Mark D Wilkinson

List of Publications by Citations

85 papers	7,492 citations	24 h-index	86 g-index
113 ext. papers	10,240 ext. citations	4.8 avg, IF	5.07 L-index

#	Paper	IF	Citations
85	The FAIR Guiding Principles for scientific data management and stewardship. *Scientific Data*, **2016**, 3, 160018	8.2	4154
84	The Bioperl toolkit: Perl modules for the life sciences. *Genome Research*, **2002**, 12, 1611-8	9.7	1234
83	BioMOBY: an open source biological web services proposal. *Briefings in Bioinformatics*, **2002**, 3, 331-41	13.4	252
82	Parallels between UNUSUAL FLORAL ORGANS and FIMBRIATA, genes controlling flower development in Arabidopsis and Antirrhinum. *Plant Cell*, **1995**, 7, 1501-10	11.6	163
81	Cloudy, increasingly FAIR; revisiting the FAIR Data guiding principles for the European Open Science Cloud. *Information Services and Use*, **2017**, 37, 49-56	0.5	138
80	The Semanticscience Integrated Ontology (SIO) for biomedical research and knowledge discovery. *Journal of Biomedical Semantics*, **2014**, 5, 14	2.2	101
79	Tag clouds for summarizing web search results **2007**,		97
78	A design framework and exemplar metrics for FAIRness. *Scientific Data*, **2018**, 5, 180118	8.2	90
77	Quantitative evaluation of bias in PCR amplification and next-generation sequencing derived from metabarcoding samples. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 1841-8	4.4	77
76	The Semantic Automated Discovery and Integration (SADI) Web service Design-Pattern, API and Reference Implementation. *Journal of Biomedical Semantics*, **2011**, 2, 8	2.2	77
75	Interoperability with Moby 1.0--it's better than sharing your toothbrush!. *Briefings in Bioinformatics*, **2008**, 9, 220-31	13.4	73
74	BioMOBY successfully integrates distributed heterogeneous bioinformatics Web Services. The PlaNet exemplar case. *Plant Physiology*, **2005**, 138, 5-17	6.6	71
73	FAIR Principles: Interpretations and Implementation Considerations. *Data Intelligence*, **2020**, 2, 10-29	3	66
72	The Life Sciences Semantic Web is full of creeps!. *Briefings in Bioinformatics*, **2006**, 7, 275-86	13.4	65
71	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. *Journal of Biomedical Semantics*, **2014**, 5, 5	2.2	42
70	Evaluating FAIR maturity through a scalable, automated, community-governed framework. *Scientific Data*, **2019**, 6, 174	8.2	41
69	BioMoby extensions to the Taverna workflow management and enactment software. *BMC Bioinformatics*, **2006**, 7, 523	3.6	41

68	The relationship between host lifespan and pathogen reservoir potential: an analysis in the system Arabidopsis thaliana--cucumber mosaic virus. *PLoS Pathogens*, **2014**, 10, e1004492	7.6	40
67	Semi-automatic web service composition for the life sciences using the BioMoby semantic web framework. *Journal of Biomedical Informatics*, **2008**, 41, 837-47	10.2	39
66	Interoperability and FAIRness through a novel combination of Web technologies. *PeerJ Computer Science*,3, e110	2.7	38
65	Applying Semantic Web Services to Bioinformatics: Experiences Gained, Lessons Learnt. *Lecture Notes in Computer Science*, **2004**, 350-364	0.9	34
64	Unusual Floral Organs Controls Meristem Identity and Organ Primordia Fate in Arabidopsis. *Plant Cell*, **1995**, 7, 1485	11.6	31
63	SADI, SHARE, and the in silico scientific method. *BMC Bioinformatics*, **2010**, 11 Suppl 12, S7	3.6	25
62	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. The DBCLS BioHackathon Consortium*. *Journal of Biomedical Semantics*, **2010**, 1, 8	2.2	24
61	The 3rd DBCLS BioHackathon: improving life science data integration with Semantic Web technologies. *Journal of Biomedical Semantics*, **2013**, 4, 6	2.2	22
60	SHARE: A Semantic Web Query Engine for Bioinformatics. *Lecture Notes in Computer Science*, **2009**, 367-369	0.9	21
59	Molecular characterization of a novel ssRNA ourmia-like virus from the rice blast fungus Magnaporthe oryzae. *Archives of Virology*, **2017**, 162, 891-895	2.6	19
58	The emergent discipline of health web science. *Journal of Medical Internet Research*, **2013**, 15, e166	7.6	19
57	Moby and Moby 2: creatures of the deep (web). *Briefings in Bioinformatics*, **2009**, 10, 114-28	13.4	18
56	Comparison of ESTs from juvenile and adult phases of the giant unicellular green alga Acetabularia acetabulum. *BMC Plant Biology*, **2004**, 4, 3	5.3	18
55	Gbrowse Moby: a Web-based browser for BioMoby Services. *Source Code for Biology and Medicine*, **2006**, 1, 4	1.9	16
54	The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. *Journal of Biomedical Semantics*, **2011**, 2, 4	2.2	15
53	Publishing FAIR Data: An Exemplar Methodology Utilizing PHI-Base. *Frontiers in Plant Science*, **2016**, 7, 641	6.2	15
52	iHOPerator: user-scripting a personalized bioinformatics Web, starting with the iHOP website. *BMC Bioinformatics*, **2006**, 7, 534	3.6	14
51	Semantically-Guided Workflow Construction in Taverna: The SADI and BioMoby Plug-Ins. *Lecture Notes in Computer Science*, **2010**, 301-312	0.9	14

