

# Julie S Linsey

## List of Publications by Year in descending order

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62  
papers

1,354  
citations

516710

16  
h-index

395702

33  
g-index

62  
all docs

62  
docs citations

62  
times ranked

642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design prototyping methods: state of the art in strategies, techniques, and guidelines. Design Science, 2017, 3, .	2.1	147
2	Modality and representation in analogy. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2008, 22, 85-100.	1.1	134
3	Fundamental studies in Design-by-Analogy: A focus on domain-knowledge experts and applications to transactional design problems. Design Studies, 2014, 35, 232-272.	3.1	105
4	Empirical Studies of Designer Thinking: Past, Present, and Future. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	85
5	Physical Models and Design Thinking: A Study of Functionality, Novelty and Variety of Ideas. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	80
6	The effects of representation on idea generation and design fixation: A study comparing sketches and function trees. Design Studies, 2016, 42, 110-136.	3.1	77
7	Design Fixation and Its Mitigation: A Study on the Role of Expertise. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	56
8	A study on the role of physical models in the mitigation of design fixation. Journal of Engineering Design, 2014, 25, 25-43.	2.3	56
9	The effects of time and incubation on design concept generation. Design Studies, 2014, 35, 500-526.	3.1	51
10	Role of Sunk Cost in Engineering Idea Generation: An Experimental Investigation. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	50
11	An experimental study on the effects of a computational design tool on concept generation. Design Studies, 2009, 30, 676-703.	3.1	49
12	A Three-Pronged Approach for Overcoming Design Fixation. Journal of Creative Behavior, 2011, 45, 83-91.	2.9	38
13	Design Fixation in Physical Modeling: An Investigation on the Role of Sunk Cost. , 2011, , .		34
14	Examining design fixation in engineering idea generation: the role of example modality. International Journal of Design Creativity and Innovation, 2013, 1, 109-129.	1.2	30
15	A Step Beyond to Overcome Design Fixation: A Design-by-Analogy Approach. , 2015, , 607-624.		22
16	Physical Models in Idea Generation: Hindrance or Help?. , 2010, , .		20
17	Exploring Automated Text Classification to Improve Keyword Corpus Search Results for Bioinspired Design. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	2.9	19
18	Identifying Critical Functions for Use Across Engineering Design Domains. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	2.9	19

#	ARTICLE	IF	CITATIONS
19	Mechanix: A natural sketch interface tool for teaching truss analysis and free-body diagrams. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 169-192.	1.1	18
20	A study on the effects of example familiarity and modality on design fixation. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 171-184.	1.1	17
21	Methods for Prototyping Strategies in Conceptual Phases of Design: Framework and Experimental Assessment. , 2013, , .		16
22	Itâ€™s Not Just about Accuracy. ACM Transactions on Interactive Intelligent Systems, 2018, 8, 1-47.	3.7	16
23	Representing analogies to influence fixation and creativity: A study comparing computer-aided design, photographs, and sketches. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2015, 29, 161-171.	1.1	14
24	Participation pathways for women into university makerspaces. Journal of Engineering Education, 2021, 110, 700-717.	3.0	13
25	Report on Engineering Design Self-Efficacy and Demographics of Makerspace Participants Across Three Universities. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	13
26	Impacting Designer Creativity Through IT-Enabled Concept Generation. Journal of Computing and Information Science in Engineering, 2010, 10, .	2.7	11
27	Empirical Studies of Design Thinking: Past, Present, Future. , 2013, , .		11
28	Overcoming Cognitive Challenges in Bioinspired Design and Analogy. , 2014, , 221-244.		11
29	A Study on the Role of Expertise in Design Fixation and its Mitigation. , 2012, , .		10
30	Frameworks for organising design performance metrics. Journal of Engineering Design, 2016, 27, 175-204.	2.3	10
31	Transforming functional models to critical chain models via expert knowledge and automatic parsing rules for design analogy identification. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2017, 31, 501-511.	1.1	10
32	â€œA Makerspace Is More Than Just a Room Full of Toolsâ€: What Learning Looks Like for Female Students in Makerspaces. , 2018, , .		10
33	Understanding physical models in design cognition: A triangulation of qualitative and laboratory studies. , 2011, , .		9
34	Evaluation of a natural sketch interface for truss FBDs and analysis. , 2011, , .		9
35	Mechanix. , 2015, , .		9
36	Characterizing the Effects of Multiple Analogs and Extraneous Information for Novice Designers in Design-by-Analogy. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	9

#	ARTICLE	IF	CITATIONS
37	A pilot exploration of systematic ideation methods and tools on design learning. , 2010, , .		7
38	Making a Makerspace: Identified Practices in the Formation of a University Makerspace. Engineering Studies, 2021, 13, 8-29.	1.3	7
39	A bridge to systems thinking in engineering design: An examination of studentsâ€™ ability to identify functions at varying levels of abstraction. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2017, 31, 535-549.	1.1	6
40	Mitigation of Design Fixation in Engineering Idea Generation: A Study on the Role of Defixation Instructions. Lecture Notes in Mechanical Engineering, 2013, , 113-124.	0.4	5
41	Understanding the prototyping strategies of experienced designers. , 2015, , .		4
42	Leveraging Trends in Student Interaction to Enhance the Effectiveness of Sketch-Based Educational Software. Human-computer Interaction Series, 2016, , 103-114.	0.6	4
43	Evaluating the Directed Method for Bioinspired Design. , 2012, , .		3
44	Spanning the complexity chasm: A research approach to move from simple to complex engineering systems. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 369-384.	1.1	3
45	Helping students to find biological inspiration: Impact of valuableness and presentation format. , 2014, , .		3
46	Exploring meaning-making and innovation in makerspaces: An ethnographic study of student and faculty perspectives. , 2017, , .		3
47	Incorporating industrial design pedagogy into a mechanical engineering graphics course: a discipline-based education research (DBER) approach. International Journal of STEM Education, 2018, 5, 29.	5.0	3
48	Academic makerspaces as a â€œdesign journeyâ€: developing a learning model for how women students tap into their â€œtoolbox of designâ€. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2020, 34, 363-373.	1.1	3
49	Designing with examples: a study on the role of familiarity, warnings and physical modelling. Journal of Engineering Design, 2020, 31, 552-573.	2.3	3
50	Exploring Multiple Solutions and Multiple Analogies to Support Innovative Design. , 2011, , 209-227.		3
51	Innovation in graduate projects: Learning to identify critical functions. , 2013, , .		2
52	A Study on the Impact of a Statics Sketch-Based Tutoring System Through a Truss Design Problem. , 2020, , .		2
53	Understanding the Art of Design: Tools for the Next Edisonian Innovators. Psychology of Learning and Motivation - Advances in Research and Theory, 2006, 47, 65-122.	1.1	1
54	Work in progress &#x2014; Understanding design fixation: A sunk cost perspective on innovation. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
55	Principles of Green Design: Analyzing User Activities and Product Feedback. , 2012, , .		1
56	Inspiring Multiple Solutions from a Single Analog. , 2010, , .		1
57	Sketching Assessment in Engineering Education: A Systematic Literature Review. , 2021, , .		1
58	A Study on the Representation of Examples in Learning Engineering Concepts. , 2012, , .		0
59	Physical modeling in design projects: Development and testing of a new design method. , 2012, , .		0
60	Design Computing and Cognition (DCC'12). Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 113-114.	1.1	0
61	Identifying Design Analogies thru Models of Function, Flow and Performance. , 2021, , 387-423.		0
62	Comparing parallel and iterative prototyping strategies during engineering design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2022, 33, 173.	2.1	0