

Paul T Groth

List of Publications by Year in descending order

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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	Defining a Knowledge Graph Development Process Through a Systematic Review. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-40.	4.8	14
2	Packaging research artefacts with RO-Crate. Data Science, 2022, 5, 97-138.	0.7	52
3	Structure-based knowledge acquisition from electronic lab notebooks for research data provenance documentation. Journal of Biomedical Semantics, 2022, 13, 4.	0.9	13
4	Data distribution debugging in machine learning pipelines. VLDB Journal, 2022, 31, 1103-1126.	2.7	8
5	Making Canonical Workflow Building Blocks Interoperable across Workflow Languages. Data Intelligence, 2022, 4, 342-357.	0.8	2
6	Talking datasets – Understanding data sensemaking behaviours. International Journal of Human Computer Studies, 2021, 146, 102562.	3.7	26
7	Perspectives on automated composition of workflows in the life sciences. F1000Research, 2021, 10, 897.	0.8	7
8	The non-linear impact of data handling on network diffusion models. Patterns, 2021, 2, 100397.	3.1	2
9	Understanding data search as a socio-technical practice. Journal of Information Science, 2020, 46, 459-475.	2.0	33
10	Dataset search: a survey. VLDB Journal, 2020, 29, 251-272.	2.7	98
11	FAIR Data Reuse – the Path through Data Citation. Data Intelligence, 2020, 2, 78-86.	0.8	33
12	Dataset Reuse: Toward Translating Principles to Practice. Patterns, 2020, 1, 100136.	3.1	12
13	Introduction – FAIR data, systems and Analysis. Data Science, 2020, 3, 1-2.	0.7	2
14	A longitudinal analysis of university rankings. Quantitative Science Studies, 2020, 1, 1109-1135.	1.6	29
15	PANDAcap. , 2020, , .		1
16	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
17	Linked Data Management. , 2017, , 307-338.		1
18	Storing, Tracking, and Querying Provenance in Linked Data. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1751-1764.	4.0	25

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19	PROV 2R. ACM Transactions on Internet Technology, 2017, 17, 1-24.	3.0	4
20	Indicators for the use of robotic labs in basic biomedical research: a literature analysis. PeerJ, 2017, 5, e3997.	0.9	13
21	The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data, 2016, 3, 160018.	2.4	8,670
22	Combining User Reputation and Provenance Analysis for Trust Assessment. Journal of Data and Information Quality, 2016, 7, 1-28.	1.5	6
23	Trade-Offs in Automatic Provenance Capture. Lecture Notes in Computer Science, 2016, , 29-41.	1.0	7
24	Applying Universal Schemas for Domain Specific Ontology Expansion. , 2016, , .		3
25	The health care and life sciences community profile for dataset descriptions. PeerJ, 2016, 4, e2331.	0.9	18
26	Sources of Change for Modern Knowledge Organization Systems. Knowledge Organization, 2016, 43, 622-629.	0.1	0
27	Executing Provenance-Enabled Queries over Web Data. , 2015, , .		15
28	A demonstration of TripleProv. Proceedings of the VLDB Endowment, 2015, 8, 1992-1995.	2.1	5
29	foxPSL: A Fast, Optimized and eXtended PSL implementation. International Journal of Approximate Reasoning, 2015, 67, 111-121.	1.9	2
30	The rationale of PROV. Web Semantics, 2015, 35, 235-257.	2.2	75
31	Drug discovery FAQs: workflows for answering multidomain drug discovery questions. Drug Discovery Today, 2015, 20, 399-405.	3.2	24
32	On the formulation of performant SPARQL queries. Web Semantics, 2015, 31, 1-26.	2.2	8
33	Increasing the Productivity of Scholarship. , 2015, , .		2
34	Looking Inside the Black-Box: Capturing Data Provenance Using Dynamic Instrumentation. Lecture Notes in Computer Science, 2015, , 155-167.	1.0	21
35	PROV-O-Viz - Understanding the Role of Activities in Provenance. Lecture Notes in Computer Science, 2015, , 215-220.	1.0	25
36	Adaptive RDF Query Processing Based on Provenance. Lecture Notes in Computer Science, 2015, , 264-266.	1.0	0