50 — Analysis of a multilevel diagnosis decision support system and its implications: a case study. *Computational and Mathematical Methods in Medicine*, **2012**, 2012, 367345 — 2.8 — 13

49 — SADI Semantic Web Services - 'cause you can't always GET what you want! **2009**, — 13

48 — MECP2 variation in Rett syndrome-An overview of current coverage of genetic and phenotype data within existing databases. *Human Mutation*, **2018**, 39, 914-924 — 4.7 — 12

47 — Social tagging in the life sciences: characterizing a new metadata resource for bioinformatics. *BMC Bioinformatics*, **2009**, 10, 313 — 3.6 — 12

46 — Enhanced reproducibility of SADI web service workflows with Galaxy and Docker. *GigaScience*, **2015**, 4, 59 — 7.6 — 11

45 — Automatically exposing OpenLifeData via SADI semantic Web Services. *Journal of Biomedical Semantics*, **2014**, 5, 46 — 2.2 — 10

44 — Genome-wide analysis of the H3K27me3 epigenome and transcriptome in Brassica rapa. *GigaScience*, **2019**, 8, — 7.6 — 10

43 — Endogenous indole-3-acetamide levels contribute to the crosstalk between auxin and abscisic acid, and trigger plant stress responses in Arabidopsis. *Journal of Experimental Botany*, **2021**, 72, 459-475 — 7 — 10

42 — Optimization of Distributed SPARQL Queries Using Edmonds' Algorithm and Prim's Algorithm **2009**, — 9

41 — Different Roles of Flowering-Time Genes in the Activation of Floral Initiation Genes in Arabidopsis. *Plant Cell*, **1997**, 9, 1921 — 11.6 — 9

40 — MDPbiome: microbiome engineering through prescriptive perturbations. *Bioinformatics*, **2018**, 34, i838-i847 — 9

39 — Preparing Data at the Source to Foster Interoperability across Rare Disease Resources. *Advances in Experimental Medicine and Biology*, **2017**, 1031, 165-179 — 3.6 — 8

38 — Vcsa1 gene peptides for the treatment of inflammatory and allergic reactions. *Recent Patents on Inflammation and Allergy Drug Discovery*, **2007**, 1, 124-32 — 5.4 — 8

37 — Genquire: genome annotation browser/editor. *Bioinformatics*, **2002**, 18, 1398-9 — 7.2 — 8

36 — Diagnostic Knowledge Extraction from MedlinePlus: An Application for Infectious Diseases. *Advances in Intelligent Systems and Computing*, **2015**, 79-87 — 0.4 — 7

35 — VPS13D Gene Variant Is Associated with Altered IL-6 Production and Mortality in Septic Shock. *Journal of Innate Immunity*, **2015**, 7, 545-53 — 6.9 — 7

34 — SPARQL assist language-neutral query composer. *BMC Bioinformatics*, **2012**, 13 Suppl 1, S2 — 3.6 — 7

33 — The SADI Personal Health Lens: A Web Browser-Based System for Identifying Personally Relevant Drug Interactions. *JMIR Research Protocols*, **2013**, 2, e14 — 2 — 7

