

Olivier Bodenreider

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,921
citations

304743

22
h-index

106344

65
g-index

100
all docs

100
docs citations

100
times ranked

5218
citing authors

#	ARTICLE	IF	CITATIONS
1	The Unified Medical Language System (UMLS): integrating biomedical terminology. <i>Nucleic Acids Research</i> , 2004, 32, 267D-270.	14.5	2,858
2	Bio-ontologies: current trends and future directions. <i>Briefings in Bioinformatics</i> , 2006, 7, 256-274.	6.5	315
3	Exploring semantic groups through visual approaches. <i>Journal of Biomedical Informatics</i> , 2003, 36, 414-432.	4.3	133
4	Gene expression correlation and gene ontology-based similarity: an assessment of quantitative relationships. , 2004, 2004, 25-31.		98
5	The foundational model of anatomy in OWL: Experience and perspectives. <i>Web Semantics</i> , 2006, 4, 181-195.	2.9	87
6	Investigating subsumption in SNOMED CT: An exploration into large description logic-based biomedical terminologies. <i>Artificial Intelligence in Medicine</i> , 2007, 39, 183-195.	6.5	76
7	Don't like RDF reification?. , 2014, 2014, 759-770.		75
8	Context-driven automatic subgraph creation for literature-based discovery. <i>Journal of Biomedical Informatics</i> , 2015, 54, 141-157.	4.3	58
9	Comparison of three commercial knowledge bases for detection of drug-drug interactions in clinical decision support. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017, 24, 806-812.	4.4	50
10	Preparing for the ICD-10-CM Transition: Automated Methods for Translating ICD Codes in Clinical Phenotype Definitions. <i>EGEMS (Washington, DC)</i> , 2017, 4, 4.	2.0	48
11	Mining non-lattice subgraphs for detecting missing hierarchical relations and concepts in SNOMED CT. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017, 24, 788-798.	4.4	44
12	NON-LEXICAL APPROACHES TO IDENTIFYING ASSOCIATIVE RELATIONS IN THE GENE ONTOLOGY. , 2004, , .		44
13	Periosteum and bone marrow in bone lengthening: A DEXA quantitative evaluation in rabbits. <i>Acta Orthopaedica</i> , 1998, 69, 527-531.	1.4	42
14	The new International Classification of Diseases 11th edition: a comparative analysis with ICD-10 and ICD-10-CM. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 738-746.	4.4	42
15	The digital revolution in phenotyping. <i>Briefings in Bioinformatics</i> , 2016, 17, 819-830.	6.5	41
16	Interoperability between phenotypes in research and healthcare terminologies – Investigating partial mappings between HPO and SNOMED CT. <i>Journal of Biomedical Semantics</i> , 2016, 7, 3.	1.6	39
17	A time-indexed reference standard of adverse drug reactions. <i>Scientific Data</i> , 2014, 1, 140043.	5.3	33
18	Non-lexical approaches to identifying associative relations in the gene ontology. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2005, , 91-102.	0.7	31