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37	Generating Scientific Documentation for Computational Experiments Using Provenance. Lecture Notes in Computer Science, 2015, , 168-179.	1.0	3
38	Ten Simple Rules for the Care and Feeding of Scientific Data. PLoS Computational Biology, 2014, 10, e1003542.	1.5	147
39	TripleProv. , 2014, , .		27
40	A web observatory for the machine processability of structured data on the web. , 2014, , .		3
41	Querying neXtProt nanopublications and their value for insights on sequence variants and tissue expression. Web Semantics, 2014, 29, 3-11.	2.2	12
42	API-centric Linked Data integration: The Open PHACTS Discovery Platform case study. Web Semantics, 2014, 29, 12-18.	2.2	44
43	Applying linked data approaches to pharmacology: Architectural decisions and implementation. Semantic Web, 2014, 5, 101-113.	1.1	41
44	Facilitating Trust on Data through Provenance. Lecture Notes in Computer Science, 2014, , 220-221.	1.0	1
45	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. Lecture Notes in Computer Science, 2014, , 98-113.	1.0	16
46	A Semantic Pattern-Based Recommender. Communications in Computer and Information Science, 2014, , 182-187.	0.4	10
47	Linkitup: Semantic Publishing of Research Data. Communications in Computer and Information Science, 2014, , 95-100.	0.4	13
48	Transparency and Reliability in the Data Supply Chain. IEEE Internet Computing, 2013, 17, 69-71.	3.2	15
49	A comparison between online and offline prayer. , 2013, , .		2
50	Spinning data. , 2013, , .		1
51	Identifying research talent using web-centric databases. , 2013, , .		1
52	Provenance: An Introduction to PROV. Synthesis Lectures on the Semantic Web: Theory and Technology, 2013, 3, 1-129.	5.0	75
53	NoSQL Databases for RDF: An Empirical Evaluation. Lecture Notes in Computer Science, 2013, , 310-325.	1.0	53
54	The Knowledge-Remixing Bottleneck. IEEE Intelligent Systems, 2013, 28, 44-48.	4.0	3

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55	The Semantic Web – ISWC 2013. Lecture Notes in Computer Science, 2013, , .	1.0	13
56	Capturing Common Knowledge about Tasks. ACM Transactions on Interactive Intelligent Systems, 2012, 2, 1-35.	2.6	7
57	Theoretical and technological building blocks for an innovation accelerator. European Physical Journal: Special Topics, 2012, 214, 183-214.	1.2	12
58	Open PHACTS: semantic interoperability for drug discovery. Drug Discovery Today, 2012, 17, 1188-1198.	3.2	274
59	The Altmetrics Collection. PLoS ONE, 2012, 7, e48753.	1.1	184
60	Assessing Linked Data Mappings Using Network Measures. Lecture Notes in Computer Science, 2012, , 87-102.	1.0	78
61	Requirements for Provenance on the Web. International Journal of Digital Curation, 2012, 7, 39-56.	0.1	61
62	TripleCloud: An Infrastructure for Exploratory Querying over Web-Scale RDF Data. , 2011, , .		8
63	Wings: Intelligent Workflow-Based Design of Computational Experiments. IEEE Intelligent Systems, 2011, 26, 62-72.	4.0	143
64	The value of data. Nature Genetics, 2011, 43, 281-283.	9.4	126
65	Representing distributed systems using the Open Provenance Model. Future Generation Computer Systems, 2011, 27, 757-765.	4.9	20
66	The Open Provenance Model core specification (v1.1). Future Generation Computer Systems, 2011, 27, 743-756.	4.9	514
67	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
68	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
69	LinkedDataLens. , 2011, , .		1
70	PrIME. ACM Transactions on Software Engineering and Methodology, 2011, 20, 1-42.	4.8	44
71	The application of cloud computing to the creation of image mosaics and management of their provenance. , 2010, , .		8
72	The anatomy of a nanopublication. Information Services and Use, 2010, 30, 51-56.	0.1	187

