Paul T Groth

List of Publications by Year
in descending order

104 papers	12,395 citations	185998 28 h-index	64668 79 g-index
115 all docs	115 docs citations	115 times ranked	22484 citing authors

#	Article	IF	Citations
1	The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data, 2016, 3, 160018.	2.4	8,670
2	The Open Provenance Model core specification (v1.1). Future Generation Computer Systems, 2011, 27, 743-756.	4.9	514
3	Open PHACTS: semantic interoperability for drug discovery. Drug Discovery Today, 2012, 17, 1188-1198.	3.2	274
4	The anatomy of a nanopublication. Information Services and Use, 2010, 30, 51-56.	0.1	187
5	The Altmetrics Collection. PLoS ONE, 2012, 7, e48753.	1.1	184
6	The provenance of electronic data. Communications of the ACM, 2008, 51, 52-58.	3.3	150
7	Ten Simple Rules for the Care and Feeding of Scientific Data. PLoS Computational Biology, 2014, 10, e1003542.	1.5	147
8	Wings: Intelligent Workflow-Based Design of Computational Experiments. IEEE Intelligent Systems, 2011, 26, 62-72.	4.0	143
9	The value of data. Nature Genetics, 2011, 43, 281-283.	9.4	126
10	The Requirements of Using Provenance in e-Science Experiments. Journal of Grid Computing, 2007, 5, 1-25.	2.5	103
11	Dataset search: a survey. VLDB Journal, 2020, 29, 251-272.	2.7	98
12	Assessing Linked Data Mappings Using Network Measures. Lecture Notes in Computer Science, 2012, , 87-102.	1.0	78
13	Provenance: An Introduction to PROV. Synthesis Lectures on the Semantic Web: Theory and Technology, 2013, 3, 1-129.	5.0	75
14	The rationale of PROV. Web Semantics, 2015, 35, 235-257.	2.2	75
15	Requirements for Provenance on the Web. International Journal of Digital Curation, 2012, 7, 39-56.	0.1	61
16	A Protocol for Recording Provenance in Service-Oriented Grids. Lecture Notes in Computer Science, 2005, , 124-139.	1.0	53
17	NoSQL Databases for RDF: An Empirical Evaluation. Lecture Notes in Computer Science, 2013, , 310-325.	1.0	53
18	Strong Mobility and Fine-Grained Resource Control in NOMADS. Lecture Notes in Computer Science, 2000, , 2-15.	1.0	52

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19	Packaging research artefacts with RO-Crate. Data Science, 2022, 5, 97-138.	0.7	52
20	PrIMe. ACM Transactions on Software Engineering and Methodology, 2011, 20, 1-42.	4.8	44
21	API-centric Linked Data integration: The Open PHACTS Discovery Platform case study. Web Semantics, 2014, 29, 12-18.	2.2	44
22	Provenance-based validation of e-science experiments. Web Semantics, 2007, 5, 28-38.	2.2	41
23	Applying linked data approaches to pharmacology: Architectural decisions and implementation. Semantic Web, 2014, 5, 101-113.	1.1	41
24	Security Issues in a SOA-Based Provenance System. Lecture Notes in Computer Science, 2006, , 203-211.	1.0	39
25	Recording Process Documentation for Provenance. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1246-1259.	4.0	36
26	Searching Data: A Review of Observational Data Retrieval Practices in Selected Disciplines. Journal of the Association for Information Science and Technology, 2019, 70, 419-432.	1.5	36
27	Understanding data search as a socio-technical practice. Journal of Information Science, 2020, 46, 459-475.	2.0	33
28	FAIR Data Reuse â€“ the Path through Data Citation. Data Intelligence, 2020, 2, 78-86.	0.8	33
29	Provenance: The Bridge Between Experiments and Data. Computing in Science and Engineering, 2008, 10, 38-46.	1.2	30
30	Pipeline-centric provenance model. , 2009, , .		30
31	A model of process documentation to determine provenance in mash-ups. ACM Transactions on Internet Technology, 2009, 9, 1-31.	3.0	30
32	A longitudinal analysis of university rankings. Quantitative Science Studies, 2020, 1, 1109-1135.	1.6	29
33	TripleProv. , 2014, , .		27
34	Provenance-Based Validation of E-Science Experiments. Lecture Notes in Computer Science, 2005, , 801-815.	1.0	27
35	Talking datasets â€“ Understanding data sensemaking behaviours. International Journal of Human Computer Studies, 2021, 146, 102562.	3.7	26
36	Extracting causal graphs from an open provenance data model. Concurrency Computation Practice and Experience, 2008, 20, 577-586.	1.4	25

