Susanna-Assunta Sansone

List of Publications by Year
in descending order

112	21,858	41344 49	24258 110
papers	citations	h-index	g-index

136	136	136	34163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data, 2016, 3, 160018.	5.3	8,670
2	The OBO Foundry: coordinated evolution of ontologies to support biomedical data integration. Nature Biotechnology, 2007, 25, 1251-1255.	17.5	1,955
3	The minimum information about a genome sequence (MIGS) specification. Nature Biotechnology, 2008, 26, 541-547.	17.5	1,069
4	A comprehensive assessment of RNA-seq accuracy, reproducibility and information content by the Sequencing Quality Control Consortium. Nature Biotechnology, 2014, 32, 903-914.	17.5	883
5	ArrayExpress--a public repository for microarray gene expression data at the EBI. Nucleic Acids Research, 2003, 31, 68-71.	14.5	727
6	MetaboLightsâ€"an open-access general-purpose repository for metabolomics studies and associated meta-data. Nucleic Acids Research, 2013, 41, D781-D786.	14.5	578
7	Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. Nature Biotechnology, 2008, 26, 889-896.	17.5	506
8	The metabolomics standards initiative (MSI). Metabolomics, 2007, 3, 175-178.	3.0	396
9	ArrayExpress update--from an archive of functional genomics experiments to the atlas of gene expression. Nucleic Acids Research, 2009, 37, D868-D872.	14.5	380
10	Toward interoperable bioscience data. Nature Genetics, 2012, 44, 121-126.	21.4	362
11	The Metabolomics Standards Initiative. Nature Biotechnology, 2007, 25, 846-848.	17.5	328
12	Summary recommendations for standardization and reporting of metabolic analyses. Nature Biotechnology, 2005, 23, 833-838.	17.5	261
13	ISA software suite: supporting standards-compliant experimental annotation and enabling curation at the community level. Bioinformatics, 2010, 26, 2354-2356.	4.1	247
14	FAIRsharing as a community approach to standards, repositories and policies. Nature Biotechnology, 2019, 37, 358-367.	17.5	228
15	The Ontology for Biomedical Investigations. PLoS ONE, 2016, 11, e0154556.	2.5	217
16	Modeling biomedical experimental processes with OBI. Journal of Biomedical Semantics, 2010, 1, S7.	1.6	207
17	The MGED Ontology: a resource for semantics-based description of microarray experiments. Bioinformatics, 2006, 22, 866-873.	4.1	190
18	The Genomic Standards Consortium. PLoS Biology, 2011, 9, e1001088.	5.6	180

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19	Reporting guidelines for human microbiome research: the STORMS checklist. Nature Medicine, 2021, 27, 1885-1892.	30.7	170
20	Discovering and linking public omics data sets using the Omics Discovery Index. Nature Biotechnology, 2017, 35, 406-409.	17.5	159
21	FAIR Principles: Interpretations and Implementation Considerations. Data Intelligence, 2020, 2, 10-29.	1.5	149
22	A design framework and exemplar metrics for FAIRness. Scientific Data, 2018, 5, 180118.	5.3	145
23	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
24	'Omics Data Sharing. Science, 2009, 326, 234-236.	12.6	136
25	EBI metagenomicsâ€"a new resource for the analysis and archiving of metagenomic data. Nucleic Acids Research, 2014, 42, D600-D606.	14.5	127
26	Database development in toxicogenomics: issues and efforts.. Environmental Health Perspectives, 2004, 112, 495-505.	6.0	112
27	Minimum information specification for in situ hybridization and immunohistochemistry experiments (MISFISHIE). Nature Biotechnology, 2008, 26, 305-312.	17.5	111
28	Measures for interoperability of phenotypic data: minimum information requirements and formatting. Plant Methods, 2016, 12, 44.	4.3	109
29	Establishing Reporting Standards for Metabolomic and Metabonomic Studies: A Call for Participation. OMICS A Journal of Integrative Biology, 2006, 10, 158-163.	2.0	100
30	Data standards can boost metabolomics research, and if there is a will, there is a way. Metabolomics, 2016, 12, 14.	3.0	97
31	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
32	The Functional Genomics Experiment model (FuGE): an extensible framework for standards in functional genomics. Nature Biotechnology, 2007, 25, 1127-1133.	17.5	96
33	Standard reporting requirements for biological samples in metabolomics experiments: environmental context. Metabolomics, 2007, 3, 203-210.	3.0	93
34	BioSharing: curated and crowd-sourced metadata standards, databases and data policies in the life sciences. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw075.	3.0	84
35	Enabling reusability of plant phenomic datasets with MIAPPE 1.1. New Phytologist, 2020, 227, 260-273.	7.3	84
36	Evaluating FAIR maturity through a scalable, automated, community-governed framework. Scientific Data, 2019, 6, 174.	5.3	82

