

# Shane Brown

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

350  
citations

1040056

9  
h-index

940533

16  
g-index

35  
all docs

35  
docs citations

35  
times ranked

234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing Engineering Student and Practitioner Performance on the Strength of Materials Concept Inventory: Results and Implications. Journal of Civil Engineering Education, 2022, 148, .	1.4	1
2	Differences between Professionals and Students in Their Visual Attention on Multiple Representation Types While Solving an Open-Ended Engineering Design Problem. Journal of Civil Engineering Education, 2021, 147, .	1.4	6
3	Traffic Signal Phasing Problem-Solving Rationales of Professional Engineers Developed from Eye-Tracking and Clinical Interviews. Transportation Research Record, 2019, 2673, 685-696.	1.9	3
4	Exploring differences in Statics Concept Inventory scores among students and practitioners. Journal of Engineering Education, 2019, 108, 119-135.	3.0	7
5	Framework Theory of Conceptual Change to Interpret Undergraduate Engineering Students' Explanations About Mechanics of Materials Concepts. Journal of Engineering Education, 2018, 107, 113-139.	3.0	13
6	Conceptual Growth in Engineering Practice. Journal of Engineering Education, 2018, 107, 318-348.	3.0	22
7	Accounting for Context beyond Domain: An Authentic Practice-based Framework for Advancing Personal Epistemology Research. International Journal of Learning and Development, 2017, 7, 73.	0.2	1
8	Squaring Philosophy of Engineering Through Personal Epistemologies Research. Philosophy of Engineering and Technology, 2017, , 23-41.	0.3	0
9	Holistic and Iterative Development and Dissemination of Conceptual Traffic Signal Questions. Journal of Professional Issues in Engineering Education and Practice, 2016, 142, 04016010.	0.9	1
10	A factor analysis of Statics Concept Inventory data from practicing civil engineers. , 2016, , .		4
11	Improving teenage driver perceptions regarding the impact of distracted driving in the Pacific Northwest. Journal of Transportation Safety and Security, 2016, 8, 148-163.	1.6	10
12	Epistemological Foundations of Global Competencies: A New Theory to Advance Research on Global Competencies. , 2015, , 26.680.1.		1
13	Lessons Learned from Collaborative Development of Research-based Course Materials. , 2015, , 26.1085.1.		0
14	Practicing Civil Engineersâ€™ Understanding of Statics Concept Inventory Questions. , 2015, , 26.1236.1.		5
15	Conceptual Change and Misconceptions in Engineering Education. , 2014, , 83-102.		46
16	Exploring conceptual understanding and personal epistemologies through metaphor. , 2014, , .		0
17	The Personal Epistemologies of Civil Engineering Faculty. Journal of Engineering Education, 2014, 103, 388-416.	3.0	63
18	Influence of Collaborative Curriculum Design on Educational Beliefs, Communities of Practitioners, and Classroom Practice in Transportation Engineering Education. Journal of Professional Issues in Engineering Education and Practice, 2014, 140, .	0.9	4

#	ARTICLE	IF	CITATIONS
19	Traffic Signal System Misconceptions across three Cohorts. Transportation Research Record, 2014, 2414, 52-62.	1.9	6
20	What Do We Mean by Cyberlearning: Characterizing a Socially Constructed Definition with Experts and Practitioners. Journal of Science Education and Technology, 2013, 22, 90-102.	3.9	9
21	Embedded Knowledge in Transportation Engineering: Comparisons between Engineers and Instructors. Journal of Professional Issues in Engineering Education and Practice, 2013, 139, 51-58.	0.9	11
22	Evaluating the Effectiveness of Dynamic Traffic Animations: Case Study in Transportation Engineering Education. Journal of Professional Issues in Engineering Education and Practice, 2013, 139, 196-205.	0.9	5
23	Search engine for engineering education assessment instruments. , 2013, , .		0
24	Assessing the application of three theories of conceptual change to interdisciplinary data sets. , 2012, , .		6
25	Work in progress: Theoretical approach to characterizing changes in students' and engineers' conceptual understanding and personal epistemologies. , 2012, , .		3
26	The Adoption of a Capstone Assessment Instrument. Journal of Engineering Education, 2012, 101, 657-678.	3.0	15
27	Work in progress: Do students need to learn to speak "Engineering-ese?" conceptual change as language acquisition in engineering. , 2012, , .		2
28	Student Understanding of Sight Distance in Geometric Design. Transportation Research Record, 2010, 2199, 1-8.	1.9	7
29	Process for Improving Design of Transportation Curriculum Materials with Examples. Transportation Research Record, 2010, 2199, 18-27.	1.9	9
30	An Investigation of Students' Conceptual Understanding in Related Sophomore to Graduate-Level Engineering and Mechanics Courses. Journal of Engineering Education, 2009, 98, 111-129.	3.0	68
31	An Investigation of the Presence and Development of Social Capital in an Electrical Engineering Laboratory. Journal of Engineering Education, 2009, 98, 93-102.	3.0	8
32	Using interviews to Identify Student misconceptions in dynamics. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	10
33	Development, implementation, and assessment of a bending stress tutorial. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	2
34	Prevalence of Inscriptions in Transportation Engineering Text: Clues to Context. , 0, , .		1
35	Concepts in Roundabout Resources: A Comparison Between Academic and Practical Text Using Content Analysis. , 0, , .		1