Katy BÃ¶rner

List of Publications by Year
in descending order

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88	7,110	156536	107981
papers	citations	32 h-index	68 g-index

95	95	95	7302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimizing Performance and Satisfaction in Matching and Movement Tasks in Virtual Reality with Interventions Using the Data Visualization Literacy Framework. Frontiers in Virtual Reality, 2022, 2, .	2.5	3
2	Leveraging online shopping behaviors as a proxy for personal lifestyle choices: New insights into chronic disease prevention literacy. Digital Health, 2022, 8, 205520762210890.	0.9	0
3	A biomedical open knowledge network harnesses the power of AI to understand deep human biology. AI Magazine, 2022, 43, 46-58.	1.4	5
4	Viv: multiscale visualization of high-resolution multiplexed bioimaging data on the web. Nature Methods, 2022, 19, 515-516.	9.0	21
5	Visualizing big science projects. Nature Reviews Physics, 2021, 3, 753-761.	11.9	8
6	3D virtual reality vs. 2D desktop registration user interface comparison. PLoS ONE, 2021, 16, e0258103.	1.1	13
7	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. Nature Cell Biology, 2021, 23, 1117-1128.	4.6	68
8	The impact of air transport availability on research collaboration: A case study of four universities. PLoS ONE, 2020, 15, e0238360.	1.1	4
9	Communityâ€based data integration of course and job data in support of personalized careerâ€education recommendations. Proceedings of the Association for Information Science and Technology, 2020, 57, e324.	0.3	6
10	Job postings in the substance use disorder treatment related sector during the first five years of Medicaid expansion. PLoS ONE, 2020, 15, e0228394.	1.1	4
11	Considerations for Using the Vasculature as a Coordinate System to Map All the Cells in the Human Body. Frontiers in Cardiovascular Medicine, 2020, 7, 29.	1.1	19
12	Mapping the co-evolution of artificial intelligence, robotics, and the internet of things over 20 years (1998-2017). PLoS ONE, 2020, 15, e0242984.	1.1	7
13	â€œThen and Now,â€•Mapping the 25 Year Evolution and Impact of North American Vascular Biology Organization Science Through Publications of its Founding and Current Members. Frontiers in Research Metrics and Analytics, 2020, 5, 591090.	0.9	0
14	Title is missing!. , 2020, 15, e0228394.		0
15	Title is missing!. , 2020, 15, e0228394.		0
16	Title is missing!. , 2020, 15, e0228394.		0
17	Title is missing!. , 2020, 15, e0228394.		0
18	Title is missing!. , 2020, 15, e0242984.		0

#	Article	IF	Citations
19	Title is missing!. , 2020, 15, e0242984.		0
20	Title is missing!. , 2020, 15, e0242984.		0
21	Title is missing!. , 2020, 15, e0242984.		0
22	Title is missing!. , 2020, 15, e0242984.		0
23	Title is missing!. , 2020, 15, e0242984.		0
24	Data visualization literacy: Definitions, conceptual frameworks, exercises, and assessments. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1857-1864.	3.3	158
25	Visualizing learner engagement, performance, and trajectories to evaluate and optimize online course design. PLoS ONE, 2019, 14, e0215964.	1.1	24
26	Science Forecasts: Modeling and Communicating Developments in Science, Technology, and Innovation. Springer Handbooks, 2019, , 145-157.	0.3	0
27	Science of science. Science, 2018, 359, .	6.0	701
28	Science map metaphors: a comparison of network versus hexmap-based visualizations. Scientometrics, 2018, 114, 409-426.	1.6	4
29	Scientific progress despite irreproducibility: A seeming paradox. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2632-2639.	3.3	43
30	Skill discrepancies between research, education, and jobs reveal the critical need to supply soft skills for the data economy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12630-12637.	3.3	77
31	Forecasting innovations in science, technology, and education. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12573-12581.	3.3	25
32	Toward a more scientific science. Science, 2018, 361, 1194-1197.	6.0	34
33	High-impact and transformative science (HITS) metrics: Definition, exemplification, and comparison. PLoS ONE, 2018, 13, e0200597.	1.1	9
34	XD Metrics on Demand Value Analytics: Visualizing the Impact of Internal Information Technology Investments on External Funding, Publications, and Collaboration Networks. Frontiers in Research Metrics and Analytics, 2018, 2, .	0.9	3
35	Plug-and-Play Macroscopes: Network Workbench (NWB), Science of Science Tool (Sci2), and Epidemiology Tool (EpiC). , 2018, , 1790-1800.		0
36	MOOC visual analytics: Empowering students, teachers, researchers, and platform developers of massively open online courses. Journal of the Association for Information Science and Technology, 2017, 68, 2350-2363.	1.5	15

