Subramaniam Ramanathan

List of Publications by Year
in descending order

32 papers	725 citations	687363 13 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	467 citing authors

#	Article	IF	Citations
1	Use of technology in biology education â€“ case of infrared thermal imaging. Journal of Biological Education, 2022, 56, 340-352.	1.5	4
2	Editorial â€” Special Issue on STEM Education. Proceedings of the Singapore National Academy of Science, 2021, 15, 77-78.	0.1	0
3	Exploring Thermal Effects and Behaviors of Chemical Substances Using an Infrared Camera. Journal of Chemical Education, 2019, 96, 2339-2344.	2.3	6
4	Mapping the conceptual space formed by studentsâ€™ understanding of coordination number of a transition metal complex: an exploratory study. Chemistry Education Research and Practice, 2019, 20, 468-483.	2.5	7
5	Comparative study of middle school studentsâ€™ attitudes towards science: Rasch analysis of entire TIMSS 2011 attitudinal data for England, Singapore and the U.S.A. as well as psychometric properties of attitudes scale. International Journal of Science Education, 2018, 40, 268-290.	1.9	9
6	Seeing in a different lightâ€”using an infrared camera to teach heat transfer and optical phenomena. Physics Education, 2018, 53, 035007.	0.5	8
7	Mapping the knowledge structure exhibited by a cohort of students based on their understanding of how a galvanic cell produces energy. Journal of Research in Science Teaching, 2018, 55, 777-809.	3.3	20
8	Using a multi-tier diagnostic test to explore the nature of studentsâ€™ alternative conceptions on reaction kinetics. Chemistry Education Research and Practice, 2018, 19, 213-226.	2.5	24
9	Use of thermal imaging for understanding simple electrical circuits. Physics Education, 2018, 53, 063002.	0.5	5
10	Report on the 4th Asian Science Editorsâ€™ Conference and Workshop. Science Editing, 2017, 4, 105-107.	0.8	0
11	How humans evolved according to grade 12 students in Singapore. Journal of Research in Science Teaching, 2016, 53, 291-323.	3.3	10
12	Diagnostic appraisal of grade 12 students' understanding of reaction kinetics. Chemistry Education Research and Practice, 2016, 17, 1114-1126.	2.5	10
13	On the prevalence of alternative conceptions on acidâ€“base chemistry among secondary students: insights from cognitive and confidence measures. Chemistry Education Research and Practice, 2016, 17, 263-282.	2.5	23
14	University Programme Preferences of High School Science Students in Singapore and Reasons that Matter in their Preferences: A Rasch analysis. International Journal of Science Education, 2015, 37, 367-388.	1.9	2
15	Exploring studentsâ€™ understanding of electrochemical cells using an enhanced two-tier diagnostic instrument. Research in Science and Technological Education, 2014, 32, 229-250.	2.5	21
16	Exploring Undergraduatesâ€™ Understanding of Transition Metals Chemistry with the use of Cognitive and Confidence Measures. Research in Science Education, 2014, 44, 801-828.	2.3	23
17	University Studentsâ€™ Understanding of Chemical Thermodynamics. International Journal of Science Education, 2013, 35, 601-635.	1.9	51
18	Message from Guest Editors â€” COSMOS Special Issue on Science Education. Cosmos, 2013, 08, 137-138.	0.4	0

#	Article	IF	Citations
19	Factors Influencing Singapore Students' Choice of Physics as a Tertiary Field of Study: A Rasch analysis. International Journal of Science Education, 2013, 35, 86-118.	1.9	29
20	On the Declining Interest in Physics among Studentsâ€"From the perspective of teachers. International Journal of Science Education, 2011, 33, 727-746.	1.9	49
21	Learning about Inheritance in an Outâ€ofâ€School Setting. International Journal of Science Education, 2011, 33, 1079-1108.	1.9	19
22	Do Students Know What They Know and What They Donâ€™t Know? Using a Four-Tier Diagnostic Test to Assess the Nature of Studentsâ€™ Alternative Conceptions. Research in Science Education, 2010, 40, 313-337.	2.3	139
23	Exploring Students' Conceptualization of the Propagation of Periodic Waves. Physics Teacher, 2010, 48, 55-59.	0.3	9
24	Development and Application of a Threeâ€Tier Diagnostic Test to Assess Secondary Studentsâ€™ Understanding of Waves. International Journal of Science Education, 2010, 32, 939-961.	1.9	149
25	Views of physics teachers on how to address the declining enrolment in physics at the university level. Research in Science and Technological Education, 2010, 28, 277-289.	2.5	10
26	From Music to Physics: The Undervalued Legacy of Pythagoras. Science and Education, 2008, 17, 449-456.	2.7	4
27	Attitudes towards science of intellectually gifted and mainstream upper primary students in Singapore. Journal of Research in Science Teaching, 2008, 45, 940-954.	3.3	63
28	Augmenting Learning in an Out-of-school Context: The Cognitive and Affective Impact of Two Cryogenics-based Enrichment Programmes on Upper Primary Students. Research in Science Education, 2007, 37, 333-351.	2.3	16
29	School Science Achievement in Japan and Singapore: A Tale of Two Cities. Educational Research for Policy and Practice, 2006, 5, 1-13.	1.9	8
30	Teaching and Learning with Tablet PCs. , 2006, , 410-424.		0
31	Virtual science centers: a new genre of learning in Web-based promotion of science education. , 2003, , .		7
32	On the Use of Different Presentation Formats in an Exhibit at a Science Center to Communicate Sea Level Rise. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 111-131.	0.4	0