

# Zhe He

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

747  
citations

16  
h-index

22  
g-index

117  
ext. papers

995  
ext. citations

3.3  
avg, IF

4.44  
L-index

#	Paper	IF	Citations
90	Understanding Information Needs and Barriers to Accessing Health Information Across All Stages of Pregnancy: Systematic Review.. <i>JMIR Pediatrics and Parenting</i> , <b>2022</b> , 5, e32235	4.2	1
89	Assessing the use of prescription drugs and dietary supplements in obese respondents in the National Health and Nutrition Examination Survey. <i>PLoS ONE</i> , <b>2022</b> , 17, e0269241	3.7	0
88	Assessing the Impact of Imputation on the Interpretations of Prediction Models: A Case Study on Mortality Prediction for Patients with Acute Myocardial Infarction. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2021</b> , 2021, 465-474	1.1	
87	User-Centered System Design for Communicating Clinical Laboratory Test Results: Design and Evaluation Study. <i>JMIR Human Factors</i> , <b>2021</b> , 8, e26017	2.5	0
86	How the clinical research community responded to the COVID-19 pandemic: an analysis of the COVID-19 clinical studies in ClinicalTrials.gov. <i>JAMIA Open</i> , <b>2021</b> , 4, ooab032	2.9	1
85	Exploring the feasibility of using real-world data from a large clinical data research network to simulate clinical trials of Alzheimer's disease. <i>Npj Digital Medicine</i> , <b>2021</b> , 4, 84	15.7	2
84	How do mothers exchange parenting-related information in online communities? A meta-synthesis. <i>Computers in Human Behavior</i> , <b>2021</b> , 115, 106631	7.7	5
83	Pregnancy-Related Information Seeking in Online Health Communities: A Qualitative Study.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12646, 18-36	0.9	1
82	Machine learning-based prediction of health outcomes in pediatric organ transplantation recipients. <i>JAMIA Open</i> , <b>2021</b> , 4, ooab008	2.9	3
81	A deep learning approach for identifying cancer survivors living with post-traumatic stress disorder on Twitter. <i>BMC Medical Informatics and Decision Making</i> , <b>2020</b> , 20, 254	3.6	5
80	Explainable artificial intelligence models using real-world electronic health record data: a systematic scoping review. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2020</b> , 27, 1173-1185	8.6	55
79	Clinical Trial Generalizability Assessment in the Big Data Era: A Review. <i>Clinical and Translational Science</i> , <b>2020</b> , 13, 675-684	4.9	24
78	Assessing the Use and Perception of Dietary Supplements Among Obese Patients with National Health and Nutrition Examination Survey. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2020</b> , 2020, 231-240	1.1	1
77	Deep Learning Approach to Parse Eligibility Criteria in Dietary Supplements Clinical Trials Following OMOP Common Data Model <b>2020</b> , 2020, 243-252	0.7	
76	Retrieving Lab Test Related Questions from Social Q&A Sites by Combining Shallow Features and Deep Representations <b>2020</b> , 2020, 783-792	0.7	
75	Using Real-World Data to Rationalize Clinical Trials Eligibility Criteria Design: A Case Study of Alzheimer's Disease Trials <b>2020</b> , 2020, 717-726	0.7	2
74	Beliefs and Information Seeking in Patients With Cancer in Southwest China: Survey Study. <i>JMIR Cancer</i> , <b>2020</b> , 6, e16138	3.2	0