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73	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
74	Measuring the Dynamic Bi-directional Influence between Content and Social Networks. Lecture Notes in Computer Science, 2010, , 814-829.	1.0	10
75	ProvenanceJS: Revealing the Provenance of Web Pages. Lecture Notes in Computer Science, 2010, , 283-285.	1.0	4
76	Pipeline-centric provenance model. , 2009, , .		30
77	A model of process documentation to determine provenance in mash-ups. ACM Transactions on Internet Technology, 2009, 9, 1-31.	3.0	30
78	A scientific workflow construction command line. , 2009, , .		6
79	Analyzing the Gap between Workflows and their Natural Language Descriptions. , 2009, , .		6
80	Recording Process Documentation for Provenance. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1246-1259.	4.0	36
81	Expressive Reusable Workflow Templates. , 2009, , .		22
82	Determining the Trustworthiness of New Electronic Contracts. Lecture Notes in Computer Science, 2009, , 132-147.	1.0	8
83	Metadata and Provenance Management. Chapman & Hall/CRC Computational Science, 2009, , .	0.5	7
84	Extracting causal graphs from an open provenance data model. Concurrency Computation Practice and Experience, 2008, 20, 577-586.	1.4	25
85	FT-Grid: a system for achieving fault tolerance in grids. Concurrency Computation Practice and Experience, 2008, 20, 297-309.	1.4	7
86	Provenance: The Bridge Between Experiments and Data. Computing in Science and Engineering, 2008, 10, 38-46.	1.2	30
87	A Distributed Algorithm for Determining the Provenance of Data. , 2008, , .		5
88	The provenance of electronic data. Communications of the ACM, 2008, 51, 52-58.	3.3	150
89	Connecting Scientific Data to Scientific Experiments with Provenance. , 2007, , .		23
90	Provenance-based validation of e-science experiments. Web Semantics, 2007, 5, 28-38.	2.2	41

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91	Wolves, bees, and football: Enhancing coordination in sociotechnological problem solving systems through the study of human and animal groups. <i>Computers in Human Behavior</i> , 2007, 23, 2778-2790.	5.1	8
92	The Requirements of Using Provenance in e-Science Experiments. <i>Journal of Grid Computing</i> , 2007, 5, 1-25.	2.5	103
93	AgentPRIME: Adapting MAS Designs to Build Confidence. , 2007, , 31-43.		3
94	Agent coordination and communication in sociotechnological systems: Design and measurement issues. <i>Interacting With Computers</i> , 2006, 18, 1170-1185.	1.0	5
95	Security Issues in a SOA-Based Provenance System. <i>Lecture Notes in Computer Science</i> , 2006, , 203-211.	1.0	39
96	A Protocol for Recording Provenance in Service-Oriented Grids. <i>Lecture Notes in Computer Science</i> , 2005, , 124-139.	1.0	53
97	Provenance-Based Validation of E-Science Experiments. <i>Lecture Notes in Computer Science</i> , 2005, , 801-815.	1.0	27
98	Wolves, football, and ambient computing. , 2004, , .		2
99	Toward DAML-based policy enforcement for semantic data transformation and filtering in multi-agent systems. , 2003, , .		9
100	Strong Mobility and Fine-Grained Resource Control in NOMADS. <i>Lecture Notes in Computer Science</i> , 2000, , 2-15.	1.0	52
101	A Provenance-Aware Weighted Fault Tolerance Scheme for Service-Based Applications. , 0, , .		23
102	Querying NeXtProt Nanopublications and Their Value for Insights on Sequence Variants and Tissue Expression. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
103	Provenance-Based Validation of E-Science Experiments. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
104	The Rationale of PROV. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1