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19	Law and order: Assessing and enforcing compliance with ontological modeling principles in the Foundational Model of Anatomy. <i>Computers in Biology and Medicine</i> , 2006, 36, 674-693.	7.0	29
20	Large-scale, Exhaustive Lattice-based Structural Auditing of SNOMED CT. <i>AMIA ... Annual Symposium proceedings</i> , 2010, 2010, 922-6.	0.2	29
21	The NLM value set authority center. <i>Studies in Health Technology and Informatics</i> , 2013, 192, 1224.	0.3	29
22	Toward multimodal signal detection of adverse drug reactions. <i>Journal of Biomedical Informatics</i> , 2017, 76, 41-49.	4.3	28
23	Incorporating ontology-driven similarity knowledge into functional genomics: an exploratory study. , 2004, 2004, 317-324.		27
24	Assessing the consistency of a biomedical terminology through lexical knowledge. <i>International Journal of Medical Informatics</i> , 2002, 67, 85-95.	3.3	26
25	Extracting Rx information from clinical narrative. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2010, 17, 536-539.	4.4	26
26	Auditing SNOMED CT hierarchical relations based on lexical features of concepts in non-lattice subgraphs. <i>Journal of Biomedical Informatics</i> , 2018, 78, 177-184.	4.3	26
27	Of mice and men: aligning mouse and human anatomies. <i>AMIA ... Annual Symposium proceedings</i> , 2005, , 61-5.	0.2	24
28	Ontology Summit 2007 â€“ Ontology, taxonomy, folksonomy: Understanding the distinctions. <i>Applied Ontology</i> , 2008, 3, 191-200.	2.0	23
29	From Concept Representations to Ontologies: A Paradigm Shift in Health Informatics?. <i>Healthcare Informatics Research</i> , 2013, 19, 235.	1.9	23
30	Evaluation of the UMLS as a terminology and knowledge resource for biomedical informatics. <i>Proceedings</i> , 2002, , 61-5.	0.6	23
31	The national library of medicine pill image recognition challenge: An initial report. , 2016, 2016, ,		22
32	Provenance Context Entity (PaCE): Scalable Provenance Tracking for Scientific RDF Data. <i>Lecture Notes in Computer Science</i> , 2010, 6187, 461-470.	1.3	21
33	Leveraging MEDLINE indexing for pharmacovigilance â€“ Inherent limitations and mitigation strategies. <i>Journal of Biomedical Informatics</i> , 2015, 57, 425-435.	4.3	20
34	Predictive Integration of Gene Ontology-Driven Similarity and Functional Interactions. , 2006, 2006, 114-119.		19
35	The biological function of some human transcription factor binding motifs varies with position relative to the transcription start site. <i>Nucleic Acids Research</i> , 2008, 36, 2777-2786.	14.5	19
36	The Ontology-Epistemology Divide: A Case Study in Medical Terminology. , 2004, 2004, 185-195.		19

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37	MaPLE: A MapReduce Pipeline for Lattice-based Evaluation and its application to SNOMED CT. , 2014, 2014, 754-759.		18
38	Evaluating drug-drug interaction information in NDF-RT and DrugBank. Journal of Biomedical Semantics, 2015, 6, 19.	1.6	18
39	Using SPARQL to Test for Lattices: Application to Quality Assurance in Biomedical Ontologies. Lecture Notes in Computer Science, 2010, 6497, 273-288.	1.3	18
40	Using the abstraction network in complement to description logics for quality assurance in biomedical terminologies - a case study in SNOMED CT. Studies in Health Technology and Informatics, 2010, 160, 1070-4.	0.3	18
41	Strength in numbers: exploring redundancy in hierarchical relations across biomedical terminologies. AMIA ... Annual Symposium proceedings, 2003, , 101-5.	0.2	17
42	Co-Evolutionary Rates of Functionally Related Yeast Genes. Evolutionary Bioinformatics, 2006, 2, 117693430600200.	1.2	14
43	Comparing two approaches for aligning representations of anatomy. Artificial Intelligence in Medicine, 2007, 39, 227-236.	6.5	14
44	Aligning knowledge sources in the UMLS: methods, quantitative results, and applications. Studies in Health Technology and Informatics, 2004, 107, 327-31.	0.3	14
45	Using SNOMED CT in combination with MedDRA for reporting signal detection and adverse drug reactions reporting. AMIA ... Annual Symposium proceedings, 2009, 2009, 45-9.	0.2	13
46	Issues in mapping LOINC laboratory tests to SNOMED CT. AMIA ... Annual Symposium proceedings, 2008, , 51-5.	0.2	12
47	EXPERIENCE IN REASONING WITH THE FOUNDATIONAL MODEL OF ANATOMY IN OWL DL. , 2005, , .		11
48	A framework for assessing the consistency of drug classes across sources. Journal of Biomedical Semantics, 2014, 5, 30.	1.6	11
49	Feasibility of replacing the ICD-10-CM with the ICD-11 for morbidity coding: A content analysis. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2404-2411.	4.4	11
50	Metrics for assessing the quality of value sets in clinical quality measures. AMIA ... Annual Symposium proceedings, 2013, 2013, 1497-505.	0.2	11
51	Comparing the representation of anatomy in the FMA and SNOMED CT. AMIA ... Annual Symposium proceedings, 2006, , 46-50.	0.2	10
52	A graph-based approach to auditing RxNorm. Journal of Biomedical Informatics, 2009, 42, 558-570.	4.3	9
53	Ontologies and terminologies: Continuum or dichotomy?. Applied Ontology, 2012, 7, 375-386.	2.0	9
54	Exploring adverse drug events at the class level. Journal of Biomedical Semantics, 2015, 6, 18.	1.6	9

