

# Carole Anne Goble

## List of Publications by Year in descending order

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Version: 2024-02-01

185  
papers

18,011  
citations

61857

43  
h-index

17546

121  
g-index

203  
all docs

203  
docs citations

203  
times ranked

26087  
citing authors

#	ARTICLE	IF	CITATIONS
1	Packaging research artefacts with RO-Crate. <i>Data Science</i> , 2022, 5, 97-138.	0.7	52
2	Methods included. <i>Communications of the ACM</i> , 2022, 65, 54-63.	3.3	55
3	Ten simple rules for making a software tool workflow-ready. <i>PLoS Computational Biology</i> , 2022, 18, e1009823.	1.5	7
4	The Specimen Data Refinery: A Canonical Workflow Framework and FAIR Digital Object Approach to Speeding up Digital Mobilisation of Natural History Collections. <i>Data Intelligence</i> , 2022, 4, 320-341.	0.8	6
5	Selection of data sets for FAIRification in drug discovery and development: Which, why, and how?. <i>Drug Discovery Today</i> , 2022, 27, 2080-2085.	3.2	8
6	Identifiers.org: Compact Identifier services in the cloud. <i>Bioinformatics</i> , 2021, 37, 1781-1782.	1.8	5
7	ISO 23494: Biotechnology "Provenance Information Model for Biological Specimen And Data. <i>Lecture Notes in Computer Science</i> , 2021, , 222-225.	1.0	3
8	ELIXIR"EXCELERATE: establishing Europe's data infrastructure for the life science research of the future. <i>EMBO Journal</i> , 2021, 40, e107409.	3.5	18
9	Perspectives on automated composition of workflows in the life sciences. <i>F1000Research</i> , 2021, 10, 897.	0.8	7
10	Exploring the Current Practices, Costs and Benefits of FAIR Implementation in Pharmaceutical Research and Development: A Qualitative Interview Study. <i>Data Intelligence</i> , 2021, 3, 507-527.	0.8	9
11	Correction to: ISO 23494: Biotechnology "Provenance Information Model for Biological Specimen And Data. <i>Lecture Notes in Computer Science</i> , 2021, , C1-C1.	1.0	0
12	COVID19 Disease Map, a computational knowledge repository of virus"host interaction mechanisms. <i>Molecular Systems Biology</i> , 2021, 17, e10387.	3.2	53
13	A Community Roadmap for Scientific Workflows Research and Development. , 2021, , .		14
14	FAIR Data Reuse "the Path through Data Citation. <i>Data Intelligence</i> , 2020, 2, 78-86.	0.8	33
15	Towards FAIR principles for"research"software. <i>Data Science</i> , 2020, 3, 37-59.	0.7	144
16	FAIR Computational Workflows. <i>Data Intelligence</i> , 2020, 2, 108-121.	0.8	97
17	FAIR Principles: Interpretations and Implementation Considerations. <i>Data Intelligence</i> , 2020, 2, 10-29.	0.8	149
18	Sharing interoperable workflow provenance: A review of best practices and their practical application in CWLProv. <i>GigaScience</i> , 2019, 8, .	3.3	49

