

# Dagmar Waltemath

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,818  
citations

430874

18  
h-index

330143

37  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2277  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled vocabularies and semantics in systems biology. <i>Molecular Systems Biology</i> , 2011, 7, 543.	7.2	246
2	Reproducible computational biology experiments with SED-ML - The Simulation Experiment Description Markup Language. <i>BMC Systems Biology</i> , 2011, 5, 198.	3.0	211
3	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020, 16, e9110.	7.2	178
4	Minimum Information About a Simulation Experiment (MIASE). <i>PLoS Computational Biology</i> , 2011, 7, e1001122.	3.2	133
5	COMBINE archive and OMEX format: one file to share all information to reproduce a modeling project. <i>BMC Bioinformatics</i> , 2014, 15, 369.	2.6	114
6	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core Release 2. <i>Journal of Integrative Bioinformatics</i> , 2019, 16, .	1.5	78
7	Promoting Coordinated Development of Community-Based Information Standards for Modeling in Biology: The COMBINE Initiative. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 19.	4.1	72
8	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core. <i>Journal of Integrative Bioinformatics</i> , 2018, 15, .	1.5	57
9	Harmonizing semantic annotations for computational models in biology. <i>Briefings in Bioinformatics</i> , 2019, 20, 540-550.	6.5	52
10	Toward Community Standards and Software for Whole-Cell Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2007-2014.	4.2	51
11	How Modeling Standards, Software, and Initiatives Support Reproducibility in Systems Biology and Systems Medicine. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1999-2006.	4.2	43
12	Combining computational models, semantic annotations and simulation experiments in a graph database. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, .	3.0	42
13	A call for virtual experiments: Accelerating the scientific process. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 99-106.	2.9	31
14	The JWS online simulation database. <i>Bioinformatics</i> , 2017, 33, 1589-1590.	4.1	28
15	Simulation Experiment Description Markup Language (SED-ML) Level 1 Version 3 (L1V3). <i>Journal of Integrative Bioinformatics</i> , 2018, 15, .	1.5	27
16	Initiatives, Concepts, and Implementation Practices of FAIR (Findable, Accessible, Interoperable, and) Research Protocols, 2021, 10, e22505.	1.0	25
17	Ranked retrieval of Computational Biology models. <i>BMC Bioinformatics</i> , 2010, 11, 423.	2.6	24
18	An algorithm to detect and communicate the differences in computational models describing biological systems. <i>Bioinformatics</i> , 2016, 32, 563-570.	4.1	23

#	ARTICLE	IF	CITATIONS
19	Improving the reuse of computational models through version control. <i>Bioinformatics</i> , 2013, 29, 742-748.	4.1	21
20	Meeting report from the fourth meeting of the Computational Modeling in Biology Network (COMBINE). <i>Standards in Genomic Sciences</i> , 2014, 9, 1285-1301.	1.5	21
21	STON: exploring biological pathways using the SBGN standard and graph databases. <i>BMC Bioinformatics</i> , 2016, 17, 494.	2.6	19
22	The first 10 years of the international coordination network for standards in systems and synthetic biology (COMBINE). <i>Journal of Integrative Bioinformatics</i> , 2020, 17, .	1.5	18
23	Notions of similarity for systems biology models. <i>Briefings in Bioinformatics</i> , 2018, 19, bbw090.	6.5	17
24	COMODI: an ontology to characterise differences in versions of computational models in biology. <i>Journal of Biomedical Semantics</i> , 2016, 7, 46.	1.6	15
25	Approaches and Criteria for Provenance in Biomedical Data Sets and Workflows: Protocol for a Scoping Review. <i>JMIR Research Protocols</i> , 2021, 10, e31750.	1.0	15
26	Specifications of Standards in Systems and Synthetic Biology. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 258.	1.5	14
27	Annotation-based feature extraction from sets of SBML models. <i>Journal of Biomedical Semantics</i> , 2015, 6, 20.	1.6	13
28	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 1 Core. <i>Journal of Integrative Bioinformatics</i> , 2018, 15, .	1.5	13
29	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2016. <i>Journal of Integrative Bioinformatics</i> , 2016, 13, 1-7.	1.5	12
30	Specifications of Standards in Systems and Synthetic Biology. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 1-3.	1.5	11
31	Simulation Experiment Description Markup Language (SED-ML) Level 1 Version 2. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 119-212.	1.5	10
32	A fully featured COMBINE archive of a simulation study on syncytial mitotic cycles in <i>Drosophila</i> embryos. <i>F1000Research</i> , 2016, 5, 2421.	1.6	10
33	Specifications of standards in systems and synthetic biology: status and developments in 2020. <i>Journal of Integrative Bioinformatics</i> , 2020, 17, .	1.5	10
34	Addressing <i>barriers in comprehensiveness, accessibility, reusability, interoperability and reproducibility of computational models in systems biology</i>. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	10
35	Towards standardization guidelines for <i>in silico</i> approaches in personalized medicine. <i>Journal of Integrative Bioinformatics</i> , 2020, 17, .	1.5	9
36	Open modeling and exchange (OMEX) metadata specification version 1.0. <i>Journal of Integrative Bioinformatics</i> , 2020, 17, .	1.5	9

