 1,	3.4	11
31	Facial micro-expression states as an indicator for conceptual change in students' understanding of air pressure and boiling points. *British Journal of Educational Technology*, **2019**, 50, 469-480	4.3	9
30	Model-based learning about structures and properties of chemical elements and compounds via the use of augmented realities. *Chemistry Teacher International*, **2018**, 1,	1	2
29	The Gender Gap in Science. *Chemistry International*, **2018**, 40, 14-17	1.6	4
28	Evaluating Multiple Analogical Representations from Students Perceptions. *Models and Modeling in Science Education*, **2017**, 71-91	1.2	1
27	Opportunities and Challenges for Science Education in Asia: Perspectives Based on the Taiwan Experience **2016**, 175-196		1
26	Epilogue: Science Education Research and Practice in Taiwan Opportunities and Challenges **2016**, 431-441		
25	Introduction: Science Education Research and Practice in Taiwan: A Little Giant! **2016**, 1-8		0

24	The Connection between the Local Chemistry Curriculum and Chemistry Terms in the Global News: The Glocalization Perspective **2015**, 51-72		
23	The Use of Modeling-Based Text to Improve Students' Modeling Competencies. *Science Education*, **2015**, 99, 986-1018	4.3	13
22	Using facial recognition technology in the exploration of student responses to conceptual conflict phenomenon. *Chemistry Education Research and Practice*, **2014**, 15, 824-834	2.1	8
21	The role of facial microexpression state (FMES) change in the process of conceptual conflict. *British Journal of Educational Technology*, **2014**, 45, 471-486	4.3	10
20	SURVEY OF HIGH SCHOOL STUDENTS UNDERSTANDING OF OXIDATION-REDUCTION REACTION. *Journal of Baltic Science Education*, **2014**, 13, 596-607	1	4
19	Development and Application of a Scoring Rubric for Evaluating Students Experimental Skills in Organic Chemistry: An Instructional Guide for Teaching Assistants. *Journal of Chemical Education*, **2013**, 90, 1296-1302	2.4	20
18	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education: Sustainability and Globalization of Chemistry Education. *Journal of Chemical Education*, **2013**, 90, 1564-1566	2.4	2
17	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education: Young Ambassadors for Chemistry in IYC 2011. *Journal of Chemical Education*, **2013**, 90, 1547-1549	2.4	
16	Diagnosing students' mental models via the Web-Based Mental Models Diagnosis system. *British Journal of Educational Technology*, **2013**, 44, E49-E51	4.3	10
15	GLOBALIZATION AND SCIENCE EDUCATION. *Cosmos*, **2013**, 08, 139-152		10
14	International Response for Part I: Bridging the Gaps Between Policy and Practice on Equity for Science Education Reforms. *Cultural Studies of Science Education*, **2013**, 53-61	0.2	1
13	The Use of Multiple Perspectives of Conceptual Change to Investigate Students Mental Models of Gas Particles. *Innovations in Science Education and Technology*, **2013**, 143-168	0.2	2
12	Student test performances on behavior of gas particles and mismatch of teacher predictions. *Chemistry Education Research and Practice*, **2011**, 12, 238-250	2.1	6
11	Diagnostic assessment in chemistry. *Chemistry Education Research and Practice*, **2011**, 12, 119	2.1	4
10	The Mismatch between Students Mental Models of Acids/Bases and their Sources and their Teachers Anticipations thereof. *International Journal of Science Education*, **2010**, 32, 1617-1646	2.2	12
9	FIRST CYCLE OF PISA (2000 2006) INTERNATIONAL PERSPECTIVES ON SUCCESSES AND CHALLENGES: RESEARCH AND POLICY DIRECTIONS. *International Journal of Science and Mathematics Education*, **2010**, 8, 373-388	1.7	33
8	Moving PISA Results into the Policy Arena: Perspectives on Knowledge Transfer for Future Considerations and Preparations. *International Journal of Science and Mathematics Education*, **2010**, 8, 593-609	1.7	15
7	Exploring the Characteristics and Diverse Sources of Students Mental Models of Acids and Bases. *International Journal of Science Education*, **2007**, 29, 771-803	2.2	38

6	A National Survey of Students' Conceptions of Chemistry in Taiwan. *International Journal of Science Education*, **2007**, 29, 421-452	2.2	45
5	Assessing Students' Conceptual Understanding in Science: An introduction about a national project in Taiwan. *International Journal of Science Education*, **2007**, 29, 379-390	2.2	25
4	The Development of Authentic Assessments to Investigate Ninth Graders' Scientific Literacy: In the Case of Scientific Cognition Concerning the Concepts of Chemistry and Physics. *International Journal of Science and Mathematics Education*, **2005**, 3, 117-140	1.7	11
3	Promoting fourth graders' conceptual change of their understanding of electric current via multiple analogies. *Journal of Research in Science Teaching*, **2005**, 42, 429-464	3.4	63
2	Dynamic processes of conceptual change: Analysis of constructing mental models of chemical equilibrium. *Journal of Research in Science Teaching*, **2002**, 39, 688-712	3.4	88
1	Eliciting Self-Explanations Improves Understanding. *Cognitive Science*, **1994**, 18, 439-477	2.2	920