

Mei-Hung Chiu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Eliciting Self-Explanations Improves Understanding. <i>Cognitive Science</i> , 1994 , 18, 439-477	2.2	920
40	Dynamic processes of conceptual change: Analysis of constructing mental models of chemical equilibrium. <i>Journal of Research in Science Teaching</i> , 2002 , 39, 688-712	3.4	88
39	Promoting fourth graders' conceptual change of their understanding of electric current via multiple analogies. <i>Journal of Research in Science Teaching</i> , 2005 , 42, 429-464	3.4	63
38	A National Survey of Students' Conceptions of Chemistry in Taiwan. <i>International Journal of Science Education</i> , 2007 , 29, 421-452	2.2	45
37	Exploring the Characteristics and Diverse Sources of Students' Mental Models of Acids and Bases. <i>International Journal of Science Education</i> , 2007 , 29, 771-803	2.2	38
36	FIRST CYCLE OF PISA (2000-2006) INTERNATIONAL PERSPECTIVES ON SUCCESSES AND CHALLENGES: RESEARCH AND POLICY DIRECTIONS. <i>International Journal of Science and Mathematics Education</i> , 2010 , 8, 373-388	1.7	33
35	Assessing Students' Conceptual Understanding in Science: An introduction about a national project in Taiwan. <i>International Journal of Science Education</i> , 2007 , 29, 379-390	2.2	25
34	Development and Application of a Scoring Rubric for Evaluating Students' Experimental Skills in Organic Chemistry: An Instructional Guide for Teaching Assistants. <i>Journal of Chemical Education</i> , 2013 , 90, 1296-1302	2.4	20
33	Moving PISA Results into the Policy Arena: Perspectives on Knowledge Transfer for Future Considerations and Preparations. <i>International Journal of Science and Mathematics Education</i> , 2010 , 8, 593-609	1.7	15
32	The Use of Modeling-Based Text to Improve Students' Modeling Competencies. <i>Science Education</i> , 2015 , 99, 986-1018	4.3	13
31	The Mismatch between Students' Mental Models of Acids/Bases and their Sources and their Teacher's Anticipations thereof. <i>International Journal of Science Education</i> , 2010 , 32, 1617-1646	2.2	12
30	The Development of Authentic Assessments to Investigate Ninth Graders' Scientific Literacy: In the Case of Scientific Cognition Concerning the Concepts of Chemistry and Physics. <i>International Journal of Science and Mathematics Education</i> , 2005 , 3, 117-140	1.7	11
29	Modeling competence in science education. <i>Disciplinary and Interdisciplinary Science Education Research</i> , 2019 , 1,	3.4	11
28	The role of facial microexpression state (FMES) change in the process of conceptual conflict. <i>British Journal of Educational Technology</i> , 2014 , 45, 471-486	4.3	10
27	Diagnosing students' mental models via the Web-Based Mental Models Diagnosis system. <i>British Journal of Educational Technology</i> , 2013 , 44, E49-E51	4.3	10
26	GLOBALIZATION AND SCIENCE EDUCATION. <i>Cosmos</i> , 2013 , 08, 139-152		10
25	Facial micro-expression states as an indicator for conceptual change in students' understanding of air pressure and boiling points. <i>British Journal of Educational Technology</i> , 2019 , 50, 469-480	4.3	9

24	Using facial recognition technology in the exploration of student responses to conceptual conflict phenomenon. <i>Chemistry Education Research and Practice</i> , 2014 , 15, 824-834	2.1	8
23	Identifying Systems Thinking Components in the School Science Curricular Standards of Four Countries. <i>Journal of Chemical Education</i> , 2019 , 96, 2814-2824	2.4	8
22	Student test performances on behavior of gas particles and mismatch of teacher predictions. <i>Chemistry Education Research and Practice</i> , 2011 , 12, 238-250	2.1	6
21	Diagnostic assessment in chemistry. <i>Chemistry Education Research and Practice</i> , 2011 , 12, 119	2.1	4
20	SURVEY OF HIGH SCHOOL STUDENTS' UNDERSTANDING OF OXIDATION-REDUCTION REACTION. <i>Journal of Baltic Science Education</i> , 2014 , 13, 596-607	1	4
19	The Gender Gap in Science. <i>Chemistry International</i> , 2018 , 40, 14-17	1.6	4
18	Relationships between Facial Expressions, Prior Knowledge, and Multiple Representations: a Case of Conceptual Change for Kinematics Instruction. <i>Journal of Science Education and Technology</i> , 2021 , 30, 227-238	2.8	3
17	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education: Sustainability and Globalization of Chemistry Education. <i>Journal of Chemical Education</i> , 2013 , 90, 1564-1566	2.4	2
16	The Use of Multiple Perspectives of Conceptual Change to Investigate Students' Mental Models of Gas Particles. <i>Innovations in Science Education and Technology</i> , 2013 , 143-168	0.2	2
15	Model-based learning about structures and properties of chemical elements and compounds via the use of augmented realities. <i>Chemistry Teacher International</i> , 2018 , 1,	1	2
14	Opportunities and Challenges for Science Education in Asia: Perspectives Based on the Taiwan Experience 2016 , 175-196		1
13	Evaluating Multiple Analogical Representations from Students' Perceptions. <i>Models and Modeling in Science Education</i> , 2017 , 71-91	1.2	1
12	Gender Gap in Science. <i>Chemistry International</i> , 2020 , 42, 16-21	1.6	1
11	International Response for Part I: Bridging the Gaps Between Policy and Practice on Equity for Science Education Reforms. <i>Cultural Studies of Science Education</i> , 2013 , 53-61	0.2	1
10	Development and validation of an observation protocol for measuring science teachers' modeling-based teaching performance. <i>Journal of Research in Science Teaching</i> , 2021 , 58, 1359	3.4	1
9	Introduction: Science Education Research and Practice in Taiwan: A Little Giant! 2016 , 1-8		0
8	The Gender Gap in Science – A PAC Special Topics Issue. <i>Pure and Applied Chemistry</i> , 2021 , 93, 829-830	2.1	0
7	The Connection between the Local Chemistry Curriculum and Chemistry Terms in the Global News: The Glocalization Perspective 2015 , 51-72		

- 6 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
- 5 Reflections on Integrated Approaches to STEM Education: An International Perspective. *Advances in STEM Education*, **2020**, 543-559 0.3
- 4 Epilogue: Science Education Research and Practice in Taiwan Opportunities and Challenges **2016**, 431-441
- 3 Globalization of Chemistry Education in Africa: Challenges and Opportunities **2021**, 1-21
- 2 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
- 1 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