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55	Biomedical Vocabulary Alignment at Scale in the UMLS Metathesaurus. , 2021, 2021, 2672-2683.		9
56	Analyzing U.S. prescription lists with RxNorm and the ATC/DDD Index. AMIA ... Annual Symposium proceedings, 2014, 2014, 297-306.	0.2	8
57	Issues in the classification of disease instances with ontologies. Studies in Health Technology and Informatics, 2005, 116, 695-700.	0.3	7
58	Evaluation of WordNet as a source of lay knowledge for molecular biology and genetic diseases: a feasibility study. Studies in Health Technology and Informatics, 2003, 95, 379-84.	0.3	7
59	Combining relevance assignment with quality of the evidence to support guideline development. Studies in Health Technology and Informatics, 2010, 160, 709-13.	0.3	7
60	Comparing and evaluating terminology services application programming interfaces: RxNav, UMLS SKS and LexBIG. Journal of the American Medical Informatics Association: JAMIA, 2010, 17, 714-719.	4.4	6
61	Assessing the enrichment of dietary supplement coverage in the Unified Medical Language System. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1547-1555.	4.4	6
62	Leveraging terminological resources for mapping between rare disease information sources. Studies in Health Technology and Informatics, 2013, 192, 529-33.	0.3	6
63	Comparing associative relationships among equivalent concepts across ontologies. Studies in Health Technology and Informatics, 2004, 107, 459-66.	0.3	6
64	Coverage of rare disease names in standard terminologies and implications for patients, providers, and research. AMIA ... Annual Symposium proceedings, 2014, 2014, 564-72.	0.2	6
65	Mining Relation Reversals in the Evolution of SNOMED CT Using MapReduce. AMIA Summits on Translational Science Proceedings, 2015, 2015, 46-50.	0.4	6
66	Mining association rules among gene functions in clusters of similar gene expression maps. , 2009, 2009, 254-259.		5
67	Exploiting UMLS semantics for checking semantic consistency among UMLS concepts. Studies in Health Technology and Informatics, 2010, 160, 749-53.	0.3	5
68	A framework for comparing phenotype annotations of orthologous genes. Studies in Health Technology and Informatics, 2010, 160, 1309-13.	0.3	4
69	Enabling complex queries to drug information sources through functional composition. Studies in Health Technology and Informatics, 2013, 192, 692-6.	0.3	4
70	Extending the coverage of phenotypes in SNOMED CT through post-coordination. Studies in Health Technology and Informatics, 2015, 216, 795-9.	0.3	4
71	Interoperability of Disease Concepts in Clinical and Research Ontologies: Contrasting Coverage and Structure in the Disease Ontology and SNOMED CT. Studies in Health Technology and Informatics, 2017, 245, 925-929.	0.3	4
72	Using description logics to evaluate the consistency of drug-class membership relations in NDF-RT. Journal of Biomedical Semantics, 2015, 6, 13.	1.6	3