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37	MetaboLights: towards a new COSMOS of metabolomics data management. Metabolomics, 2012, 8, 757-760.	3.0	79
38	Finding useful data across multiple biomedical data repositories using DataMed. Nature Genetics, 2017, 49, 816-819.	21.4	77
39	The center for expanded data annotation and retrieval. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1148-1152.	4.4	74
40	Data Standards for Omics Data: The Basis of Data Sharing and Reuse. Methods in Molecular Biology, 2011, 719, 31-69.	0.9	73
41	ArrayExpress: a public database of gene expression data at EBI. Comptes Rendus - Biologies, 2003, 326, 1075-1078.	0.2	69
42	DATS, the data tag suite to enable discoverability of datasets. Scientific Data, 2017, 4, 170059.	5.3	67
43	The carcinoGENOMICS project: Critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays. Mutation Research - Reviews in Mutation Research, 2008, 659, 202-210.	5.5	60
44	PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, .	6.4	60
45	The genomic standards consortium: bringing standards to life for microbial ecology. ISME Journal, 2011, 5, 1565-1567.	9.8	59
46	Development of FuGO: An Ontology for Functional Genomics Investigations. OMICS A Journal of Integrative Biology, 2006, 10, 199-204.	2.0	56
47	COVID-19 pandemic reveals the peril of ignoring metadata standards. Scientific Data, 2020, 7, 188.	5.3	56
48	DataMed â€“ an open source discovery index for finding biomedical datasets. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 300-308.	4.4	54
49	Metabolomics standards initiative: ontology working group work in progress. Metabolomics, 2007, 3, 249-256.	3.0	52
50	A sea of standards for omics data: sink or swim?. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 200-203.	4.4	52
51	Taxonomy-Based Glyph Designâ€”with a Case Study on Visualizing Workflows of Biological Experiments. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2603-2612.	4.4	51
52	The founding charter of the Genomic Observatories Network. GigaScience, 2014, 3, 2.	6.4	51
53	Survey-based naming conventions for use in OBO Foundry ontology development. BMC Bioinformatics, 2009, 10, 125.	2.6	50
54	OntoMaton: a Bioportal powered ontology widget for Google Spreadsheets. Bioinformatics, 2013, 29, 525-527.	4.1	49

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55	linkedISA: semantic representation of ISA-Tab experimental metadata. BMC Bioinformatics, 2014, 15, S4.	2.6	49
56	A Special Issue on Data Standards. OMICS A Journal of Integrative Biology, 2006, 10, 84-93.	2.0	46
57	The MetaboLights repository: curation challenges in metabolomics. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat029.	3.0	46
58	Toward unrestricted use of public genomic data. Science, 2019, 363, 350-352.	12.6	45
59	Defining best practice for microarray analyses in nutrigenomic studies. British Journal of Nutrition, 2005, 93, 425-432.	2.3	39
60	A Strategy Capitalizing on Synergies: The Reporting Structure for Biological Investigation (RSBI) Working Group. OMICS A Journal of Integrative Biology, 2006, 10, 164-171.	2.0	33
61	Toward a Standards-Compliant Genomic and Metagenomic Publication Record. OMICS A Journal of Integrative Biology, 2008, 12, 157-160.	2.0	33
62	FAIRshake: Toolkit to Evaluate the FAIRness of Research Digital Resources. Cell Systems, 2019, 9, 417-421.	6.2	33
63	Meeting Report from the Second â€œMinimum Information for Biological and Biomedical Investigationsâ€• (MIBBI) workshop. Standards in Genomic Sciences, 2010, 3, 259-266.	1.5	32
64	Towards BioDBcore: a community-defined information specification for biological databases. Nucleic Acids Research, 2011, 39, D7-D10.	14.5	32
65	The international MAQC Society launches to enhance reproducibility of high-throughput technologies. Nature Biotechnology, 2017, 35, 1127-1128.	17.5	32
66	Towards BioDBcore: a community-defined information specification for biological databases. Database: the Journal of Biological Databases and Curation, 2011, 2011, baq027-baq027.	3.0	30
67	The Stem Cell Discovery Engine: an integrated repository and analysis system for cancer stem cell comparisons. Nucleic Acids Research, 2012, 40, D984-D991.	14.5	29
68	COPO: a metadata platform for brokering FAIR data in the life sciences. F1000Research, 0, 9, 495.	1.6	27
69	From Peer-Reviewed to Peer-Reproduced in Scholarly Publishing: The Complementary Roles of Data Models and Workflows in Bioinformatics. PLoS ONE, 2015, 10, e0127612.	2.5	27
70	Microarray Data Standards: An Open Letter. Environmental Health Perspectives, 2004, 112, A666-7.	6.0	23
71	The Risa R/Bioconductor package: integrative data analysis from experimental metadata and back again. BMC Bioinformatics, 2014, 15, S11.	2.6	22
72	Interoperable and scalable data analysis with microservices: applications in metabolomics. Bioinformatics, 2019, 35, 3752-3760.	4.1	22