32	Executing SADI services in Galaxy. *Journal of Biomedical Semantics*, **2014**, 5, 42	2.2	6
31	DataBiNS: a BioMoby-based data-mining workflow for biological pathways and non-synonymous SNPs. *Bioinformatics*, **2007**, 23, 780-2	7.2	6
30	FAST, CHEAP AND OUT OF CONTROL: A ZERO CURATION MODEL FOR ONTOLOGY DEVELOPMENT **2005**,		6
29	OWL-DL Domain-Models as Abstract Workflows. *Lecture Notes in Computer Science*, **2012**, 56-66	0.9	6
28	Evaluating FAIR-Compliance Through an Objective, Automated, Community-Governed Framework		5
27	Extending and encoding existing biological terminologies and datasets for use in the reasoned semantic web. *Journal of Biomedical Semantics*, **2012**, 3, 6	2.2	4
26	Robust and automatic definition of microbiome states. *PeerJ*, **2019**, 7, e6657	3.1	4
25	Automatic detection and resolution of measurement-unit conflicts in aggregated data. *BMC Medical Genomics*, **2014**, 7 Suppl 1, S12	3.7	3
24	Health Web Science. *Foundations and Trends in Web Science*, **2013**, 4, 269-419	0	3
23	Using a Novel Data Transformation Technique to Provide the EMBOSS Software Suite as Semantic Web Services **2007**,		3
22	The generation challenge programme platform: semantic standards and workbench for crop science. *International Journal of Plant Genomics*, **2008**, 2008, 369601		3
21	Extracting Diagnostic Knowledge from MedLine Plus: A Comparison between MetaMap and cTAKES Approaches. *Current Bioinformatics*, **2018**, 13, 573-582	4.7	3
20	Interoperability and FAIRness through a novel combination of Web technologies		3
19	Evaluating FAIR Maturity Through a Scalable, Automated, Community-Governed Framework		3
18	Virulence- and signaling-associated genes display a preference for long 3'UTRs during rice infection and metabolic stress in the rice blast fungus. *New Phytologist*, **2019**, 221, 399-414	9.8	3
17	OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. *Journal of Biomedical Semantics*, **2013**, 4, 2	2.2	2
16	Leveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and Applications. *Lecture Notes in Computer Science*, **2014**,	0.9	2
15	Genomics data resources: frameworks and standards. *Methods in Molecular Biology*, **2012**, 856, 489-511	1.4	2

14	The Semantic Automated Discovery and Integration (SADI) Web service Design-Pattern, API and Reference Implementation. *Nature Precedings*, **2011**,		2
13	OWL2Perl: creating Perl modules from OWL class definitions. *Bioinformatics*, **2010**, 26, 2357-8	7.2	2
12	BioHackathon 2015: Semantics of data for life sciences and reproducible research. *F1000Research*, **2020**, 9, 136	3.6	2
11	Genome-wide polyadenylation site mapping datasets in the rice blast fungus Magnaporthe oryzae. *Scientific Data*, **2018**, 5, 180271	8.2	2
10	A design framework and exemplar metrics for FAIRness		2
9	Tools in Scientific Workflow Composition. *Lecture Notes in Computer Science*, **2010**, 258-260	0.9	2
8	Automatic Annotation of Bioinformatics Workflows with Biomedical Ontologies. *Lecture Notes in Computer Science*, **2014**, 464-478	0.9	2
7	Nanopublishing Clinical Diagnoses: Tracking Diagnostic Knowledge Base Content and Utilization **2014**,		1
6	Bioinformatics Tools for Next-Generation RNA Sequencing Analysis **2014**, 371-391		1
5	Interoperability With Moby 1.0 - It's Better Than Sharing Your Toothbrush!. *Nature Precedings*, **2008**,		1
4	Semantic modelling of Common Data Elements for Rare Disease registries, and a prototype workflow for their deployment over registry data		1
3	Semantic modelling of common data elements for rare disease registries, and a prototype workflow for their deployment over registry data.. *Journal of Biomedical Semantics*, **2022**, 13, 9	2.2	0
2	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. *F1000Research*,8, 1677	3.6	
1	Bioscientific Data Processing and Modeling. *Lecture Notes in Computer Science*, **2012**, 7-11	0.9	