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19	BioExcel Building Blocks, a software library for interoperable biomolecular simulation workflows. <i>Scientific Data</i> , 2019, 6, 169.	2.4	35
20	Data Management in Computational Systems Biology: Exploring Standards, Tools, Databases, and Packaging Best Practices. <i>Methods in Molecular Biology</i> , 2019, 2049, 285-314.	0.4	3
21	Marine long-term biodiversity assessment suggests loss of rare species in the Skagerrak and Kattegat region. <i>Marine Biodiversity</i> , 2018, 48, 2165-2176.	0.3	12
22	Enabling precision medicine via standard communication of HTS provenance, analysis, and results. <i>PLoS Biology</i> , 2018, 16, e3000099.	2.6	29
23	LabelFlow Framework for Annotating Workflow Provenance. <i>Informatics</i> , 2018, 5, 11.	2.4	6
24	FAIRDOMHub: a repository and collaboration environment for sharing systems biology research. <i>Nucleic Acids Research</i> , 2017, 45, D404-D407.	6.5	98
25	Four simple recommendations to encourage best practices in research software. <i>F1000Research</i> , 2017, 6, 876.	0.8	88
26	Developing a strategy for computational lab skills training through Software and Data Carpentry: Experiences from the ELIXIR Pilot action. <i>F1000Research</i> , 2017, 6, 1040.	0.8	8
27	Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data. <i>PLoS Biology</i> , 2017, 15, e2001414.	2.6	97
28	I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets. , 2016, , .		33
29	The FAIR Guiding Principles for scientific data management and stewardship. <i>Scientific Data</i> , 2016, 3, 160018.	2.4	8,670
30	SYNBIOCHEM—a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016, 44, 675-677.	1.6	7
31	BioVeL: a virtual laboratory for data analysis and modelling in biodiversity science and ecology. <i>BMC Ecology</i> , 2016, 16, 49.	3.0	45
32	The Human Physiome: how standards, software and innovative service infrastructures are providing the building blocks to make it achievable. <i>Interface Focus</i> , 2016, 6, 20150103.	1.5	30
33	Natural Language Search Interfaces: Health Data Needs Single-Field Variable Search. <i>Journal of Medical Internet Research</i> , 2016, 18, e13.	2.1	3
34	The evolution of standards and data management practices in systems biology. <i>Molecular Systems Biology</i> , 2015, 11, 851.	3.2	35
35	Using a suite of ontologies for preserving workflow-centric research objects. <i>Web Semantics</i> , 2015, 32, 16-42.	2.2	94
36	SEEK: a systems biology data and model management platform. <i>BMC Systems Biology</i> , 2015, 9, 33.	3.0	75

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37	ReputationNet: Reputation-Based Service Recommendation for e-Science. IEEE Transactions on Services Computing, 2015, 8, 439-452.	3.2	12
38	Structuring research methods and data with the research object model: genomics workflows as a case study. Journal of Biomedical Semantics, 2014, 5, 41.	0.9	26
39	Software in reproducible research. , 2014, , .		6
40	Better Software, Better Research. IEEE Internet Computing, 2014, 18, 4-8.	3.2	44
41	Emerging Computational Methods for the Life Sciences Workshop 2012. Concurrency Computation Practice and Experience, 2014, 26, 1231-1233.	1.4	1
42	Distilling structure in Taverna scientific workflows: a refactoring approach. BMC Bioinformatics, 2014, 15, S12.	1.2	13
43	API-centric Linked Data integration: The Open PHACTS Discovery Platform case study. Web Semantics, 2014, 29, 12-18.	2.2	44
44	Common motifs in scientific workflows: An empirical analysis. Future Generation Computer Systems, 2014, 36, 338-351.	4.9	57
45	Applying linked data approaches to pharmacology: Architectural decisions and implementation. Semantic Web, 2014, 5, 101-113.	1.1	41
46	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
47	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. Lecture Notes in Computer Science, 2014, , 98-113.	1.0	16
48	A semi-automated workflow for biodiversity data retrieval, cleaning, and quality control. Biodiversity Data Journal, 2014, 2, e4221.	0.4	49
49	DistillFlow. , 2014, , .		0
50	PAV ontology: provenance, authoring and versioning. Journal of Biomedical Semantics, 2013, 4, 37.	0.9	64
51	The Software Sustainability Institute: Changing Research Software Attitudes and Practices. Computing in Science and Engineering, 2013, 15, 74-80.	1.2	55
52	Small Is Beautiful: Summarizing Scientific Workflows Using Semantic Annotations. , 2013, , .		18
53	Why linked data is not enough for scientists. Future Generation Computer Systems, 2013, 29, 599-611.	4.9	230
54	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.	6.5	567