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37	An efficient system to fund science: from proposal review to peer-to-peer distributions. Scientometrics, 2017, 110, 521-528.	1.6	40
38	Multi-level computational methods for interdisciplinary research in the HathiTrust Digital Library. PLoS ONE, 2017, 12, e0184188.	1.1	3
39	Mapping longitudinal scientific progress, collaboration and impact of the Alzheimerâ€™s disease neuroimaging initiative. PLoS ONE, 2017, 12, e0186095.	1.1	10
40	Plug-and-Play Macroscopes: Network Workbench (NWB), Science of Science Tool (Sci2), and Epidemiology Tool (EpiC). , 2017, , 1-11.		0
41	Analysis of Network Clustering Algorithms and Cluster Quality Metrics at Scale. PLoS ONE, 2016, 11, e0159161.	1.1	143
42	Comparing the Consumption of CPU Hours with Scientific Output for the Extreme Science and Engineering Discovery Environment (XSEDE). PLoS ONE, 2016, 11, e0157628.	1.1	3
43	Investigating aspects of data visualization literacy using 20 information visualizations and 273 science museum visitors. Information Visualization, 2016, 15, 198-213.	1.2	96
44	Mapping science introduction: Past, present and future. Bulletin of the Association for Information Science & Technology, 2015, 41, 12-16.	0.3	18
45	Mapâ€based Visualizations Increase Recall Accuracy of Data. Computer Graphics Forum, 2015, 34, 441-450.	1.8	47
46	Long-Distance Interdisciplinarity Leads to Higher Scientific Impact. PLoS ONE, 2015, 10, e0122565.	1.1	107
47	Self-portraits of the brain: cognitive science, data visualization, and communicating brain structure and function. Trends in Cognitive Sciences, 2015, 19, 462-474.	4.0	19
48	Node, Node-Link, and Node-Link-Group Diagrams: An Evaluation. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2231-2240.	2.9	37
49	Open data and open code for big science of science studies. Scientometrics, 2014, 101, 1535-1551.	1.6	42
50	â€˜SeedÂ+Âexpandâ€™: a general methodology for detecting publication oeuvres of individual researchers. Scientometrics, 2014, 101, 1403-1417.	1.6	19
51	Plug-and-Play Macroscopes: Network Workbench (NWB), Science of Science Tool (Sci2), and Epidemiology Tool (EpiC). , 2014, , 1280-1290.		1
52	Replicable Science of Science Studies. , 2014, , 321-341.		2
53	Evolving collaboration networks in Scientometrics in 1978â€“2010: a microâ€“macro analysis. Scientometrics, 2013, 95, 1051-1070.	1.6	22
54	Global Multi-Level Analysis of the â€˜Scientific Food Web'. Scientific Reports, 2013, 3, 1167.	1.6	48

