Jeffrey Heer

List of Publications by Year
in descending order

59 papers	8,996 citations	101496 36 h-index	243529 44 g-index
59 all docs	59 docs citations	59 times ranked	5904 citing authors

#	Article	IF	Citations
1	D³ Data-Driven Documents. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2301-2309.	2.9	2,206
2	Narrative Visualization: Telling Stories with Data. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1139-1148.	2.9	736
3	Vega-Lite: A Grammar of Interactive Graphics. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 341-350.	2.9	456
4	Wrangler. , 2011, , .		395
5	Animated Transitions in Statistical Data Graphics. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1240-1247.	2.9	309
6	Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 649-658.	2.9	287
7	Enterprise Data Analysis and Visualization: An Interview Study. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2917-2926.	2.9	275
8	Protovis: A Graphical Toolkit for Visualization. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1121-1128.	2.9	236
9	Research directions in data wrangling: Visualizations and transformations for usable and credible data. Information Visualization, 2011, 10, 271-288.	1.2	233
10	Graphical Histories for Visualization: Supporting Analysis, Communication, and Evaluation. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1189-1196.	2.9	210
11	Interactive dynamics for visual analysis. Communications of the ACM, 2012, 55, 45-54.	3.3	201
12	Scented Widgets: Improving Navigation Cues with Embedded Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1129-1136.	2.9	200
13	The Effects of Interactive Latency on Exploratory Visual Analysis. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2122-2131.	2.9	198
14	Reactive Vega: A Streaming Dataflow Architecture for Declarative Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 659-668.	2.9	177
15	Voyager 2. , 2017, , .		177
16	Voyagers and voyeurs. Communications of the ACM, 2009, 52, 87-97.	3.3	165
17	Design Considerations for Collaborative Visual Analytics. Information Visualization, 2008, 7, 49-62.	1.2	163
18	Formalizing Visualization Design Knowledge as Constraints: Actionable and Extensible Models in Draco. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 438-448.	2.9	154

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19	Lyra: An Interactive Visualization Design Environment. Computer Graphics Forum, 2014, 33, 351-360.	1.8	140
20	Altair: Interactive Statistical Visualizations for Python. Journal of Open Source Software, 2018, 3, 1057.	2.0	130
21	Software Design Patterns for Information Visualization. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 853-860.	2.9	128
22	Agency plus automation: Designing artificial intelligence into interactive systems. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1844-1850.	3.3	119
23	Reverseâ€Engineering Visualizations: Recovering Visual Encodings from Chart Images. Computer Graphics Forum, 2017, 36, 353-363.	1.8	117
24	Does Binding of Synesthetic Color to the Evoking Grapheme Require Attention?. Cortex, 2006, 42, 232-242.	1.1	95
25	Divided Edge Bundling for Directional Network Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2354-2363.	2.9	91
26	Learning Perceptual Kernels for Visualization Design. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1933-1942.	2.9	84
27	Differentiating language usage through topic models. Poetics, 2013, 41, 607-625.	0.6	83
28	Declarative Language Design for Interactive Visualization. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1149-1156.	2.9	80
29	Perceptual Guidelines for Creating Rectangular Treemaps. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 990-998.	2.9	75
30	Authoring Narrative Visualizations with Ellipsis. Computer Graphics Forum, 2014, 33, 361-370.	1.8	71
31	Similarity in transgender and cisgender childrenâ€™s gender development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24480-24485.	3.3	70
32	Identifying medical terms in patient-authored text: a crowdsourcing-based approach. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1120-1127.	2.2	67
33	A demonstration of the BigDAWG polystore system. Proceedings of the VLDB Endowment, 2015, 8, 1908-1911.	2.1	65
34	Towards a general-purpose query language for visualization recommendation. , 2016, , .		63
35	GraphScape. , 2017, , .		59
36	Assessing Effects of Task and Data Distribution on the Effectiveness of Visual Encodings. Computer Graphics Forum, 2018, 37, 157-167.	1.8	57

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37	Characterizing Exploratory Visual Analysis: A Literature Review and Evaluation of Analytic Provenance in Tableau. Computer Graphics Forum, 2019, 38, 145-159.	1.8	56
38	Latent Space Cartography: Visual Analysis of Vector Space Embeddings. Computer Graphics Forum, 2019, 38, 67-78.	1.8	52
39	Colony life history and lifetime reproductive success of red harvester ant colonies. Journal of Animal Ecology, 2013, 82, 540-550.	1.3	48
40	Idyll. , 2018, , .		48
41	Separating the swarm. , 2002, , .		45
42	Induced lexico-syntactic patterns improve information extraction from online medical forums. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 902-909.	2.2	44
43	Regression by Eye. , 2017, , .		34
44	Orion: A system for modeling, transformation and visualization of multidimensional heterogeneous networks. Information Visualization, 2014, 13, 111-133.	1.2	33
45	Natural language translation at the intersection of AI and HCI. Communications of the ACM, 2015, 58, 46-53.	3.3	33
46	Human Effort and Machine Learnability in Computer Aided Translation. , 2014, , .		31
47	What did they do? understanding clickstreams with the WebQuilt visualization system. , 2002, , .		28
48	Visual Embedding: A Model for Visualization. IEEE Computer Graphics and Applications, 2014, 34, 10-15.	1.0	27
49	Refinery: Visual Exploration of Large, Heterogeneous Networks through Associative Browsing. Computer Graphics Forum, 2015, 34, 301-310.	1.8	27
50	Dziban: Balancing Agency & Automation in Visualization Design via Anchored Recommendations. , 2020, , .		27
51	Paths Explored, Paths Omitted, Paths Obscured: Decision Points & Selective Reporting in End-to-End Data Analysis. , 2020, , .		22
52	Perfopticon: Visual Query Analysis for Distributed Databases. Computer Graphics Forum, 2015, 34, 71-80.	1.8	13
53	Position statement: The case for a visualization performance benchmark. , 2017, , .		13
54	SetCoLa: High†Level Constraints for Graph Layout. Computer Graphics Forum, 2018, 37, 537-548.	1.8	11

#	Article	IF	Citations
55	Capture & Analysis of Active Reading Behaviors for Interactive Articles on the Web. Computer Graphics Forum, 2019, 38, 687-698.	1.8	9
56	Exploring the Effects of Aggregation Choices on Untrained Visualization Users' Generalizations From Data. Computer Graphics Forum, 2020, 39, 33-48.	1.8	7
57	Visualizing Urban Accessibility: Investigating Multi-Stakeholder Perspectives through a Map-based Design Probe Study. , 2022, , .		7
58	Gemini^2: Generating Keyframe-Oriented Animated Transitions Between Statistical Graphics. , 2021, , .		6
59	Tisane: Authoring Statistical Models via Formal Reasoning from Conceptual and Data Relationships. , 2022, , .		3