

# Subramaniam Ramanathan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Development and Application of a Three-Tier Diagnostic Test to Assess Secondary Students'™ Understanding of Waves. <i>International Journal of Science Education</i> , 2010, 32, 939-961.	1.9	149
2	Do Students Know What They Know and What They Don't Know? Using a Four-Tier Diagnostic Test to Assess the Nature of Students'™ Alternative Conceptions. <i>Research in Science Education</i> , 2010, 40, 313-337.	2.3	139
3	Attitudes towards science of intellectually gifted and mainstream upper primary students in Singapore. <i>Journal of Research in Science Teaching</i> , 2008, 45, 940-954.	3.3	63
4	University Students'™ Understanding of Chemical Thermodynamics. <i>International Journal of Science Education</i> , 2013, 35, 601-635.	1.9	51
5	On the Declining Interest in Physics among Students'™ From the perspective of teachers. <i>International Journal of Science Education</i> , 2011, 33, 727-746.	1.9	49
6	Factors Influencing Singapore Students' Choice of Physics as a Tertiary Field of Study: A Rasch analysis. <i>International Journal of Science Education</i> , 2013, 35, 86-118.	1.9	29
7	Using a multi-tier diagnostic test to explore the nature of students'™ alternative conceptions on reaction kinetics. <i>Chemistry Education Research and Practice</i> , 2018, 19, 213-226.	2.5	24
8	Exploring Undergraduates'™ Understanding of Transition Metals Chemistry with the use of Cognitive and Confidence Measures. <i>Research in Science Education</i> , 2014, 44, 801-828.	2.3	23
9	On the prevalence of alternative conceptions on acid-base chemistry among secondary students: insights from cognitive and confidence measures. <i>Chemistry Education Research and Practice</i> , 2016, 17, 263-282.	2.5	23
10	Exploring students'™ understanding of electrochemical cells using an enhanced two-tier diagnostic instrument. <i>Research in Science and Technological Education</i> , 2014, 32, 229-250.	2.5	21
11	Mapping the knowledge structure exhibited by a cohort of students based on their understanding of how a galvanic cell produces energy. <i>Journal of Research in Science Teaching</i> , 2018, 55, 777-809.	3.3	20
12	Learning about Inheritance in an Out-of-School Setting. <i>International Journal of Science Education</i> , 2011, 33, 1079-1108.	1.9	19
13	Augmenting Learning in an Out-of-school Context: The Cognitive and Affective Impact of Two Cryogenics-based Enrichment Programmes on Upper Primary Students. <i>Research in Science Education</i> , 2007, 37, 333-351.	2.3	16
14	Views of physics teachers on how to address the declining enrolment in physics at the university level. <i>Research in Science and Technological Education</i> , 2010, 28, 277-289.	2.5	10
15	How humans evolved according to grade 12 students in Singapore. <i>Journal of Research in Science Teaching</i> , 2016, 53, 291-323.	3.3	10
16	Diagnostic appraisal of grade 12 students' understanding of reaction kinetics. <i>Chemistry Education Research and Practice</i> , 2016, 17, 1114-1126.	2.5	10
17	Exploring Students' Conceptualization of the Propagation of Periodic Waves. <i>Physics Teacher</i> , 2010, 48, 55-59.	0.3	9
18	Comparative study of middle school students'™ 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. <i>International Journal of Science Education</i> , 2018, 40, 268-290.	1.9	9

#	ARTICLE	IF	CITATIONS
19	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
20	Seeing in a different light using an infrared camera to teach heat transfer and optical phenomena. Physics Education, 2018, 53, 035007.	0.5	8
21	Virtual science centers: a new genre of learning in Web-based promotion of science education. , 2003, , .		7
22	Mapping the conceptual space formed by students' understanding of coordination number of a transition metal complex: an exploratory study. Chemistry Education Research and Practice, 2019, 20, 468-483.	2.5	7
23	Exploring Thermal Effects and Behaviors of Chemical Substances Using an Infrared Camera. Journal of Chemical Education, 2019, 96, 2339-2344.	2.3	6
24	Use of thermal imaging for understanding simple electrical circuits. Physics Education, 2018, 53, 063002.	0.5	5
25	From Music to Physics: The Undervalued Legacy of Pythagoras. Science and Education, 2008, 17, 449-456.	2.7	4
26	Use of technology in biology education – case of infrared thermal imaging. Journal of Biological Education, 2022, 56, 340-352.	1.5	4
27	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
28	Message from Guest Editors – COSMOS Special Issue on Science Education. Cosmos, 2013, 08, 137-138.	0.4	0
29	Editorial – Special Issue on STEM Education. Proceedings of the Singapore National Academy of Science, 2021, 15, 77-78.	0.1	0
30	Teaching and Learning with Tablet PCs. , 2006, , 410-424.		0
31	Report on the 4th Asian Science Editors' Conference and Workshop. Science Editing, 2017, 4, 105-107.	0.8	0
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