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55	Visualizing the Topical Structure of the Medical Sciences: A Self-Organizing Map Approach. PLoS ONE, 2013, 8, e58779.	1.1	49
56	An Introduction to Modeling Science: Basic Model Types, Key Definitions, and a General Framework for the Comparison of Process Models. Understanding Complex Systems, 2012, , 3-22.	0.3	17
57	Science Policy and the Challenges for Modeling Science. Understanding Complex Systems, 2012, , 261-266.	0.3	1
58	Mapping interactions within the evolving science of science and innovation policy community. Scientometrics, 2012, 91, 631-644.	1.6	4
59	Design and Update of a Classification System: The UCSD Map of Science. PLoS ONE, 2012, 7, e39464.	1.1	154
60	Clustering More than Two Million Biomedical Publications: Comparing the Accuracies of Nine Text-Based Similarity Approaches. PLoS ONE, 2011, 6, e18029.	1.1	207
61	Mixed-indicators model for identifying emerging research areas. Scientometrics, 2011, 89, 421-435.	1.6	95
62	Approaches to understanding and measuring interdisciplinary scientific research (IDR): A review of the literature. Journal of Informetrics, 2011, 5, 14-26.	1.4	524
63	Plug-and-play macroscopes. Communications of the ACM, 2011, 54, 60-69.	3.3	555
64	Rete-netzwerk-red: analyzing and visualizing scholarly networks using the Network Workbench Tool. Scientometrics, 2010, 83, 863-876.	1.6	53
65	A Multi-Level Systems Perspective for the Science of Team Science. Science Translational Medicine, 2010, 2, 49cm24.	5.8	239
66	Mapping the structure and evolution of chemistry research. Scientometrics, 2009, 79, 45-60.	1.6	100
67	The Scholarly Database and its utility for scientometrics research. Scientometrics, 2009, 79, 219-234.	1.6	21
68	Movies and Actors: Mapping the Internet Movie Database. Proceedings / International Conference on Information Visualisation, 2007, , .	0.0	13
69	Computational Diagnostics: A Novel Approach to Viewing Medical Data. , 2007, , .		1
70	Representing, Analyzing, and Visualizing Scholarly Data in Support of Research Management. Proceedings / International Conference on Information Visualisation, 2007, , .	0.0	1
71	Network science. Annual Review of Information Science & Technology, 2007, 41, 537-607.	2.6	226
72	Analyzing and visualizing the semantic coverage of Wikipedia and its authors. Complexity, 2007, 12, 30-40.	0.9	106

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73	Taxonomy visualization in support of the semi-automatic validation and optimization of organizational schemas. Journal of Informetrics, 2007, 1, 214-225.	1.4	7
74	Mapping the diffusion of scholarly knowledge among major U.S. research institutions. Scientometrics, 2006, 68, 415-426.	1.6	64
75	Semantic Association Networks: Using Semantic Web Technology to Improve Scholarly Knowledge and Expertise Management. , 2006, , 183-198.		14
76	Trends in animal behaviour research (1968â€“2002): ethoinformatics and the mining of library databases. Animal Behaviour, 2005, 69, 1399-1413.	0.8	28
77	Studying the emerging global brain: Analyzing and visualizing the impact of co-authorship teams. Complexity, 2005, 10, 57-67.	0.9	148
78	Visualizing knowledge domains. Annual Review of Information Science & Technology, 2005, 37, 179-255.	2.6	1,024
79	Visualizing knowledge domains. Sponsored by SIG CR, SIG VIS. Proceedings of the American Society for Information Science and Technology, 2005, 39, 476-477.	0.2	0
80	JoDL special issue on information visualization interfaces for retrieval and analysis â€“ Guest editorâ€™s introduction. International Journal on Digital Libraries, 2005, 5, 1-2.	1.1	6
81	Mapping the backbone of science. Scientometrics, 2005, 64, 351-374.	1.6	693
82	From Spatial Proximity to Semantic Coherence: A Quantitative Approach to the Study of Group Dynamics in Collaborative Virtual Environments. Presence: Teleoperators and Virtual Environments, 2005, 14, 81-103.	0.3	8
83	Data Visualization of Multiparameter Information in Acute Lymphoblastic Leukemia Expands the Ability To Explore Prognostic Factors.. Blood, 2005, 106, 862-862.	0.6	0
84	Mapping topics and topic bursts in PNAS. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5287-5290.	3.3	177
85	Mapping knowledge domains. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5183-5185.	3.3	260
86	The simultaneous evolution of author and paper networks. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5266-5273.	3.3	221
87	Indicator-assisted evaluation and funding of research: Visualizing the influence of grants on the number and citation counts of research papers. Journal of the Association for Information Science and Technology, 2003, 54, 447-461.	2.6	99
88	Efficient Case-Based Structure Generation for Design Support. Artificial Intelligence Review, 2001, 16, 87-118.	9.7	5