John H Gennari

List of Publications by Year
in descending order

53	2,431	361296	243529
papers	citations	20 h-index	44 g-index

55	55	55	2360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The evolution of ProtÃ©gÃ©: an environment for knowledge-based systems development. International Journal of Human Computer Studies, 2003, 58, 89-123.	3.7	765
2	The Synthetic Biology Open Language (SBOL) provides a community standard for communicating designs in synthetic biology. Nature Biotechnology, 2014, 32, 545-550.	9.4	247
3	Incorporating ideas from computer-supported cooperative work. Journal of Biomedical Informatics, 2004, 37, 128-137.	2.5	145
4	Ontology-based configuration of problem-solving methods and generation of knowledge-acquisition tools: application of PROTÃ‰GÃ‰-II to protocol-based decision support. Artificial Intelligence in Medicine, 1995, 7, 257-289.	3.8	103
5	Evaluating Clinical Decision Support Systems: Monitoring CPOE Order Check Override Rates in the Department of Veterans Affairs' Computerized Patient Record System. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 620-626.	2.2	99
6	Sharing Structure and Function in Biological Design with SBOL 2.0. ACS Synthetic Biology, 2016, 5, 498-506.	1.9	88
7	Standard Biological Parts Knowledgebase. PLoS ONE, 2011, 6, e17005.	1.1	80
8	Mapping domains to methods in support of reuse. International Journal of Human Computer Studies, 1994, 41, 399-424.	3.7	71
9	Multiple ontologies in action: Composite annotations for biosimulation models. Journal of Biomedical Informatics, 2011, 44, 146-154.	2.5	55
10	Harmonizing semantic annotations for computational models in biology. Briefings in Bioinformatics, 2019, 20, 540-550.	3.2	52
11	A Reappraisal of How to Build Modular, Reusable Models of Biological Systems. PLoS Computational Biology, 2014, 10, e1003849.	1.5	47
12	Bayesian network models for error detection in radiotherapy plans. Physics in Medicine and Biology, 2015, 60, 2735-2749.	1.6	46
13	Integrating systems biology models and biomedical ontologies. BMC Systems Biology, 2011, 5, 124.	3.0	44
14	Asynchronous collaborative writing through annotations. , 2004, , .		39
15	User-centered semantic harmonization: A case study. Journal of Biomedical Informatics, 2007, 40, 353-364.	2.5	35
16	Using random walks to identify cancer-associated modules in expression data. BioData Mining, 2013, 6, 17.	2.2	32
17	Physical Properties of Biological Entities: An Introduction to the Ontology of Physics for Biology. PLoS ONE, 2011, 6, e28708.	1.1	30
18	Participatory design of a collaborative clinical trial protocol writing system. International Journal of Medical Informatics, 2007, 76, S245-S251.	1.6	29

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19	Semantics-Based Composition of Integrated Cardiomyocyte Models Motivated by Real-World Use Cases. PLoS ONE, 2015, 10, e0145621.	1.1	29
20	Ontology of physics for biology: representing physical dependencies as a basis for biological processes. Journal of Biomedical Semantics, 2013, 4, 41.	0.9	26
21	Model annotation and discovery with the Physiome Model Repository. BMC Bioinformatics, 2019, 20, 457.	1.2	26
22	Asynchronous communication among clinical researchers: A study for systems design. International Journal of Medical Informatics, 2005, 74, 797-807.	1.6	24
23	SemGen: a tool for semantics-based annotation and composition of biosimulation models. Bioinformatics, 2019, 35, 1600-1602.	1.8	24
24	Synthetic Biology Open Language (SBOL) Version 2.0.0. Journal of Integrative Bioinformatics, 2015, 12, 902-991.	1.0	22
25	Synthetic Biology Open Language (SBOL) Version 2.0.0. Journal of Integrative Bioinformatics, 2015, 12, 272.	1.0	21
26	Beyond Data Models for Automated User Interface Generation. , 0, , 353-366.		20
27	Synthetic Biology Open Language (SBOL) Version 2.2.0. Journal of Integrative Bioinformatics, 2018, 15, .	1.0	20
28	Developing Bayesian networks from a dependencyâ€layered ontology: A proofâ€ofâ€concept in radiation oncology. Medical Physics, 2017, 44, 4350-4359.	1.6	17
29	Synthetic Biology Open Language (SBOL) Version 2.3. Journal of Integrative Bioinformatics, 2019, 16, .	1.0	16
30	Integration of multi-scale biosimulation models via light-weight semantics. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2008, , 414-25.	0.7	15
31	Reuse, CORBA, and knowledge-based systems. International Journal of Human Computer Studies, 1998, 49, 523-546.	3.7	14
32	Advances in semantic representation for multiscale biosimulation: a case study in merging models. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2009, , 304-15.	0.7	14
33	SBOL-OWL: An Ontological Approach for Formal and Semantic Representation of Synthetic Biology Information. ACS Synthetic Biology, 2019, 8, 1498-1514.	1.9	12
34	Reuse with PROTÃ‰GÃ -II. , 1995, , .		11
35	Synthetic Biology Open Language (SBOL) Version 2.1.0. Journal of Integrative Bioinformatics, 2016, 13, .	1.0	11
36	BioSimulators: a central registry of simulation engines and services for recommending specific tools. Nucleic Acids Research, 2022, 50, W108-W114.	6.5	11

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37	libOmexMeta: enabling semantic annotation of models to support FAIR principles. Bioinformatics, 2021, 37, 4898-4900.	1.8	9
38	Open modeling and exchange (OMEX) metadata specification version 1.0. Journal of Integrative Bioinformatics, 2020, 17, .	1.0	9
39	OMEX metadata specification (version 1.2). Journal of Integrative Bioinformatics, 2021, 18, .	1.0	8
40	Bridging biological ontologies and biosimulation: the ontology of physics for biology. AMIA ... Annual Symposium proceedings, 2008, , 136-40.	0.2	8
41	The multiple views of inter-organizational authoring. , 2004, , .		7
42	Composite annotations: Requirements for mapping multiscale data and models to biomedical ontologies. , 2009, 2009, 2791-4.		7
43	Representing physiological processes and their participants with PhysioMaps. Journal of Biomedical Semantics, 2013, 4, S2.	0.9	7
44	Synthetic Biology Open Language (SBOL) Version 2.1.0. Journal of Integrative Bioinformatics, 2016, 13, 291.	1.0	6
45	Chalkboard: ontology-based pathway modeling and qualitative inference of disease mechanisms. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2007, , 16-27.	0.7	6
46	NLIMED: Natural Language Interface for Model Entity Discovery in Biosimulation Model Repositories. Frontiers in Physiology, 2022, 13, 820683.	1.3	5
47	Knowledge transformations between frame systems and RDB systems. , 2005, , .		4
48	Practical resources for enhancing the reproducibility of mechanistic modeling in systems biology. Current Opinion in Systems Biology, 2021, 27, 100350.	1.3	3
49	INTEGRATING GENOMIC KNOWLEDGE SOURCES THROUGH AN ANATOMY ONTOLOGY. , 2004, , .		3
50	Qualitative causal analyses of biosimulation models. CEUR Workshop Proceedings, 2016, 1747, .	2.3	3
51	Reuse with PROTÃ‰GÃ -II. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1995, 20, 72-80.	0.5	1
52	Predicting instances of pathway ontology classes for pathway integration. Journal of Biomedical Semantics, 2019, 10, 11.	0.9	1
53	Investigating Hypotheses through Discovery of Relevant Models of Epithelial Transport. FASEB Journal, 2018, 32, 620.1.	0.2	0