William R Hogan

List of Publications by Year
in descending order

89 papers	2,140 citations	304743 22 h-index	276875 41 g-index
92 all docs	92 docs citations	92 times ranked	2357 citing authors

#	Article	IF	Citations
1	MySurgeryRisk: Development and Validation of a Machine-learning Risk Algorithm for Major Complications and Death After Surgery. Annals of Surgery, 2019, 269, 652-662.	4.2	197
2	Algorithms for rapid outbreak detection: a research synthesis. Journal of Biomedical Informatics, 2005, 38, 99-113.	4.3	181
3	Natural Language Processing methods and systems for biomedical ontology learning. Journal of Biomedical Informatics, 2011, 44, 163-179.	4.3	124
4	The Accuracy of Medication Data in an Outpatient Electronic Medical Record. Journal of the American Medical Informatics Association: JAMIA, 1996, 3, 234-244.	4.4	110
5	Extracting social determinants of health from electronic health records using natural language processing: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2716-2727.	4.4	84
6	OneFlorida Clinical Research Consortium: Linking a Clinical and Translational Science Institute With a Community-Based Distributive Medical Education Model. Academic Medicine, 2018, 93, 451-455.	1.6	77
7	Clinical concept extraction using transformers. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1935-1942.	4.4	71
8	Detection of Pediatric Respiratory and Diarrheal Outbreaks from Sales of Over-the-counter Electrolyte Products. Journal of the American Medical Informatics Association: JAMIA, 2003, 10, 555-562.	4.4	68
9	Design of a National Retail Data Monitor for Public Health Surveillance. Journal of the American Medical Informatics Association: JAMIA, 2003, 10, 409-418.	4.4	63
10	Building a drug ontology based on RxNorm and other sources. Journal of Biomedical Semantics, 2013, 4, 44.	1.6	60
11	Clinical Trial Generalizability Assessment in the Big Data Era: A Review. Clinical and Translational Science, 2020, 13, 675-684.	3.1	58
12	Prevalence of Multiple Chronic Conditions Among Older Adults in Florida and the United States: Comparative Analysis of the OneFlorida Data Trust and National Inpatient Sample. Journal of Medical Internet Research, 2018, 20, e137.	4.3	50
13	Social network analysis of biomedical research collaboration networks in a CTSA institution. Journal of Biomedical Informatics, 2014, 52, 130-140.	4.3	47
14	A study of deep learning methods for de-identification of clinical notes in cross-institute settings. BMC Medical Informatics and Decision Making, 2019, 19, 232.	3.0	47
15	Identifying relations of medications with adverse drug events using recurrent convolutional neural networks and gradient boosting. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 65-72.	4.4	46
16	Assessing the practice of data quality evaluation in a national clinical data research network through a systematic scoping review in the era of real-world data. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1999-2010.	4.4	39
17	International Classification of Diseases, Tenth Revision, Clinical Modification social determinants of health codes are poorly used in electronic health records. Medicine (United States), 2020, 99, e23818.	1.0	39
18	Measuring the effect of commuting on the performance of the Bayesian Aerosol Release Detector. BMC Medical Informatics and Decision Making, 2009, 9, S7.	3.0	38

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19	Applications of artificial intelligence in drug development using real-world data. Drug Discovery Today, 2021, 26, 1256-1264.	6.4	36
20	MADEx: A System for Detecting Medications, Adverse Drug Events, and Their Relations from Clinical Notes. Drug Safety, 2019, 42, 123-133.	3.2	35
21	The Bayesian aerosol release detector: An algorithm for detecting and characterizing outbreaks caused by an atmospheric release of <i>Bacillus anthracis</i>. Statistics in Medicine, 2007, 26, 5225-5252.	1.6	31
22	Evidence of community structure in Biomedical Research Grant Collaborations. Journal of Biomedical Informatics, 2013, 46, 40-46.	4.3	29
23	Ideal algorithms in healthcare: Explainable, dynamic, precise, autonomous, fair, and reproducible. , 2022, 1, e0000006.		29
24	Implementing a hash-based privacy-preserving record linkage tool in the OneFlorida clinical research network. JAMIA Open, 2019, 2, 562-569.	2.0	25
25	The OneFlorida Data Trust: a centralized, translational research data infrastructure of statewide scope. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 686-693.	4.4	24
26	OC-2-KB: integrating crowdsourcing into an obesity and cancer knowledge base curation system. BMC Medical Informatics and Decision Making, 2018, 18, 55.	3.0	22
27	An external exposome-wide association study of COVID-19 mortality in the United States. Science of the Total Environment, 2021, 768, 144832.	8.0	21
28	Predicting in-hospital mortality of patients with febrile neutropenia using machine learning models. International Journal of Medical Informatics, 2020, 139, 104140.	3.3	20
29	Acute and Chronic Acetaminophen Use and Renal Disease: A Case-Control Study Using Pharmacy and Medical Claims. Journal of Managed Care Pharmacy, 2012, 18, 234-246.	2.2	19
30	Developing a semantically rich ontology for the biobank-administration domain. Journal of Biomedical Semantics, 2013, 4, 23.	1.6	19
31	EPO-KB: a <i>searchable</i> knowledge base of biomarker to protein links. Bioinformatics, 2008, 24, 1418-1419.	4.1	18
32	The ontology of medically related social entities: recent developments. Journal of Biomedical Semantics, 2016, 7, 47.	1.6	18
33	Exploring the feasibility of using real-world data from a large clinical data research network to simulate clinical trials of Alzheimerâ€™s disease. Npj Digital Medicine, 2021, 4, 84.	10.9	18
34	Towards a privacy preserving cohort discovery framework for clinical research networks. Journal of Biomedical Informatics, 2017, 66, 42-51.	4.3	16
35	Towards an obesity-cancer knowledge base: Biomedical entity identification and relation detection. , 2016, 2016, 1081-1088.		14
36	Therapeutic indications and other use-case-driven updates in the drug ontology: anti-malarials, anti-hypertensives, opioid analgesics, and a large term request. Journal of Biomedical Semantics, 2017, 8, 10.	1.6	14