73	Patient Challenges and Needs in Comprehending Laboratory Test Results: Mixed Methods Study. <i>Journal of Medical Internet Research</i> , <b>2020</b> , 22, e18725	7.6	3
72	An Informatics Framework to Assess Consumer Health Language Complexity Differences: Proof-of-Concept Study. <i>Journal of Medical Internet Research</i> , <b>2020</b> , 22, e16795	7.6	4
71	How the clinical research community responded to the COVID-19 pandemic: An analysis of the COVID-19 clinical studies in ClinicalTrials.gov <b>2020</b> ,		1
70	Reporting results in U.S. clinical trials for obstructive sleep apnea and insomnia: How transparent are they?. <i>Sleep Health</i> , <b>2020</b> , 6, 529-533	4	2
69	Triage of documents containing protein interactions affected by mutations using an NLP based machine learning approach. <i>BMC Genomics</i> , <b>2020</b> , 21, 773	4.5	2
68	A review of auditing techniques for the Unified Medical Language System. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2020</b> , 27, 1625-1638	8.6	4
67	DeepConsensus: Consensus-based Interpretable Deep Neural Networks with Application to Mortality Prediction <b>2020</b> , 2020,		4
66	Selected articles from the Fourth International Workshop on Semantics-Powered Data Mining and Analytics (SEFDA 2019). <i>BMC Medical Informatics and Decision Making</i> , <b>2020</b> , 20, 315	3.6	
65	ALOHA: developing an interactive graph-based visualization for dietary supplement knowledge graph through user-centered design. <i>BMC Medical Informatics and Decision Making</i> , <b>2019</b> , 19, 150	3.6	10
64	Alternative classification of identical concepts in different terminologies: Different ways to view the world. <i>Journal of Biomedical Informatics</i> , <b>2019</b> , 94, 103193	10.2	3
63	Multivariate Multi-step Deep Learning Time Series Approach in Forecasting Parkinson's Disease Future Severity Progression <b>2019</b> ,		1
62	Building Computational Models to Predict One-Year Mortality in ICU Patients with Acute Myocardial Infarction and Post Myocardial Infarction Syndrome. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2019</b> , 2019, 407-416	1.1	10
61	Comparing the Study Populations in Dietary Supplement and Drug Clinical Trials for Metabolic Syndrome and Related Disorders. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2019</b> , 2019, 799-808	1.1	2
60	Improving Patient Participation in Cancer Clinical Trials: A Qualitative Analysis of HSRProj & RePORTER. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 1925-1926	0.5	1
59	Enhancing Prediction Models for One-Year Mortality in Patients with Acute Myocardial Infarction and Post Myocardial Infarction Syndrome. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 273-277	0.5	4
58	Analyzing Social Media Data to Understand Consumer Information Needs on Dietary Supplements. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 323-327	0.5	4
57	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 <b>2019</b> , 2019, 1101-1110	0.7	4
56	Understanding Perceptions and Attitudes in Breast Cancer Discussions on Twitter. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 1293-1297	0.5	5

55	Understanding Patient Information Needs About Their Clinical Laboratory Results: A Study of Social Q&A Site. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 1403-1407	0.5	6
54	Patient Engagement in Medical Research Among Older Adults: Analysis of the Health Information National Trends Survey. <i>Journal of Medical Internet Research</i> , <b>2019</b> , 21, e15035	7.6	2
53	Understanding and Bridging the Language and Terminology Gap Between Health Professionals and Consumers Using Social Media <b>2019</b> , 103-121		2
52	Extracting chemical-protein interactions from literature using sentence structure analysis and feature engineering. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2019</b> , 2019,	5	18
51	Biomedical word sense disambiguation with bidirectional long short-term memory and attention-based neural networks. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 502	3.6	10
50	Identification of Cancer Survivors Living with PTSD on Social Media. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 1468-1469	0.5	
49	Making Sense of Clinical Laboratory Results: An Analysis of Questions and Replies in a Social Q&A Community. <i>Studies in Health Technology and Informatics</i> , <b>2019</b> , 264, 2009-2010	0.5	0
48	Assessing the practice of biomedical ontology evaluation: Gaps and opportunities. <i>Journal of Biomedical Informatics</i> , <b>2018</b> , 80, 1-13	10.2	40
47	Validating UMLS Semantic Type Assignments Using SNOMED CT Semantic Tags. <i>Methods of Information in Medicine</i> , <b>2018</b> , 57, 43-53	1.5	2
46	Evaluating semantic relations in neural word embeddings with biomedical and general domain knowledge bases. <i>BMC Medical Informatics and Decision Making</i> , <b>2018</b> , 18, 65	3.6	12
45	OC-2-KB: integrating crowdsourcing into an obesity and cancer knowledge base curation system. <i>BMC Medical Informatics and Decision Making</i> , <b>2018</b> , 18, 55	3.6	14
44	Computable Eligibility Criteria through Ontology-driven Data Access: A Case Study of Hepatitis C Virus Trials <b>2018</b> , 2018, 1601-1610	0.7	9
43	Leveraging Horizontal Density Differences between Ontologies to Identify Missing Child Concepts: A Proof of Concept <b>2018</b> , 2018, 644-653	0.7	5
42	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. <i>Journal of Medical Internet Research</i> , <b>2018</b> , 20, e137	7.6	34
41	Layered Multistep Bidirectional Long Short-Term Memory Networks for Biomedical Word Sense Disambiguation <b>2018</b> ,		3
40	Natural Language Processing Empowered Mobile Computing. <i>Wireless Communications and Mobile Computing</i> , <b>2018</b> , 2018, 1-2	1.9	
39	Prototyping an Interactive Visualization of Dietary Supplement Knowledge Graph <b>2018</b> , 2018, 1649-1652.	2.8	2
38	Extended Analysis of Topological-Pattern-Based Ontology Enrichment <b>2018</b> , 2018, 1641-1648	0.8	3