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55	Stealthy annotation of experimental biology by spreadsheets. <i>Concurrency Computation Practice and Experience</i> , 2013, 25, 467-480.	1.4	3
56	Semantic Data and Models Sharing in Systems Biology: The Just Enough Results Model and the SEEK Platform. <i>Lecture Notes in Computer Science</i> , 2013, , 212-227.	1.0	6
57	Incorporating Commercial and Private Data into an Open Linked Data Platform for Drug Discovery. <i>Lecture Notes in Computer Science</i> , 2013, , 65-80.	1.0	5
58	World Wide Web. , 2013, , 2356-2361.		0
59	Why workflows break &#x2014; Understanding and combating decay in Taverna workflows. , 2012, , .		48
60	Toward interoperable bioscience data. <i>Nature Genetics</i> , 2012, 44, 121-126.	9.4	362
61	MIM: A Minimum Information Model vocabulary and framework for Scientific Linked Data. , 2012, , .		5
62	ReputationNet: A Reputation Engine to Enhance ServiceMap by Recommending Trusted Services. , 2012, , .		13
63	Common motifs in scientific workflows: An empirical analysis. , 2012, , .		18
64	RightField: Semantic enrichment of Systems Biology data using spreadsheets. , 2012, , .		1
65	Open PHACTS: semantic interoperability for drug discovery. <i>Drug Discovery Today</i> , 2012, 17, 1188-1198.	3.2	274
66	RightField: Scientific Knowledge Acquisition by Stealth through Ontology-Enabled Spreadsheets. <i>Lecture Notes in Computer Science</i> , 2012, , 438-441.	1.0	1
67	Opening new gateways to workflows for life scientists. <i>Studies in Health Technology and Informatics</i> , 2012, 175, 131-41.	0.2	5
68	Fostering Scientific Workflow Preservation through Discovery of Substitute Services. , 2011, , .		11
69	ServiceMap: Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , .		20
70	The SEEK. <i>Methods in Enzymology</i> , 2011, 500, 629-655.	0.4	44
71	OneStop:JWS Online's access point to SBML,SBCN and MIRIAM compliant annotation. <i>Nature Precedings</i> , 2011, , .	0.1	0
72	Extending Semantic Provenance into the Web of Data. <i>IEEE Internet Computing</i> , 2011, 15, 40-48.	3.2	18

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73	Workflows to open provenance graphs, round-trip. <i>Future Generation Computer Systems</i> , 2011, 27, 812-819.	4.9	11
74	Quality, trust, and utility of scientific data on the web. , 2011, , .		25
75	Scientific Social Objects: The Social Objects and Multidimensional Network of the myExperiment Website. , 2011, , .		10
76	RightField: embedding ontology annotation in spreadsheets. <i>Bioinformatics</i> , 2011, 27, 2021-2022.	1.8	69
77	A comparison of using Taverna and BPEL in building scientific workflows: the case of caGrid. <i>Concurrency Computation Practice and Experience</i> , 2010, 22, 1098-1117.	1.4	13
78	Elements of a computational infrastructure for social simulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3797-3812.	1.6	19
79	Community-driven computational biology with Debian Linux. <i>BMC Bioinformatics</i> , 2010, 11, S5.	1.2	42
80	Towards open science: the myExperiment approach. <i>Concurrency Computation Practice and Experience</i> , 2010, 22, 2335-2353.	1.4	25
81	A formal semantics for the Taverna 2 workflow model. <i>Journal of Computer and System Sciences</i> , 2010, 76, 490-508.	0.9	28
82	An ActOn-based semantic information service for Grids. <i>Future Generation Computer Systems</i> , 2010, 26, 324-336.	4.9	9
83	Research Objects: Towards Exchange and Reuse of Digital Knowledge. <i>Nature Precedings</i> , 2010, , .	0.1	105
84	Linking multiple workflow provenance traces for interoperable collaborative science. , 2010, , .		28
85	XGAP: a uniform and extensible data model and software platform for genotype and phenotype experiments. <i>Genome Biology</i> , 2010, 11, R27.	13.9	20
86	Functional Units: Abstractions for Web Service Annotations. , 2010, , .		5
87	ERGOT: A Semantic-Based System for Service Discovery in Distributed Infrastructures. , 2010, , .		25
88	The Evolution of myExperiment. , 2010, , .		11
89	Why Linked Data is Not Enough for Scientists. , 2010, , .		37
90	Supporting e-Science Using Semantic Web Technologies â€” The Semantic Grid. <i>Annals of Information Systems</i> , 2010, , 1-28.	0.5	1