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37	Storing, Tracking, and Querying Provenance in Linked Data. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1751-1764.	4.0	25
38	PROV-O-Viz - Understanding the Role of Activities in Provenance. Lecture Notes in Computer Science, 2015, , 215-220.	1.0	25
39	Drug discovery FAQs: workflows for answering multidomain drug discovery questions. Drug Discovery Today, 2015, 20, 399-405.	3.2	24
40	A Provenance-Aware Weighted Fault Tolerance Scheme for Service-Based Applications. , 0, , .		23
41	Connecting Scientific Data to Scientific Experiments with Provenance. , 2007, , .		23
42	Expressive Reusable Workflow Templates. , 2009, , .		22
43	Looking Inside the Black-Box: Capturing Data Provenance Using Dynamic Instrumentation. Lecture Notes in Computer Science, 2015, , 155-167.	1.0	21
44	Representing distributed systems using the Open Provenance Model. Future Generation Computer Systems, 2011, 27, 757-765.	4.9	20
45	Special Section: The third provenance challenge on using the open provenance model for interoperability. Future Generation Computer Systems, 2011, 27, 737-742.	4.9	19
46	The health care and life sciences community profile for dataset descriptions. PeerJ, 2016, 4, e2331.	0.9	18
47	Finding the Achilles Heel of the Web of Data: Using Network Analysis for Link-Recommendation. Lecture Notes in Computer Science, 2010, , 289-304.	1.0	17
48	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. Lecture Notes in Computer Science, 2014, , 98-113.	1.0	16
49	Transparency and Reliability in the Data Supply Chain. IEEE Internet Computing, 2013, 17, 69-71.	3.2	15
50	Executing Provenance-Enabled Queries over Web Data. , 2015, , .		15
51	Defining a Knowledge Graph Development Process Through a Systematic Review. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-40.	4.8	14
52	The Semantic Web â€“ ISWC 2013. Lecture Notes in Computer Science, 2013, , .	1.0	13
53	Indicators for the use of robotic labs in basic biomedical research: a literature analysis. PeerJ, 2017, 5, e3997.	0.9	13
54	Linkitup: Semantic Publishing of Research Data. Communications in Computer and Information Science, 2014, , 95-100.	0.4	13

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55	Structure-based knowledge acquisition from electronic lab notebooks for research data provenance documentation. Journal of Biomedical Semantics, 2022, 13, 4.	0.9	13
56	Theoretical and technological building blocks for an innovation accelerator. European Physical Journal: Special Topics, 2012, 214, 183-214.	1.2	12
57	Querying neXtProt nanopublications and their value for insights on sequence variants and tissue expression. Web Semantics, 2014, 29, 3-11.	2.2	12
58	Dataset Reuse: Toward Translating Principles to Practice. Patterns, 2020, 1, 100136.	3.1	12
59	A Semantic Pattern-Based Recommender. Communications in Computer and Information Science, 2014, , 182-187.	0.4	10
60	Measuring the Dynamic Bi-directional Influence between Content and Social Networks. Lecture Notes in Computer Science, 2010, , 814-829.	1.0	10
61	Toward DAML-based policy enforcement for semantic data transformation and filtering in multi-agent systems. , 2003, , .		9
62	Wolves, bees, and football: Enhancing coordination in sociotechnological problem solving systems through the study of human and animal groups. Computers in Human Behavior, 2007, 23, 2778-2790.	5.1	8
63	The application of cloud computing to the creation of image mosaics and management of their provenance. , 2010, , .		8
64	TripleCloud: An Infrastructure for Exploratory Querying over Web-Scale RDF Data. , 2011, , .		8
65	On the formulation of performant SPARQL queries. Web Semantics, 2015, 31, 1-26.	2.2	8
66	Determining the Trustworthiness of New Electronic Contracts. Lecture Notes in Computer Science, 2009, , 132-147.	1.0	8
67	Data distribution debugging in machine learning pipelines. VLDB Journal, 2022, 31, 1103-1126.	2.7	8
68	FT-Grid: a system for achieving fault tolerance in grids. Concurrency Computation Practice and Experience, 2008, 20, 297-309.	1.4	7
69	Capturing Common Knowledge about Tasks. ACM Transactions on Interactive Intelligent Systems, 2012, 2, 1-35.	2.6	7
70	Perspectives on automated composition of workflows in the life sciences. F1000Research, 2021, 10, 897.	0.8	7
71	Trade-Offs in Automatic Provenance Capture. Lecture Notes in Computer Science, 2016, , 29-41.	1.0	7
72	Metadata and Provenance Management. Chapman & Hall/CRC Computational Science, 2009, , .	0.5	7

