

Carole Anne Goble

List of Publications by Year in descending order

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185
papers

18,011
citations

61984
43
h-index

17592
121
g-index

203
all docs

203
docs citations

203
times ranked

26087
citing authors

| # | ARTICLE | IF | CITATIONS |
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| 1 | The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data, 2016, 3, 160018. | 5.3 | 8,670 |
| 2 | Taverna: a tool for building and running workflows of services. Nucleic Acids Research, 2006, 34, W729-W732. | 14.5 | 758 |
| 3 | The Taverna workflow suite: designing and executing workflows of Web Services on the desktop, web or in the cloud. Nucleic Acids Research, 2013, 41, W557-W561. | 14.5 | 567 |
| 4 | Taverna: lessons in creating a workflow environment for the life sciences. Concurrency Computation Practice and Experience, 2006, 18, 1067-1100. | 2.2 | 485 |
| 5 | The design and realisation of the Virtual Research Environment for social sharing of workflows. Future Generation Computer Systems, 2009, 25, 561-567. | 7.5 | 407 |
| 6 | Examining the Challenges of Scientific Workflows. Computer, 2007, 40, 24-32. | 1.1 | 406 |
| 7 | Toward interoperable bioscience data. Nature Genetics, 2012, 44, 121-126. | 21.4 | 362 |
| 8 | Open PHACTS: semantic interoperability for drug discovery. Drug Discovery Today, 2012, 17, 1188-1198. | 6.4 | 274 |
| 9 | State of the nation in data integration for bioinformatics. Journal of Biomedical Informatics, 2008, 41, 687-693. | 4.3 | 244 |
| 10 | Why linked data is not enough for scientists. Future Generation Computer Systems, 2013, 29, 599-611. | 7.5 | 230 |
| 11 | FAIR Principles: Interpretations and Implementation Considerations. Data Intelligence, 2020, 2, 10-29. | 1.5 | 149 |
| 12 | Towards FAIR principles for research software. Data Science, 2020, 3, 37-59. | 0.9 | 144 |
| 13 | A SUITE OF DAML+OIL ONTOLOGIES TO DESCRIBE BIOINFORMATICS WEB SERVICES AND DATA. International Journal of Cooperative Information Systems, 2003, 12, 197-224. | 0.8 | 126 |
| 14 | A classification of tasks in bioinformatics. Bioinformatics, 2001, 17, 180-188. | 4.1 | 123 |
| 15 | Research Objects: Towards Exchange and Reuse of Digital Knowledge. Nature Precedings, 2010, , . | 0.1 | 105 |
| 16 | FAIRDOMHub: a repository and collaboration environment for sharing systems biology research. Nucleic Acids Research, 2017, 45, D404-D407. | 14.5 | 98 |
| 17 | FAIR Computational Workflows. Data Intelligence, 2020, 2, 108-121. | 1.5 | 97 |
| 18 | Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data. PLoS Biology, 2017, 15, e2001414. | 5.6 | 97 |

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| 19 | Conceptual linking. , 2001, , . | | 94 |
| 20 | Using a suite of ontologies for preserving workflow-centric research objects. Web Semantics, 2015, 32, 16-42. | 2.9 | 94 |
| 21 | Taverna, Reloaded. Lecture Notes in Computer Science, 2010, , 471-481. | 1.3 | 93 |
| 22 | Four simple recommendations to encourage best practices in research software. F1000Research, 2017, 6, 876. | 1.6 | 88 |
| 23 | Mining Taverna's semantic web of provenance. Concurrency Computation Practice and Experience, 2008, 20, 463-472. | 2.2 | 85 |
| 24 | Using Semantic Web Technologies for Representing E-science Provenance. Lecture Notes in Computer Science, 2004, , 92-106. | 1.3 | 83 |
| 25 | myExperiment. , 2007, , . | | 78 |
| 26 | SEEK: a systems biology data and model management platform. BMC Systems Biology, 2015, 9, 33. | 3.0 | 75 |
| 27 | Learning domain ontologies for Web service descriptions. , 2005, , . | | 72 |
| 28 | Learning domain ontologies for semantic Web service descriptions. Web Semantics, 2005, 3, 340-365. | 2.9 | 71 |
| 29 | An overview of S-OGSA: A Reference Semantic Grid Architecture. Web Semantics, 2006, 4, 102-115. | 2.9 | 69 |
| 30 | RightField: embedding ontology annotation in spreadsheets. Bioinformatics, 2011, 27, 2021-2022. | 4.1 | 69 |
| 31 | Towards a Knowledge-Based Approach to Semantic Service Composition. Lecture Notes in Computer Science, 2003, , 319-334. | 1.3 | 67 |
| 32 | Feta: A Light-Weight Architecture for User Oriented Semantic Service Discovery. Lecture Notes in Computer Science, 2005, , 17-31. | 1.3 | 64 |
| 33 | PAV ontology: provenance, authoring and versioning. Journal of Biomedical Semantics, 2013, 4, 37. | 1.6 | 64 |
| 34 | Taverna Workflows: Syntax and Semantics. , 2007, , . | | 63 |
| 35 | A short study on the success of the Gene Ontology. Web Semantics, 2004, 1, 235-240. | 2.9 | 61 |
| 36 | Software Design for Empowering Scientists. IEEE Software, 2009, 26, 88-95. | 1.8 | 61 |

