Y J Dori

List of Publications by Year
in descending order

66 papers	3,401 citations	196777 29 h-index	169272 56 g-index
68 all docs	68 docs citations	68 times ranked	1895 citing authors

#	Article	IF	Citations
1	FIRST High-School Students and FIRST Graduates: STEM Exposure and Career Choices. IEEE Transactions on Education, 2022, 65, 167-176.	2.0	11
2	Professional Growth of Novice and Experienced STEM Teachers. Journal of Science Education and Technology, 2022, 31, 129-142.	2.4	9
3	Assessing Novelty and Systems Thinking in Conceptual Models of Technological Systems. IEEE Transactions on Education, 2021, 64, 155-162.	2.0	10
4	Assessing teachersâ€™ knowledge: incorporating context-based learning in chemistry. Chemistry Education Research and Practice, 2021, 22, 1003-1019.	1.4	12
5	Choosing Chemistry at Different Education and Career Stages: Chemists, Chemical Engineers, and Teachers. Journal of Science Education and Technology, 2021, 30, 692-705.	2.4	14
6	Teaching and Assessment Methods: STEM Teachersâ€™ Perceptions and Implementation. Eurasia Journal of Mathematics, Science and Technology Education, 2021, 17, em1969.	0.7	11
7	Perceptions of STEM alumni and students on developing 21st century skills through methods of teaching and learning. Studies in Educational Evaluation, 2021, 70, 101002.	1.2	66
8	How to promote chemical literacy? On-line question posing and communicating with scientists. Chemistry Education Research and Practice, 2020, 21, 250-266.	1.4	15
9	Model-Based Systems Thinking: Assessing Engineering Student Teams. IEEE Transactions on Education, 2020, 63, 39-47.	2.0	17
10	STEM Graduate Studentsâ€™ Systems Thinking, Modeling and Scientific Understandingâ€"The Case of Food Production. Applied Sciences (Switzerland), 2020, 10, 7417.	1.3	9
11	The Effect of the FIRST Robotics Program on Its Graduates. Robotics, 2020, 9, 84.	2.1	7
12	Trends and perceptions of choosing chemistry as a major and a career. Chemistry Education Research and Practice, 2020, 21, 668-684.	1.4	47
13	A Holistic Approach to Incorporating Sustainability into Chemistry Education in Israel. ACS Symposium Series, 2020, , 125-160.	0.5	2
14	Transition into Teaching: Second Career Teachersâ€™ Professional Identity. Eurasia Journal of Mathematics, Science and Technology Education, 2020, 16, em1891.	0.7	8
15	Mathematics for Computer Science: A Flipped Classroom with an Optional Project. Eurasia Journal of Mathematics, Science and Technology Education, 2020, 16, em1915.	0.7	8
16	Graphical Tools for Conceptualizing Systems Thinking in Chemistry Education. Journal of Chemical Education, 2019, 96, 2888-2900.	1.1	37
17	Metacognition in Chemistry Education: A Literature Review. Israel Journal of Chemistry, 2019, 59, 583-597.	1.0	16
18	Applications of Systems Thinking in STEM Education. Journal of Chemical Education, 2019, 96, 2742-2751.	1.1	86

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19	Systems thinking of pre- and in-service science and engineering teachers. International Journal of Science Education, 2019, 41, 248-279.	1.0	34
20	Context and Implications Document for: Toward narrowing the gap between science communication and science education disciplines. Review of Education, 2019, 7, 567-569.	1.1	0
21	Toward narrowing the gap between science communication and science education disciplines. Review of Education, 2019, 7, 525-566.	1.1	6
22	Studentsâ€™ Metacognition and Metacognitive Strategies in Science Education. Innovations in Science Education and Technology, 2018, , 33-64.	0.1	32
23	Gender-fair assessment of young gifted studentsâ€™ scientific thinking skills. International Journal of Science Education, 2018, 40, 595-620.	1.0	8
24	SWOT Analysis of STEM Education in Academia: The Disciplinary versus Cross Disciplinary Conflict. Springer Briefs in Education, 2018, , 25-41.	0.2	2
25	How does STEM context-based learning work: what we know and what we still do not know. International Journal of Science Education, 2018, 40, 1095-1107.	1.0	62
26	Context-based learning and metacognitive prompts for enhancing scientific text comprehension. International Journal of Science Education, 2018, 40, 1198-1220.	1.0	55
27	STEM Teachersâ€™ SWOT Analysis of STEM Education: The Bureaucraticâ€“Professional Conflict. Springer Briefs in Education, 2018, , 1-23.	0.2	3
28	Meta-assessment in a project-based systems engineering course. Assessment and Evaluation in Higher Education, 2017, 42, 607-624.	3.9	28
29	The case of middle and high school chemistry teachers implementing technology: using the concerns-based adoption model to assess change processes. Chemistry Education Research and Practice, 2017, 18, 214-232.	1.4	18
30	Differences and Developments in Attitudes and Self-Efficacy of Prospective Chemistry Teachers Concerning the Use of ICT in Education. Eurasia Journal of Mathematics, Science and Technology Education, 2017, 13, .	0.7	38
31	Looking through the Eyes of Mentors and Novice Teachers: Perceptions Regarding Mentoring Experiences. Procedia, Social and Behavioral Sciences, 2016, 228, 149-153.	0.5	4
32	Career Choice of Undergraduate Engineering Students. Procedia, Social and Behavioral Sciences, 2016, 228, 222-228.	0.5	30
33	A three-attribute transfer skills framework â€“ part II: applying and assessing the model in science education. Chemistry Education Research and Practice, 2015, 16, 154-167.	1.4	11
34	Learning quantum chemistry via a visual-conceptual approach: students' bidirectional textual and visual understanding. Chemistry Education Research and Practice, 2014, 15, 297-310.	1.4	62
35	Assessing Advanced High School and Undergraduate Studentsâ€™ Thinking Skills: The Chemistryâ€”From the Nanoscale to Microelectronics Module. Journal of Chemical Education, 2014, 91, 1306-1317.	1.1	25
36	A three-attribute transfer skills framework â€“ part I: establishing the model and its relation to chemical education. Chemistry Education Research and Practice, 2013, 14, 363-375.	1.4	24