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73	A scientific workflow construction command line. , 2009, , .		6
74	Analyzing the Gap between Workflows and their Natural Language Descriptions. , 2009, , .		6
75	MULTI-SCALE ANALYSIS OF THE WEB OF DATA: A CHALLENGE TO THE COMPLEX SYSTEM'S COMMUNITY. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 587-609.	0.9	6
76	Combining User Reputation and Provenance Analysis for Trust Assessment. Journal of Data and Information Quality, 2016, 7, 1-28.	1.5	6
77	Agent coordination and communication in sociotechnological systems: Design and measurement issues. Interacting With Computers, 2006, 18, 1170-1185.	1.0	5
78	A Distributed Algorithm for Determining the Provenance of Data. , 2008, , .		5
79	A demonstration of TripleProv. Proceedings of the VLDB Endowment, 2015, 8, 1992-1995.	2.1	5
80	PROV 2R. ACM Transactions on Internet Technology, 2017, 17, 1-24.	3.0	4
81	ProvenanceJS: Revealing the Provenance of Web Pages. Lecture Notes in Computer Science, 2010, , 283-285.	1.0	4
82	The Knowledge-Remixing Bottleneck. IEEE Intelligent Systems, 2013, 28, 44-48.	4.0	3
83	A web observatory for the machine processability of structured data on the web. , 2014, , .		3
84	AgentPrIMe: Adapting MAS Designs to Build Confidence. , 2007, , 31-43.		3
85	Applying Universal Schemas for Domain Specific Ontology Expansion. , 2016, , .		3
86	Generating Scientific Documentation for Computational Experiments Using Provenance. Lecture Notes in Computer Science, 2015, , 168-179.	1.0	3
87	Wolves, football, and ambient computing. , 2004, , .		2
88	A comparison between online and offline prayer. , 2013, , .		2
89	foxPSL: A Fast, Optimized and eXtended PSL implementation. International Journal of Approximate Reasoning, 2015, 67, 111-121.	1.9	2
90	Increasing the Productivity of Scholarship. , 2015, , .		2

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91	Introduction â€“ FAIR data, systems andÂanalysis. Data Science, 2020, 3, 1-2.	0.7	2
92	Querying NeXtProt Nanopublications and Their Value for Insights on Sequence Variants and Tissue Expression. SSRN Electronic Journal, 0, , .	0.4	2
93	The non-linear impact of data handling on network diffusion models. Patterns, 2021, 2, 100397.	3.1	2
94	Making Canonical Workflow Building Blocks Interoperable across Workflow Languages. Data Intelligence, 2022, 4, 342-357.	0.8	2
95	LinkedDataLens. , 2011, , .		1
96	Spinning data. , 2013, , .		1
97	Identifying research talent using web-centric databases. , 2013, , .		1
98	Linked Data Management. , 2017, , 307-338.		1
99	Facilitating Trust on Data through Provenance. Lecture Notes in Computer Science, 2014, , 220-221.	1.0	1
100	Provenance-Based Validation of E-Science Experiments. SSRN Electronic Journal, 0, , .	0.4	1
101	The Rationale of PROV. SSRN Electronic Journal, 0, , .	0.4	1
102	PANDAcap. , 2020, , .		1
103	Adaptive RDF Query Processing Based on Provenance. Lecture Notes in Computer Science, 2015, , 264-266.	1.0	0
104	Sources of Change for Modern Knowledge Organization Systems. Knowledge Organization, 2016, 43, 622-629.	0.1	0