Bill Howe

List of Publications by Year
in descending order

79 papers	3,601 citations	394421 19 h-index	361022 35 g-index
81 all docs	81 docs citations	81 times ranked	2929 citing authors

#	Article	IF	Citations
1	Integrative urban AI to expand coverage, access, and equity of urban data. European Physical Journal: Special Topics, 2022, 231, 1741-1752.	2.6	4
2	Technical Perspective. SIGMOD Record, 2022, 51, 59-59.	1.2	0
3	Technical perspective: Visualization search. Communications of the ACM, 2022, 65, 84-84.	4.5	0
4	Technical Perspective. SIGMOD Record, 2021, 50, 50-50.	1.2	0
5	EquiTensors. , 2021, , .		12
6	Fairness-Aware Demand Prediction for New Mobility. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 1079-1087.	4.9	15
7	Database Repair Meets Algorithmic Fairness. SIGMOD Record, 2020, 49, 34-41.	1.2	17
8	Advice from SIGMOD/PODS 2020. SIGMOD Record, 2020, 49, 43-54.	1.2	1
9	Beyond Open vs. Closed. , 2019, , .		24
10	Freedom from the station: Spatial equity in access to dockless bike share. Journal of Transport Geography, 2019, 74, 91-96.	5.0	127
11	Scalable and Efficient Flow-Based Community Detection for Large-Scale Graph Analysis. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-30.	3.5	20
12	Voyager 2. , 2017, , .		177
13	LaraDB. , 2017, , .		33
14	Fides. , 2017, , .		21
15	DataSynthesizer. , 2017, , .		71
16	Wide-Open: Accelerating public data release by automating detection of overdue datasets. PLoS Biology, 2017, 15, e2002477.	5.6	12
17	High variety cloud databases. , 2016, , .		3
18	From NoSQL Accumulo to NewSQL Graphulo: Design and utility of graph algorithms inside a BigTable database. , 2016, , .		11

#	Article	IF	Citations
19	Deciphering ocean carbon in a changing world. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3143-3151.	7.1	253
20	SQLShare. , 2016, , .		42
21	Towards a general-purpose query language for visualization recommendation. , 2016, , .		63
22	VizioMetrix. , 2016, , .		8
23	Scalable clustering algorithms for continuous environmental flow cytometry. Bioinformatics, 2016, 32, 417-423.	4.1	15
24	Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 649-658.	4.4	287
25	Screening and Follow-Up Monitoring for Substance Use in Primary Care: An Exploration of Ruralâ€“Urban Variations. Journal of General Internal Medicine, 2016, 31, 215-222.	2.6	29
26	Perfopticon: Visual Query Analysis for Distributed Databases. Computer Graphics Forum, 2015, 34, 71-80.	3.0	13
27	Towards automated prediction of relationships among scientific datasets. , 2015, , .		2
28	GossipMap. , 2015, , .		19
29	Gaussian Mixture Models Use-Case. , 2015, , .		7
30	The BigDAWG Polystore System. SIGMOD Record, 2015, 44, 11-16.	1.2	186
31	Query-Based Data Pricing. Journal of the ACM, 2015, 62, 1-44.	2.2	69
32	Detecting and Dismantling Composite Visualizations in the Scientific Literature. Lecture Notes in Computer Science, 2015, , 247-266.	1.3	5
33	Dismantling Composite Visualizations in the Scientific Literature. , 2015, , .		8
34	Compiled Plans for In-Memory Path-Counting Queries. Lecture Notes in Computer Science, 2015, , 28-43.	1.3	0
35	The database group at the University of Washington. SIGMOD Record, 2014, 43, 39-44.	1.2	0
36	Should we all be teaching "intro to data science" instead of "intro to databases"?. , 2014, , .		5