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37	The Building Blocks of Inter-operability. Applied Clinical Informatics, 2017, 08, 322-336.	1.7	14
38	Antihypertensive therapy prescribing patterns and correlates of blood pressure control among hypertensive patients with chronic kidney disease. Journal of Clinical Hypertension, 2019, 21, 91-101.	2.0	14
39	Unsupervised clustering of over-the-counter healthcare products into product categories. Journal of Biomedical Informatics, 2007, 40, 642-648.	4.3	13
40	Prescription-Acquired Acetaminophen Use and the Risk of Asthma in Adults: A Case-Control Study. Annals of Pharmacotherapy, 2012, 46, 1598-1608.	1.9	13
41	The Apollo Structured Vocabulary: an OWL2 ontology of phenomena in infectious disease epidemiology and population biology for use in epidemic simulation. Journal of Biomedical Semantics, 2016, 7, 50.	1.6	13
42	Combine Factual Medical Knowledge and Distributed Word Representation to Improve Clinical Named Entity Recognition. AMIA ... Annual Symposium proceedings, 2018, 2018, 1110-1117.	0.2	13
43	Optimizing identification of resistant hypertension: Computable phenotype development and validation. Pharmacoepidemiology and Drug Safety, 2020, 29, 1393-1401.	1.9	12
44	Semantic standards of external exposome data. Environmental Research, 2021, 197, 111185.	7.5	12
45	Optimizing Antihypertensive Medication Classification in Electronic Health Record-Based Data: Classification System Development and Methodological Comparison. JMIR Medical Informatics, 2020, 8, e14777.	2.6	12
46	Towards a Consistent and Scientifically Accurate Drug Ontology. CEUR Workshop Proceedings, 2013, 1060, 68-73.	2.3	12
47	A Checklist for Reproducible Computational Analysis in Clinical Metabolomics Research. Metabolites, 2022, 12, 87.	2.9	12
48	CollaborationViz: Interactive Visual Exploration of Biomedical Research Collaboration Networks. PLoS ONE, 2014, 9, e111928.	2.5	11
49	Detection of outbreaks from time series data using wavelet transform. AMIA ... Annual Symposium proceedings, 2003, , 748-52.	0.2	11
50	CLARA: an integrated clinical research administration system. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, e369-e373.	4.4	10
51	Sustainability considerations for clinical and translational research informatics infrastructure. Journal of Clinical and Translational Science, 2018, 2, 267-275.	0.6	10
52	Assessing the comorbidity gap between clinical studies and prevalence in elderly patient populations. , 2016, 2016, 136-139.		9
53	Computable Eligibility Criteria through Ontology-driven Data Access: A Case Study of Hepatitis C Virus Trials. AMIA ... Annual Symposium proceedings, 2018, 2018, 1601-1610.	0.2	9
54	Association of Postoperative Undertriage to Hospital Wards With Mortality and Morbidity. JAMA Network Open, 2021, 4, e2131669.	5.9	9