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| 37 | Evaluating DANTE. ACM Transactions on Computer-Human Interaction, 2007, 14, 14. | 5.7 | 58 |
| 38 | Common motifs in scientific workflows: An empirical analysis. Future Generation Computer Systems, 2014, 36, 338-351. | 7.5 | 57 |
| 39 | Seven Bottlenecks to Workflow Reuse and Repurposing. Lecture Notes in Computer Science, 2005, , 323-337. | 1.3 | 57 |
| 40 | The travails of visually impaired web travellers. , 2000, , . | | 55 |
| 41 | Applying Semantic Web Services to Bioinformatics: Experiences Gained, Lessons Learnt. Lecture Notes in Computer Science, 2004, , 350-364. | 1.3 | 55 |
| 42 | The Software Sustainability Institute: Changing Research Software Attitudes and Practices. Computing in Science and Engineering, 2013, 15, 74-80. | 1.2 | 55 |
| 43 | Methods included. Communications of the ACM, 2022, 65, 54-63. | 4.5 | 55 |
| 44 | Data curation + process curation=data integration + science. Briefings in Bioinformatics, 2008, 9, 506-517. | 6.5 | 53 |
| 45 | COVID19 Disease Map, a computational knowledge repository of virus-host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387. | 7.2 | 53 |
| 46 | Accessibility. , 2005, , . | | 52 |
| 47 | Designing the myExperiment Virtual Research Environment for the Social Sharing of Workflows. , 2007, , . | | 52 |
| 48 | Packaging research artefacts with RO-Crate. Data Science, 2022, 5, 97-138. | 0.9 | 52 |
| 49 | Taverna/myGrid: Aligning a Workflow System with the Life Sciences Community. , 2007, , 300-319. | | 51 |
| 50 | The Grid. SIGMOD Record, 2002, 31, 65-70. | 1.2 | 49 |
| 51 | Guest editors' introduction to the special section on scientific workflows. SIGMOD Record, 2005, 34, 3-4. | 1.2 | 49 |
| 52 | Sharing interoperable workflow provenance: A review of best practices and their practical application in CWLProv. GigaScience, 2019, 8, . | 6.4 | 49 |
| 53 | A semi-automated workflow for biodiversity data retrieval, cleaning, and quality control. Biodiversity Data Journal, 2014, 2, e4221. | 0.8 | 49 |
| 54 | Why workflows break — Understanding and combating decay in Taverna workflows. , 2012, , . | | 48 |