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37	Demonstration of the Myria big data management service. , 2014, , .		56
38	Helping scientists reconnect their datasets. , 2014, , .		9
39	Scalable Flow-Based Community Detection for Large-Scale Network Analysis. , 2013, , .		19
40	The power of data use management in action. , 2013, , .		2
41	Toward practical query pricing with QueryMarket. , 2013, , .		57
42	Massive scale cyber traffic analysis. , 2013, , .		13
43	Hadoop's adolescence. Proceedings of the VLDB Endowment, 2013, 6, 853-864.	3.8	77
44	Collaborative Science Workflows in SQL. Computing in Science and Engineering, 2013, 15, 22-31.	1.2	8
45	Real-time collaborative analysis with (almost) pure SQL. , 2013, , .		4
46	A Discussion on Pricing Relational Data. Lecture Notes in Computer Science, 2013, , 167-173.	1.3	14
47	Education and career paths for data scientists. , 2013, , .		0
48	SkewTune in action. Proceedings of the VLDB Endowment, 2012, 5, 1934-1937.	3.8	23
49	VizDeck. , 2012, , .		2
50	QueryMarket demonstration. Proceedings of the VLDB Endowment, 2012, 5, 1962-1965.	3.8	33
51	VizDeck. , 2012, , .		97
52	Query-based data pricing. , 2012, , .		64
53	Virtual Appliances, Cloud Computing, and Reproducible Research. Computing in Science and Engineering, 2012, 14, 36-41.	1.2	62
54	Poster: Hadoop's Adolescence; A Comparative Workloads Analysis from Three Research Clusters. , 2012, , .		5

#	Article	IF	Citations
55	SkewTune. , 2012, , .		304
56	Designing good algorithms for MapReduce and beyond. , 2012, , .		5
57	The HaLoop approach to large-scale iterative data analysis. VLDB Journal, 2012, 21, 169-190.	4.1	120
58	Optimizing Large-Scale Semi-NaÃ¯ve Datalog Evaluation in Hadoop. Lecture Notes in Computer Science, 2012, , 165-176.	1.3	27
59	Parallel visualization on large clusters using MapReduce. , 2011, , .		25
60	Bioinformatics and Data-Intensive Scientific Discovery in the Beginning of the 21st Century. OMICS A Journal of Integrative Biology, 2011, 15, 199-201.	2.0	15
61	Automatic example queries for ad hoc databases. , 2011, , .		8
62	Database-as-a-Service for Long-Tail Science. Lecture Notes in Computer Science, 2011, , 480-489.	1.3	30
63	Data markets in the cloud. Proceedings of the VLDB Endowment, 2011, 4, 1482-1485.	3.8	102
64	HaLoop. Proceedings of the VLDB Endowment, 2010, 3, 285-296.	3.8	550
65	Skew-resistant parallel processing of feature-extracting scientific user-defined functions. , 2010, , .		106
66	COVE: A Visual Environment for Multidisciplinary Ocean Science Collaboration. , 2010, , .		4
67	Client + Cloud: Evaluating Seamless Architectures for Visual Data Analytics in the Ocean Sciences. Lecture Notes in Computer Science, 2010, , 114-131.	1.3	7
68	Scalable Clustering Algorithm for N-Body Simulations in a Shared-Nothing Cluster. Lecture Notes in Computer Science, 2010, , 132-150.	1.3	40
69	Analyzing massive astrophysical datasets: Can Pig/Hadoop or a relational DBMS help?. , 2009, , .		42
70	Scientific Mashups: Runtime-Configurable Data Product Ensembles. Lecture Notes in Computer Science, 2009, , 19-36.	1.3	2
71	Scientific Exploration in the Era of Ocean Observatories. Computing in Science and Engineering, 2008, 10, 53-58.	1.2	30
72	Scientific Mashups: Runtime-Configurable Data Product Ensembles. , 2008, , .		0

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73	End-to-End eScience: Integrating Workflow, Query, Visualization, and Provenance at an Ocean Observatory. , 2008, , .		16
74	Quarrying dataspaces: Schemaless profiling of unfamiliar information sources. , 2008, , .		17
75	The Ocean Appliance: Complete Platform Provisioning for Low-Cost Data Sharing. , 2007, , .		1
76	Algebraic manipulation of scientific datasets. VLDB Journal, 2005, 14, 397-416.	4.1	24
77	Emergent Semantics: Towards Self-Organizing Scientific Metadata. Lecture Notes in Computer Science, 2004, , 177-198.	1.3	9
78	Algebraic Manipulation of Scientific Datasets. , 2004, , 924-935.		4
79	Beyond MapReduce: New Requirements for Scalable Data Processing. , 0, , 180-234.		1