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55	Towards an ontological theory of substance intolerance and hypersensitivity. Journal of Biomedical Informatics, 2011, 44, 26-34.	4.3	8
56	Diagnosis, misdiagnosis, lucky guess, hearsay, and more: an ontological analysis. Journal of Biomedical Semantics, 2016, 7, 54.	1.6	8
57	An accurate and precise representation of drug ingredients. Journal of Biomedical Semantics, 2016, 7, 7.	1.6	8
58	Chief Complaints and ICD Codes. , 2006, , 333-359.		8
59	Temporal evolution of biomedical research grant collaborations across multiple scales--a CTSA baseline study. AMIA ... Annual Symposium proceedings, 2011, 2011, 987-93.	0.2	8
60	Enhancing the drug ontology with semantically-rich representations of National Drug Codes and RxNorm unique concept identifiers. BMC Bioinformatics, 2019, 20, 708.	2.6	7
61	Knowledge-based variable selection for learning rules from proteomic data. BMC Bioinformatics, 2009, 10, S16.	2.6	6
62	Combination Antihypertensive Therapy Prescribing and Blood Pressure Control in a Real-World Setting. American Journal of Hypertension, 2020, 33, 316-324.	2.0	5
63	Aligning Patient Acuity with Resource Intensity after Major Surgery. Annals of Surgery, 2021, Publish Ahead of Print, .	4.2	5
64	Sales of Over-the-Counter Healthcare Products. , 2006, , 321-331.		5
65	The Healthcare System. , 2006, , 89-109.		4
66	Mining aggregates of over-the-counter products for syndromic surveillance. Pattern Recognition Letters, 2009, 30, 255-266.	4.2	4
67	OC-2-KB: A software pipeline to build an evidence-based obesity and cancer knowledge base. , 2017, 2017, 1284-1287.		4
68	Objectively measured pediatric obesity prevalence using the OneFlorida Clinical Research Consortium. Obesity Research and Clinical Practice, 2019, 13, 12-15.	1.8	4
69	Comparing and Contrasting A Priori and A Posteriori Generalizability Assessment of Clinical Trials on Type 2 Diabetes Mellitus. AMIA ... Annual Symposium proceedings, 2017, 2017, 849-858.	0.2	4
70	Assessing the Validity of a Patient-Trial Generalizability Score using Real-world Data from a Large Clinical Data Research Network: A Colorectal Cancer Clinical Trial Case Study. AMIA ... Annual Symposium proceedings, 2019, 2019, 1101-1110.	0.2	4
71	Understanding biomedical research collaborations through social network analysis: A case study. , 2013, , .		3
72	Integrating a Commuting Model with the Bayesian Aerosol Release Detector. Lecture Notes in Computer Science, 2008, , 85-96.	1.3	3

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73	Towards a foundational representation of potential drug-drug interaction knowledge. CEUR Workshop Proceedings, 2014, 1309, 16-31.	2.3	3
74	Developing and Validating a Computable Phenotype for the Identification of Transgender and Gender Nonconforming Individuals and Subgroups. AMIA ... Annual Symposium proceedings, 2020, 2020, 514-523.	0.2	3
75	Effect of commuting on the detection and characterization performance of the Bayesian Aerosol Release Detector. , 2008, , .		2
76	Aligning the top-level of SNOMED-CT with Basic Formal Ontology. Nature Precedings, 2008, , .	0.1	2
77	A Temporal Extension of the Bayesian Aerosol Release Detector. Lecture Notes in Computer Science, 2008, , 97-107.	1.3	2
78	A multivariate procedure for identifying correlations between diagnoses and over-the-counter products from historical datasets. AMIA ... Annual Symposium proceedings, 2005, , 450-4.	0.2	2
79	Measuring the Information Gain of Diagnosis vs. Diagnosis Category Coding. AMIA ... Annual Symposium proceedings, 2010, 2010, 306-10.	0.2	2
80	Apollo: giving application developers a single point of access to public health models using structured vocabularies and Web services. AMIA ... Annual Symposium proceedings, 2013, 2013, 1415-24.	0.2	2
81	Automated Tools for Clinical Research Data Quality Control using NCI Common Data Elements. AMIA Summits on Translational Science Proceedings, 2014, 2014, 60-9.	0.4	2
82	Results: Survey of Pediatric Urology Electronic Medical Records—Use and Perspectives. Journal of Urology, 2011, 186, 1740-1745.	0.4	1
83	A Study of Deep Learning Methods for De-identification of Clinical Notes at Cross Institute Settings. , 2019, 2019, .		1
84	A realism-based approach to an ontological representation of symbiotic interactions. BMC Medical Informatics and Decision Making, 2020, 20, 258.	3.0	1
85	Postnatal pediatric systemic antibiotic episodes during the first three years of life are not associated with mode of delivery. PLoS ONE, 2020, 15, e0229861.	2.5	1
86	Information Technology Standards in Biosurveillance. , 2006, , 439-452.		1
87	A Study of Social and Behavioral Determinants of Health in Lung Cancer Patients Using Transformers-based Natural Language Processing Models.. AMIA ... Annual Symposium proceedings, 2021, 2021, 1225-1233.	0.2	1
88	Atmospheric Dispersion Modeling in Biosurveillance. , 2006, , 289-299.		0
89	An evaluation of three policies for updating product categories in the National Retail Data Monitor. AMIA ... Annual Symposium proceedings, 2005, , 325-9.	0.2	0