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91	Taverna, Reloaded. Lecture Notes in Computer Science, 2010, , 471-481.	1.0	93
92	Janus: From Workflows to Semantic Provenance and Linked Open Data. Lecture Notes in Computer Science, 2010, , 129-141.	1.0	39
93	Open workflow infrastructure. , 2010, , .		1
94	Building Workflows that Traverse the Bioinformatics Data Landscape. , 2009, , 141-163.		0
95	BioCatalogue: A Curated Web Service Registry For The Life Science Community. Nature Precedings, 2009, , .	0.1	13
96	Combining DHTs and SONS for Semantic-Based Service Discovery. , 2009, , .		3
97	Benchmarking workflow discovery: a case study from bioinformatics. Concurrency Computation Practice and Experience, 2009, 21, 2052-2069.	1.4	8
98	The design and realisation of the Virtual Research Environment for social sharing of workflows. Future Generation Computer Systems, 2009, 25, 561-567.	4.9	407
99	Heterogeneous composition of models of computation. Future Generation Computer Systems, 2009, 25, 552-560.	4.9	44
100	The data playground: An intuitive workflow specification environment. Future Generation Computer Systems, 2009, 25, 453-459.	4.9	8
101	Software Design for Empowering Scientists. IEEE Software, 2009, 26, 88-95.	2.1	61
102	Scientific Workflows as Services in caGrid: A Taverna and gRAVI Approach. , 2009, , .		12
103	Medical image processing workflow support on the EGEE grid with taverna. , 2009, , .		10
104	Scientific Process Automation and Workflow Management. Chapman & Hall/CRC Computational Science, 2009, , .	0.5	44
105	Data Provenance in Scientific Workflows. , 2009, , 46-59.		1
106	Mining Taverna's semantic web of provenance. Concurrency Computation Practice and Experience, 2008, 20, 463-472.	1.4	85
107	In situ migration of handcrafted ontologies to reason-able forms. Data and Knowledge Engineering, 2008, 66, 147-162.	2.1	10
108	State of the nation in data integration for bioinformatics. Journal of Biomedical Informatics, 2008, 41, 687-693.	2.5	244

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109	Metadata Management in the Taverna Workflow System. , 2008, , .		30
110	myExperiment: Defining the Social Virtual Research Environment. , 2008, , .		46
111	Data curation + process curation=data integration + science. Briefings in Bioinformatics, 2008, 9, 506-517.	3.2	53
112	Data Lineage Model for Taverna Workflows with Lightweight Annotation Requirements. Lecture Notes in Computer Science, 2008, , 17-30.	1.0	40
113	Workflow Discovery. International Journal of Web Services Research, 2008, 5, 32-58.	0.5	9
114	Re-Evaluating The Grid: The Social Life of Programs. , 2008, , 201-211.		0
115	A roadmap for caGrid, an enterprise Grid architecture for biomedical research. Studies in Health Technology and Informatics, 2008, 138, 224-37.	0.2	9
116	Composing Different Models of Computation in Kepler and Ptolemy II. Lecture Notes in Computer Science, 2007, , 182-190.	1.0	23
117	The Data Playground: An Intuitive Workflow Specification Environment. , 2007, , .		13
118	Using provenance to manage knowledge of In Silico experiments. Briefings in Bioinformatics, 2007, 8, 183-194.	3.2	31
119	myExperiment. , 2007, , .		78
120	Grid metadata management: Requirements and architecture. , 2007, , .		7
121	Requirements and Services for Metadata Management. IEEE Internet Computing, 2007, 11, 17-25.	3.2	17
122	Designing the myExperiment Virtual Research Environment for the Social Sharing of Workflows. , 2007, , .		52
123	Taverna Workflows: Syntax and Semantics. , 2007, , .		63
124	An ActOn-based semantic information service for EGEE. , 2007, , .		2
125	Evaluating DANTE. ACM Transactions on Computer-Human Interaction, 2007, 14, 14.	4.6	58
126	Grid 3.0: Services, semantics and society. , 2007, , .		4