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| 55 | Workflow discovery: the problem, a case study from e-Science and a graph-based solution. , 2006, , . | | 46 |
| 56 | myExperiment: Defining the Social Virtual Research Environment. , 2008, , . | | 46 |
| 57 | BioVeL: a virtual laboratory for data analysis and modelling in biodiversity science and ecology. BMC Ecology, 2016, 16, 49. | 3.0 | 45 |
| 58 | Building a bioinformatics ontology using OIL. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 135-141. | 3.2 | 44 |
| 59 | Heterogeneous composition of models of computation. Future Generation Computer Systems, 2009, 25, 552-560. | 7.5 | 44 |
| 60 | The SEEK. Methods in Enzymology, 2011, 500, 629-655. | 1.0 | 44 |
| 61 | Better Software, Better Research. IEEE Internet Computing, 2014, 18, 4-8. | 3.3 | 44 |
| 62 | API-centric Linked Data integration: The Open PHACTS Discovery Platform case study. Web Semantics, 2014, 29, 12-18. | 2.9 | 44 |
| 63 | Scientific Process Automation and Workflow Management. Chapman & Hall/CRC Computational Science, 2009, , . | 0.5 | 44 |
| 64 | Community-driven computational biology with Debian Linux. BMC Bioinformatics, 2010, 11, S5. | 2.6 | 42 |
| 65 | Applying linked data approaches to pharmacology: Architectural decisions and implementation. Semantic Web, 2014, 5, 101-113. | 1.9 | 41 |
| 66 | Semantically Linking and Browsing Provenance Logs for E-science. Lecture Notes in Computer Science, 2004, , 158-176. | 1.3 | 41 |
| 67 | Data Lineage Model for Taverna Workflows with Lightweight Annotation Requirements. Lecture Notes in Computer Science, 2008, , 17-30. | 1.3 | 40 |
| 68 | Janus: From Workflows to Semantic Provenance and Linked Open Data. Lecture Notes in Computer Science, 2010, , 129-141. | 1.3 | 39 |
| 69 | Why Linked Data is Not Enough for Scientists. , 2010, , . | | 37 |
| 70 | The evolution of standards and data management practices in systems biology. Molecular Systems Biology, 2015, 11, 851. | 7.2 | 35 |
| 71 | BioExcel Building Blocks, a software library for interoperable biomolecular simulation workflows. Scientific Data, 2019, 6, 169. | 5.3 | 35 |
| 72 | A foundation for tool based mobility support for visually impaired web users. , 2003, , . | | 34 |

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| 73 | I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets. , 2016, , . | | 33 |
| 74 | FAIR Data Reuse – the Path through Data Citation. Data Intelligence, 2020, 2, 78-86. | 1.5 | 33 |
| 75 | Report on the 18 th British National Conference on Databases (BNCOD). SIGMOD Record, 2002, 31, 109-112. | 1.2 | 32 |
| 76 | Using provenance to manage knowledge of In Silico experiments. Briefings in Bioinformatics, 2007, 8, 183-194. | 6.5 | 31 |
| 77 | myGrid and the drug discovery process. Drug Discovery Today Biosilico, 2004, 2, 140-148. | 0.7 | 30 |
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| 79 | The Human Physiome: how standards, software and innovative service infrastructures are providing the building blocks to make it achievable. Interface Focus, 2016, 6, 20150103. | 3.0 | 30 |
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| 81 | A formal semantics for the Taverna 2 workflow model. Journal of Computer and System Sciences, 2010, 76, 490-508. | 1.2 | 28 |
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| 83 | SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. Computational Intelligence, 2005, 21, 157-176. | 3.2 | 26 |
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| 89 | Composing Different Models of Computation in Kepler and Ptolemy II. Lecture Notes in Computer Science, 2007, , 182-190. | 1.3 | 23 |
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| 91 | Thesaurus construction through knowledge representation. Data and Knowledge Engineering, 2001, 37, 25-45. | 3.4 | 22 |
| 92 | OILing the way to machine understandable bioinformatics resources. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 129-134. | 3.2 | 21 |
| 93 | DANTE. , 2004, , . | | 21 |
| 94 | Meeting report from the fourth meeting of the Computational Modeling in Biology Network (COMBINE). Standards in Genomic Sciences, 2014, 9, 1285-1301. | 1.5 | 21 |
| 95 | XGAP: a uniform and extensible data model and software platform for genotype and phenotype experiments. Genome Biology, 2010, 11, R27. | 9.6 | 20 |
| 96 | ServiceMap: Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , . | | 20 |
| 97 | Recycling workflows and services through discovery and reuse. Concurrency Computation Practice and Experience, 2007, 19, 181-194. | 2.2 | 19 |
| 98 | Elements of a computational infrastructure for social simulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3797-3812. | 3.4 | 19 |
| 99 | Extending Semantic Provenance into the Web of Data. IEEE Internet Computing, 2011, 15, 40-48. | 3.3 | 18 |
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| 102 | ELIXIRâ–EXCELERATE: establishing Europe's data infrastructure for the life science research of the future. EMBO Journal, 2021, 40, e107409. | 7.8 | 18 |
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| 105 | Scientific Lenses to Support Multiple Views over Linked Chemistry Data. Lecture Notes in Computer Science, 2014, , 98-113. | 1.3 | 16 |
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| 107 | An Identity Crisis in the Life Sciences. Lecture Notes in Computer Science, 2006, , 254-269. | 1.3 | 14 |
| 108 | A Community Roadmap for Scientific Workflows Research and Development. , 2021, , . | | 14 |