#	ARTICLE	IF	CITATIONS
37	Identifying frequent patterns in biochemical reaction networks: a workflow. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	3.0	8
38	OMEX metadata specification (version 1.2). Journal of Integrative Bioinformatics, 2021, 18, .	1.5	8
39	The simulation experiment description markup language (SED-ML): language specification for level 1 version 4. Journal of Integrative Bioinformatics, 2021, 18, 20210021.	1.5	8
40	Systems Biology Markup Language (SBML) Level 2 Version 5: Structures and Facilities for Model Definitions. Journal of Integrative Bioinformatics, 2015, 12, 731-901.	1.5	7
41	SED-ML web tools: generate, modify and export standard-compliant simulation studies. Bioinformatics, 2017, 33, 1253-1254.	4.1	7
42	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2017. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	7
43	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2019. Journal of Integrative Bioinformatics, 2019, 16, .	1.5	7
44	Reproducibility of Model-Based Results in Systems Biology. , 2013, , 301-320.		7
45	Simulation Experiment Description Markup Language (SED-ML) : Level 1 Version 1. Nature Precedings, 2011, , .	0.1	6
46	A brief history of COMBINE. , 2017, , .		6
47	Quick tips for creating effective and impactful biological pathways using the Systems Biology Graphical Notation. PLoS Computational Biology, 2018, 14, e1005740.	3.2	6
48	Information Retrieval in Life Sciences: A Programmatic Survey. , 2014, , 73-109.		6
49	Overview: Standards for Modeling in Systems Medicine. , 2021, , 345-353.		4
50	SBGN Bricks Ontology as a tool to describe recurring concepts in molecular networks. Briefings in Bioinformatics, 2021, 22, .	6.5	4
51	Opportunities of Digital Infrastructures for Disease Management—Exemplified on COVID-19-Related Change in Diagnosis Counts for Diabetes-Related Eye Diseases. Nutrients, 2022, 14, 2016.	4.1	4
52	Evolution of computational models in BioModels Database and the Physiome Model Repository. BMC Systems Biology, 2018, 12, 53.	3.0	3
53	Facilitating Study and Item Level Browsing for Clinical and Epidemiological COVID-19 Studies. Studies in Health Technology and Informatics, 2021, 281, 794-798.	0.3	3
54	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

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55	Specifications of standards in systems and synthetic biology: status and developments in 2021. Journal of Integrative Bioinformatics, 2021, 18, .	1.5	2
56	SBML Level 3 Package Proposal: Annotation. Nature Precedings, 2011, , .	0.1	1
57	SBML Level 3 Package Proposal: Annotation. Nature Precedings, 0, , .	0.1	1
58	Annotation-Based Feature Extraction from Sets of SBML Models. Lecture Notes in Computer Science, 2014, , 81-95.	1.3	1
59	Exploring the evolution of biochemical models at the network level. PLoS ONE, 2022, 17, e0265735.	2.5	0