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127	Recycling workflows and services through discovery and reuse. Concurrency Computation Practice and Experience, 2007, 19, 181-194.	1.4	19
128	Examining the Challenges of Scientific Workflows. Computer, 2007, 40, 24-32.	1.2	406
129	Building the Mobile Web: rediscovering accessibility?. Universal Access in the Information Society, 2007, 6, 219-220.	2.1	4
130	Knowledge Discovery for Biology with Taverna. , 2007, , 355-395.		12
131	Taverna/myGrid: Aligning a Workflow System with the Life Sciences Community. , 2007, , 300-319.		51
132	\$^{extrm{small{my}}}\$ Grid and UTOPIA: An Integrated Approach to Enacting and Visualising in Silico Experiments in the Life Sciences. , 2007, , 59-70.		5
133	Metadata Management in S-OGSA. Lecture Notes in Computer Science, 2007, , 712-719.	1.0	0
134	Taverna: a tool for building and running workflows of services. Nucleic Acids Research, 2006, 34, W729-W732.	6.5	758
135	FAME: Adding Multi-Level Authentication to Shibboleth. , 2006, , .		5
136	Workflow discovery: the problem, a case study from e-Science and a graph-based solution. , 2006, , .		46
137	An overview of S-OGSA: A Reference Semantic Grid Architecture. Web Semantics, 2006, 4, 102-115.	2.2	69
138	Taverna: lessons in creating a workflow environment for the life sciences. Concurrency Computation Practice and Experience, 2006, 18, 1067-1100.	1.4	485
139	e-Science and the Semantic Web: A Symbiotic Relationship. Lecture Notes in Computer Science, 2006, , 1-12.	1.0	6
140	An Identity Crisis in the Life Sciences. Lecture Notes in Computer Science, 2006, , 254-269.	1.0	14
141	Guest editors' introduction to the special section on scientific workflows. SIGMOD Record, 2005, 34, 3-4.	0.7	49
142	Learning domain ontologies for semantic Web service descriptions. Web Semantics, 2005, 3, 340-365.	2.2	71
143	SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. Computational Intelligence, 2005, 21, 157-176.	2.1	26
144	Accessibility. , 2005, , .		52