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37	How to Outline Objectives for Chemistry Education and how to Assess Them. , 2013, , 37-65.		9
38	Teaching Thinking Skills in Context-Based Learning: Teachersâ€™ Challenges and Assessment Knowledge. Journal of Science Education and Technology, 2012, 21, 207-225.	2.4	103
39	Assessing high school chemistry studentsâ€™ modeling sub-skills in a computerized molecular modeling learning environment. Instructional Science, 2012, 40, 69-91.	1.1	46
40	The Relationship Between Metacognition and the Ability to Pose Questions in Chemical Education. Contemporary Trends and Issues in Science Education, 2012, , 165-195.	0.2	29
41	Experiential Engineering Through iGEMâ€"An Undergraduate Summer Competition in Synthetic Biology. Journal of Science Education and Technology, 2011, 20, 156-160.	2.4	33
42	Science Education in Primary Schools: Is an Animation Worth a Thousand Pictures?. Journal of Science Education and Technology, 2011, 20, 608-620.	2.4	44
43	Development and implementation of inquiry-based and computerized-based laboratories: reforming high school chemistry in Israel. Chemistry Education Research and Practice, 2010, 11, 218-228.	1.4	42
44	Question Posing, Inquiry, and Modeling Skills of Chemistry Students in the Case-Based Computerized Laboratory Environment. International Journal of Science and Mathematics Education, 2009, 7, 597-625.	1.5	62
45	Metacognition in chemical education: question posing in the case-based computerized learning environment. Instructional Science, 2009, 37, 403-436.	1.1	58
46	Reusable and Sustainable Science and Engineering Education. Journal of Science Education and Technology, 2008, 17, 121-123.	2.4	5
47	Chemical understanding and graphing skills in an honors caseâ€based computerized chemistry laboratory environment: The value of bidirectional visual and textual representations. Journal of Research in Science Teaching, 2008, 45, 219-250.	2.0	102
48	How Much Have They Retained? Making Unseen Concepts Seen in a Freshman Electromagnetism Course at MIT. Journal of Science Education and Technology, 2007, 16, 299-323.	2.4	55
49	Enhancing undergraduate students' chemistry understanding through project-based learning in an IT environment. Science Education, 2005, 89, 117-139.	1.8	203
50	Caseâ€based Longâ€term Professional Development of Science Teachers. International Journal of Science Education, 2005, 27, 1413-1446.	1.0	55
51	How Does Technology-Enabled Active Learning Affect Undergraduate Students' Understanding of Electromagnetism Concepts?. Journal of the Learning Sciences, 2005, 14, 243-279.	2.0	350
52	HOCS-PROMOTING ASSESSMENT OF STUDENTSâ€™ PERFORMANCE ON ENVIRONMENT-RELATED UNDERGRADUATE CHEMISTRY. Chemistry Education Research and Practice, 2004, 5, 175-184.	1.4	11
53	From nationwide standardized testing to school-based alternative embedded assessment in Israel: Students' performance in the matriculation 2000 project. Journal of Research in Science Teaching, 2003, 40, 34-52.	2.0	73
54	Multidimensional analysis system for quantitative chemistry problems: Symbol, macro, micro, and process aspects. Journal of Research in Science Teaching, 2003, 40, 278-302.	2.0	120

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55	Teaching biotechnology through case studies?can we improve higher order thinking skills of nonscience majors?. Science Education, 2003, 87, 767-793.	1.8	146
56	A Web-Based Chemistry Course as a Means To Foster Freshmen Learning. Journal of Chemical Education, 2003, 80, 1084.	1.1	91
57	Higher Order Thinking Skills and Low-Achieving Students: Are They Mutually Exclusive?. Journal of the Learning Sciences, 2003, 12, 145-181.	2.0	347
58	Formal and informal collaborative projects: Engaging in industry with environmental awareness. Science Education, 2000, 84, 95-113.	1.8	91
59	COMPUTERIZED MOLECULAR MODELING - THE NEW TECHNOLOGY FOR ENHANCING MODEL PERCEPTION AMONG CHEMISTRY EDUCATORS AND LEARNERS. Chemistry Education Research and Practice, 2000, 1, 109-120.	1.4	48
60	Question-posing capability as an alternative evaluation method: Analysis of an environmental case study. Journal of Research in Science Teaching, 1999, 36, 411-430.	2.0	185
61	Title is missing!. Journal of Science Education and Technology, 1999, 8, 257-271.	2.4	103
62	The â€˜Mole Environmentâ€™ studyware: applying multidimensional analysis to quantitative chemistry problems. International Journal of Science Education, 1998, 20, 317-333.	1.0	26
63	Inâ€service chemistry teachersâ€™ training: the impact of introducing computer technology on teachersâ€™ attitudes and classroom implementation. International Journal of Science Education, 1997, 19, 577-592.	1.0	28
64	Analysis of an Induction Model. Journal of in-Service Education, 1996, 22, 335-356.	0.3	8
65	â€œThe Mole Environmentâ€Development and Implementation of Studyware. Journal of Chemical Information and Computer Sciences, 1996, 36, 625-628.	2.8	6
66	Success on Algorithmic and LOCS vs. Conceptual Chemistry Exam Questions. Journal of Chemical Education, 1995, 72, 987.	1.1	88