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| 109 | The Data Playground: An Intuitive Workflow Specification Environment. , 2007, , . | | 13 |
| 110 | BioCatalogue: A Curated Web Service Registry For The Life Science Community. Nature Precedings, 2009, , . | 0.1 | 13 |
| 111 | A comparison of using Taverna and BPEL in building scientific workflows: the case of caGrid. Concurrency Computation Practice and Experience, 2010, 22, 1098-1117. | 2.2 | 13 |
| 112 | ReputationNet: A Reputation Engine to Enhance ServiceMap by Recommending Trusted Services. , 2012, , . | | 13 |
| 113 | Distilling structure in Taverna scientific workflows: a refactoring approach. BMC Bioinformatics, 2014, 15, S12. | 2.6 | 13 |
| 114 | Scientific Workflows as Services in caGrid: A Taverna and gRAVI Approach. , 2009, , . | | 12 |
| 115 | ReputationNet: Reputation-Based Service Recommendation for e-Science. IEEE Transactions on Services Computing, 2015, 8, 439-452. | 4.6 | 12 |
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| 117 | Knowledge Discovery for Biology with Taverna. , 2007, , 355-395. | | 12 |
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| 119 | Augmenting the mobility of profoundly blind Web travellers. New Review of Hypermedia and Multimedia, 2005, 11, 103-128. | 1.1 | 11 |
| 120 | The Evolution of myExperiment. , 2010, , . | | 11 |
| 121 | Fostering Scientific Workflow Preservation through Discovery of Substitute Services. , 2011, , . | | 11 |
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| 124 | The Semantic Web and Knowledge Grids. Drug Discovery Today: Technologies, 2005, 2, 225-233. | 4.0 | 10 |
| 125 | In situ migration of handcrafted ontologies to reason-able forms. Data and Knowledge Engineering, 2008, 66, 147-162. | 3.4 | 10 |
| 126 | Medical image processing workflow support on the EGEE grid with taverna. , 2009, , . | | 10 |

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| 127 | Scientific Social Objects: The Social Objects and Multidimensional Network of the myExperiment Website. , 2011, , . | | 10 |
| 128 | TourisT. , 1998, , . | | 9 |
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| 133 | Workflow Discovery. International Journal of Web Services Research, 2008, 5, 32-58. | 0.8 | 9 |
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| 135 | Benchmarking workflow discovery: a case study from bioinformatics. Concurrency Computation Practice and Experience, 2009, 21, 2052-2069. | 2.2 | 8 |
| 136 | The data playground: An intuitive workflow specification environment. Future Generation Computer Systems, 2009, 25, 453-459. | 7.5 | 8 |
| 137 | Developing a strategy for computational lab skills training through Software and Data Carpentry: Experiences from the ELIXIR Pilot action. F1000Research, 2017, 6, 1040. | 1.6 | 8 |
| 138 | Selection of data sets for FAIRification in drug discovery and development: Which, why, and how?. Drug Discovery Today, 2022, 27, 2080-2085. | 6.4 | 8 |
| 139 | Grid metadata management: Requirements and architecture. , 2007, , . | | 7 |
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| 141 | Data management challenges for artificial intelligence in plant and agricultural research. F1000Research, 0, 10, 324. | 1.6 | 7 |
| 142 | Perspectives on automated composition of workflows in the life sciences. F1000Research, 2021, 10, 897. | 1.6 | 7 |
| 143 | Semantic Web Based Content Enrichment and Knowledge Reuse in E-science. Lecture Notes in Computer Science, 2004, , 654-669. | 1.3 | 7 |
| 144 | Ten simple rules for making a software tool workflow-ready. PLoS Computational Biology, 2022, 18, e1009823. | 3.2 | 7 |