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145	Learning domain ontologies for Web service descriptions. , 2005, , .		72
146	ODESGS framework, knowledge-based markup for semantic grid services. , 2005, , .		1
147	Augmenting the mobility of profoundly blind Web travellers. <i>New Review of Hypermedia and Multimedia</i> , 2005, 11, 103-128.	0.9	11
148	Feta: A Light-Weight Architecture for User Oriented Semantic Service Discovery. <i>Lecture Notes in Computer Science</i> , 2005, , 17-31.	1.0	64
149	The Semantic Web and Knowledge Grids. <i>Drug Discovery Today: Technologies</i> , 2005, 2, 225-233.	4.0	10
150	Seven Bottlenecks to Workflow Reuse and Repurposing. <i>Lecture Notes in Computer Science</i> , 2005, , 323-337.	1.0	57
151	Pedro Ontology Services: A Framework for Rapid Ontology Markup. <i>Lecture Notes in Computer Science</i> , 2005, , 578-591.	1.0	4
152	Semantic web applications to e-science in silico experiments. , 2004, , .		4
153	DANTE. , 2004, , .		21
154	The Montagues and the Capulets. <i>Comparative and Functional Genomics</i> , 2004, 5, 623-632.	2.0	9
155	A short study on the success of the Gene Ontology. <i>Web Semantics</i> , 2004, 1, 235-240.	2.2	61
156	Using Semantic Web Technologies for Representing E-science Provenance. <i>Lecture Notes in Computer Science</i> , 2004, , 92-106.	1.0	83
157	Applying Semantic Web Services to Bioinformatics: Experiences Gained, Lessons Learnt. <i>Lecture Notes in Computer Science</i> , 2004, , 350-364.	1.0	55
158	Carole Goble discusses the impact of semantic technologies on the life sciences. <i>Drug Discovery Today Biosilico</i> , 2004, 2, 4-6.	0.7	2
159	myGrid and the drug discovery process. <i>Drug Discovery Today Biosilico</i> , 2004, 2, 140-148.	0.7	30
160	Screen Readers Cannot See. <i>Lecture Notes in Computer Science</i> , 2004, , 445-458.	1.0	23
161	Semantically Linking and Browsing Provenance Logs for E-science. <i>Lecture Notes in Computer Science</i> , 2004, , 158-176.	1.0	41
162	Semantic Web Based Content Enrichment and Knowledge Reuse in E-science. <i>Lecture Notes in Computer Science</i> , 2004, , 654-669.	1.0	7

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163	Building Ontologies in DAML + OIL. Comparative and Functional Genomics, 2003, 4, 133-141.	2.0	17
164	Sentinel: towards an ambient mobility network. Disability and Rehabilitation, 2003, 25, 940-948.	0.9	5
165	A SUITE OF DAML+OIL ONTOLOGIES TO DESCRIBE BIOINFORMATICS WEB SERVICES AND DATA. International Journal of Cooperative Information Systems, 2003, 12, 197-224.	0.6	126
166	A foundation for tool based mobility support for visually impaired web users. , 2003, , .		34
167	Towards a Knowledge-Based Approach to Semantic Service Composition. Lecture Notes in Computer Science, 2003, , 319-334.	1.0	67
168	The Grid Needs You! Enlist Now. Lecture Notes in Computer Science, 2003, , 589-600.	1.0	9
169	The Grid. SIGMOD Record, 2002, 31, 65-70.	0.7	49
170	Report on the EDBT'02 panel on scientific data integration. SIGMOD Record, 2002, 31, 107-112.	0.7	10
171	Report on the 18 th British National Conference on Databases (BNCOD). SIGMOD Record, 2002, 31, 109-112.	0.7	32
172	OILing the way to machine understandable bioinformatics resources. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 129-134.	3.6	21
173	Building a bioinformatics ontology using OIL. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 135-141.	3.6	44
174	Thesaurus construction through knowledge representation. Data and Knowledge Engineering, 2001, 37, 25-45.	2.1	22
175	The Low Down on e-Science and Grids for Biology. Comparative and Functional Genomics, 2001, 2, 365-370.	2.0	11
176	A classification of tasks in bioinformatics. Bioinformatics, 2001, 17, 180-188.	1.8	123
177	Conceptual linking. , 2001, , .		94
178	The travails of visually impaired web travellers. , 2000, , .		55
179	Classification Based Navigation and Retrieval for Picture Archives. , 1999, , 291-310.		5
180	TourisT. , 1998, , .		9

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181	Kaleidoquery. , 1998, , .		26
182	Data management challenges for artificial intelligence in plant and agricultural research. F1000Research, 0, 10, 324.	0.8	7
183	Landscape Analysis for the Specimen Data Refinery. Research Ideas and Outcomes, 0, 6, .	1.0	15
184	Api-Centric Linked Data Integration: The Open Phacts Discovery Platform Case Study. SSRN Electronic Journal, 0, , .	0.4	3
185	Using a Suite of Ontologies for Preserving Workflow-Centric Research Objects. SSRN Electronic Journal, 0, , .	0.4	0