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73	Investigating drug classes in biomedical terminologies from the perspective of clinical decision support. AMIA ... Annual Symposium proceedings, 2010, 2010, 56-60.	0.2	3
74	Exploring pharmacoepidemiologic groupings of drugs from a clinical perspective. Studies in Health Technology and Informatics, 2013, 192, 827-31.	0.3	3
75	Approaches to Supporting the Analysis of Historical Medication Datasets with RxNorm. AMIA ... Annual Symposium proceedings, 2015, 2015, 1034-41.	0.2	3
76	Interoperability of Medication Classification Systems: Lessons Learned Mapping Established Pharmacologic Classes (EPCs) to SNOMED CT. Studies in Health Technology and Informatics, 2017, 245, 920-924.	0.3	3
77	Sequential Mapping – A Novel Approach to Map from ICD-10-CM to ICD-11. Studies in Health Technology and Informatics, 2022, , .	0.3	3
78	Towards Desiderata for an Ontology of Diseases for the Annotation of Biological Datasets. Nature Precedings, 2009, , .	0.1	2
79	Towards Desiderata for an Ontology of Diseases for the Annotation of Biological Datasets. Nature Precedings, 0, , .	0.1	2
80	Desiderata for an authoritative Representation of MeSH in RDF. AMIA ... Annual Symposium proceedings, 2014, 2014, 1218-27.	0.2	2
81	MetaMap Lite in Excel: Biomedical Named-Entity Recognition for Non-Technical Users. Studies in Health Technology and Informatics, 2017, 245, 1252.	0.3	2
82	Adding an Attention Layer Improves the Performance of a Neural Network Architecture for Synonymy Prediction in the UMLS Metathesaurus. Studies in Health Technology and Informatics, 2022, , .	0.3	2
83	Guest-editorial. Applied Ontology, 2008, 3, 201-203.	2.0	1
84	Siamese KG-LSTM: A deep learning model for enriching UMLS Metathesaurus synonymy. , 2020, , .		1
85	Graphical visualization and navigation of genetic disease information. AMIA ... Annual Symposium proceedings, 2003, , 792.	0.2	1
86	The Drug Data to Knowledge Pipeline: Large-Scale Claims Data Classification for Pharmacologic Insight. AMIA Summits on Translational Science Proceedings, 2016, 2016, 105-11.	0.4	1
87	Eliciting the Intension of Drug Value Sets - Principles and Quality Assurance Applications. Studies in Health Technology and Informatics, 2017, 245, 843-847.	0.3	1
88	Trends in Fetal Medicine: A 10-Year Bibliometric Analysis of Prenatal Diagnosis. Studies in Health Technology and Informatics, 2017, 245, 853-857.	0.3	1
89	Normalizing Dietary Supplement Product Names Using the RxNorm Model. Studies in Health Technology and Informatics, 2019, 264, 408-412.	0.3	1
90	Ontological research and its applications to the biomedical domain. Proceedings of the American Society for Information Science and Technology, 2006, 42, n/a-n/a.	0.2	0

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91	Desiderata for an ontology of diseases for the annotation of biological datasets.. Nature Precedings, 2009, , .	0.1	0
92	Creating a Translational Medicine Ontology. Nature Precedings, 2009, , .	0.1	0
93	Session Introduction. , 2002, , .		0
94	Medical concept representation: the years beyond 2000. Studies in Health Technology and Informatics, 2013, 192, 1011.	0.3	0
95	"Hybrid Topics" - Facilitating the Interpretation of Topics Through the Addition of MeSH Descriptors to Bags of Words. Studies in Health Technology and Informatics, 2017, 245, 662-666.	0.3	0
96	Terminology Status APIs - Mapping Obsolete Codes to Current RxNorm, SNOMED CT, and LOINC Concepts. Studies in Health Technology and Informatics, 2017, 245, 1333.	0.3	0
97	Fingerprinting Biomedical Terminologies--Automatic Classification and Visualization of Biomedical Vocabularies through UMLS Semantic Group Profiles. Studies in Health Technology and Informatics, 2015, 216, 771-5.	0.3	0
98	Automatic Identification of Individual Drugs in Death Certificates. Studies in Health Technology and Informatics, 2019, 264, 183-187.	0.3	0
99	Context-Enriched Learning Models for Aligning Biomedical Vocabularies at Scale in the UMLS Metathesaurus. , 2022, , .		0