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73	Standard Annotation of Environmental OMICS Data: Application to the Transcriptomics Domain. OMICS A Journal of Integrative Biology, 2006, 10, 172-178.	2.0	21
74	Empowering industrial research with shared biomedical vocabularies. Drug Discovery Today, 2011, 16, 940-947.	6.4	20
75	Visual Compression of Workflow Visualizations with Automated Detection of Macro Motifs. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2576-2585.	4.4	19
76	Standardizing data. Nature Nanotechnology, 2013, 8, 73-74.	31.5	19
77	ISA API: An open platform for interoperable life science experimental metadata. GigaScience, 2021, 10, .	6.4	19
78	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	19
79	Standardization Initiatives in the (eco)toxicogenomics Domain: A Review. Comparative and Functional Genomics, 2004, 5, 633-641.	2.0	17
80	Publishing descriptions of non-public clinical datasets: proposed guidance for researchers, repositories, editors and funding organisations. Research Integrity and Peer Review, 2016, 1, 6.	5.2	16
81	TeSS: a platform for discovering life-science training opportunities. Bioinformatics, 2020, 36, 3290-3291.	4.1	15
82	Experiment design driven FAIRification of omics data matrices, an exemplar. Scientific Data, 2019, 6, 271.	5.3	14
83	Community standards for open cell migration data. GigaScience, 2020, 9, .	6.4	12
84	On the evolving portfolio of community-standards and data sharing policies: turning challenges into new opportunities. GigaScience, 2012, 1, 10.	6.4	11
85	Fostering global data sharing: highlighting the recommendations of the Research Data Alliance COVID-19 working group. Wellcome Open Research, 2020, 5, 267.	1.8	11
86	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	11
87	FAIR Convergence Matrix: Optimizing the Reuse of Existing FAIR-Related Resources. Data Intelligence, 2020, 2, 158-170.	1.5	10
88	Helping the Consumers and Producers of Standards, Repositories and Policies to Enable FAIR Data. Data Intelligence, 2020, 2, 151-157.	1.5	10
89	Orchestrating and sharing large multimodal data for transparent and reproducible research. Nature Communications, 2021, 12, 5797.	12.8	10
90	Bio-GraphIIn: a graph-based, integrative and semantically-enabled repository for life science experimental data. EMBnet Journal, 2013, 19, 46.	0.6	9

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91	Wrestling with SUMO and bio-ontologies. Nature Biotechnology, 2006, 24, 21-21.	17.5	8
92	The Metadata Coverage Index (MCI): A standardized metric for quantifying database metadata richness. Standards in Genomic Sciences, 2012, 6, 444-453.	1.5	8
93	Semantic concept schema of the linear mixed model of experimental observations. Scientific Data, 2020, 7, 70.	5.3	8
94	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
95	Overcoming the ontology enrichment bottleneck with Quick Term Templates. Applied Ontology, 2011, 6, 13-22.	2.0	7
96	Overcoming the Ontology Enrichment Bottleneck with Quick Term Templates. Nature Precedings, 0, , .	0.1	6
97	High-quality science requires high-quality open data infrastructure. Scientific Data, 2018, 5, 180027.	5.3	6
98	Fostering global data sharing: highlighting the recommendations of the Research Data Alliance COVID-19 working group. Wellcome Open Research, 2020, 5, 267.	1.8	6
99	Modeling a microbial community and biodiversity assay with OBO Foundry ontologies: the interoperability gains of a modular approach. Database: the Journal of Biological Databases and Curation, 2015, 2015, bau132-bau132.	3.0	5
100	Data discovery with DATS: exemplar adoptions and lessons learned. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 13-16.	4.4	5
101	Consent insufficient for data releaseâ€"Response. Science, 2019, 364, 446-446.	12.6	5
102	Barely sufficient practices in scientific computing. Patterns, 2021, 2, 100206.	5.9	5
103	Foreword to the Special Issue on the Fifth Genomic Standards Consortium Workshop. OMICS A Journal of Integrative Biology, 2008, 12, 99-99.	2.0	3
104	Report of the 13th Genomic Standards Consortium Meeting, Shenzhen, China, March 4â€"7, 2012.. Standards in Genomic Sciences, 2012, 6, 276-286.	1.5	3
105	CEDAR. , 2018, , .		3
106	ELIXIR and Toxicology: a community in development. F1000Research, 0, 10, 1129.	1.6	3
107	Meeting Report: â€œMetagenomics, Metadata and Meta-analysisâ€•(M3) Workshop at the Pacific Symposium on Biocomputing 2010. Standards in Genomic Sciences, 2010, 2, 357-360.	1.5	2
108	Investigation-Study-Assay, a toolkit for standardizing data capture and sharing. , 2012, , 173-188.		1

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109	Conceptualizing a Genomics Software Institute (GSI). Standards in Genomic Sciences, 2012, 6, 136-144.	1.5	1
110	FAIRsharing: Data and Metadata Standards and Data Policies for Biomedical Research. , 2021, , 544-546.		1
111	Towards interoperable reporting standards for omics data: hopes and hurdles. Summit on Translational Bioinformatics, 2009, 2009, 112-5.	0.7	1
112	Selected papers from the 15th Annual Bio-Ontologies Special Interest Group Meeting. Journal of Biomedical Semantics, 2013, 4, I1.	1.6	0