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| 147 | e-Science and the Semantic Web: A Symbiotic Relationship. Lecture Notes in Computer Science, 2006, , 1-12. | 1.3 | 6 |
| 148 | Semantic Data and Models Sharing in Systems Biology: The Just Enough Results Model and the SEEK Platform. Lecture Notes in Computer Science, 2013, , 212-227. | 1.3 | 6 |
| 149 | The Specimen Data Refinery: A Canonical Workflow Framework and FAIR Digital Object Approach to Speeding up Digital Mobilisation of Natural History Collections. Data Intelligence, 2022, 4, 320-341. | 1.5 | 6 |
| 150 | Sentinel: towards an ambient mobility network. Disability and Rehabilitation, 2003, 25, 940-948. | 1.8 | 5 |
| 151 | FAME: Adding Multi-Level Authentication to Shibboleth. , 2006, , . | | 5 |
| 152 | Functional Units: Abstractions for Web Service Annotations. , 2010, , . | | 5 |
| 153 | MIM: A Minimum Information Model vocabulary and framework for Scientific Linked Data. , 2012, , . | | 5 |
| 154 | Identifiers.org: Compact Identifier services in the cloud. Bioinformatics, 2021, 37, 1781-1782. | 4.1 | 5 |
| 155 | Classification Based Navigation and Retrieval for Picture Archives. , 1999, , 291-310. | | 5 |
| 156 | $\text{\tiny{my}}$ Grid and UTOPIA: An Integrated Approach to Enacting and Visualising in Silico Experiments in the Life Sciences. , 2007, , 59-70. | | 5 |
| 157 | Incorporating Commercial and Private Data into an Open Linked Data Platform for Drug Discovery. Lecture Notes in Computer Science, 2013, , 65-80. | 1.3 | 5 |
| 158 | Opening new gateways to workflows for life scientists. Studies in Health Technology and Informatics, 2012, 175, 131-41. | 0.3 | 5 |
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| 160 | Grid 3.0: Services, semantics and society. , 2007, , . | | 4 |
| 161 | Building the Mobile Web: rediscovering accessibility?. Universal Access in the Information Society, 2007, 6, 219-220. | 3.0 | 4 |
| 162 | Pedro Ontology Services: A Framework for Rapid Ontology Markup. Lecture Notes in Computer Science, 2005, , 578-591. | 1.3 | 4 |

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| 163 | Combining DHTs and SONs for Semantic-Based Service Discovery. , 2009, , . | | 3 |
| 164 | Stealthy annotation of experimental biology by spreadsheets. Concurrency Computation Practice and Experience, 2013, 25, 467-480. | 2.2 | 3 |
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| 166 | Natural Language Search Interfaces: Health Data Needs Single-Field Variable Search. Journal of Medical Internet Research, 2016, 18, e13. | 4.3 | 3 |
| 167 | Api-Centric Linked Data Integration: The Open Phacts Discovery Platform Case Study. SSRN Electronic Journal, 0, , . | 0.4 | 3 |
| 168 | Data Management in Computational Systems Biology: Exploring Standards, Tools, Databases, and Packaging Best Practices. Methods in Molecular Biology, 2019, 2049, 285-314. | 0.9 | 3 |
| 169 | Carole Goble discusses the impact of semantic technologies on the life sciences. Drug Discovery Today Biosilico, 2004, 2, 4-6. | 0.7 | 2 |
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| 171 | ODESGS framework, knowledge-based markup for semantic grid services. , 2005, , . | | 1 |
| 172 | RightField: Semantic enrichment of Systems Biology data using spreadsheets. , 2012, , . | | 1 |
| 173 | Emerging Computational Methods for the Life Sciences Workshop 2012. Concurrency Computation Practice and Experience, 2014, 26, 1231-1233. | 2.2 | 1 |
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| 175 | RightField: Scientific Knowledge Acquisition by Stealth through Ontology-Enabled Spreadsheets. Lecture Notes in Computer Science, 2012, , 438-441. | 1.3 | 1 |
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| 177 | Data Provenance in Scientific Workflows. , 2009, , 46-59. | | 1 |
| 178 | Building Workflows that Traverse the Bioinformatics Data Landscape. , 2009, , 141-163. | | 0 |
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| 181 | Metadata Management in S-OGSA. Lecture Notes in Computer Science, 2007, , 712-719. | 1.3 | 0 |
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| 183 | World Wide Web. , 2013, , 2356-2361. | | 0 |
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| 185 | Using a Suite of Ontologies for Preserving Workflow-Centric Research Objects. SSRN Electronic Journal, 0, , . | 0.4 | 0 |