37	Enriching consumer health vocabulary through mining a social Q&A site: A similarity-based approach. <i>Journal of Biomedical Informatics</i> , <b>2017</b> , 69, 75-85	10.2	29
36	Exploring text classification of social support in online health communities for people who are D/deaf and hard of hearing. <i>Proceedings of the Association for Information Science and Technology</i> , <b>2017</b> , 54, 840-841	0.4	1
35	Emergent trends in research to increase participation of underrepresented populations in cancer clinical trials: A qualitative analysis of the HSRProj database. <i>Proceedings of the Association for Information Science and Technology</i> , <b>2017</b> , 54, 677-678	0.4	0
34	Exploratory textual analysis of consumer health languages for people who are D/deaf and hard of hearing <b>2017</b> ,		2
33	Auditing the Assignments of Top-Level Semantic Types in the UMLS Semantic Network to UMLS Concepts <b>2017</b> , 2017, 1262-1269	0.8	4
32	OC-2-KB: A software pipeline to build an evidence-based obesity and cancer knowledge base <b>2017</b> , 2017, 1284-1287	0.8	2
31	Perceiving the Usefulness of the National Cancer Institute Metathesaurus for Enriching NCIt with Topological Patterns. <i>Studies in Health Technology and Informatics</i> , <b>2017</b> , 245, 863-867	0.5	5
30	Comparative Analysis of Geriatric and Adult Drug Clinical Trials on ClinicalTrials.gov. <i>Studies in Health Technology and Informatics</i> , <b>2017</b> , 245, 1265	0.5	1
29	Comparing and Contrasting A Priori and A Posteriori Generalizability Assessment of Clinical Trials on Type 2 Diabetes Mellitus <b>2017</b> , 2017, 849-858	0.7	4
28	Using Social Media Data to Understand the Impact of Promotional Information on Laypeople's Discussions: A Case Study of Lynch Syndrome. <i>Journal of Medical Internet Research</i> , <b>2017</b> , 19, e414	7.6	29
27	Quality Assurance of UMLS Semantic Type Assignments Using SNOMED CT Hierarchies. <i>Methods of Information in Medicine</i> , <b>2016</b> , 55, 158-65	1.5	10
26	Assessing the Comorbidity Gap between Clinical Studies and Prevalence in Elderly Patient Populations. <i>IEEE-EMBS International Conference on Biomedical and Health Informatics</i> , <b>2016</b> , 2016, 136-139	1.9	9
25	DREAM: Classification scheme for dialog acts in clinical research query mediation. <i>Journal of Biomedical Informatics</i> , <b>2016</b> , 59, 89-101	10.2	5
24	Multivariate analysis of the population representativeness of related clinical studies. <i>Journal of Biomedical Informatics</i> , <b>2016</b> , 60, 66-76	10.2	17
23	Topological-Pattern-Based Recommendation of UMLS Concepts for National Cancer Institute Thesaurus <b>2016</b> , 2016, 618-627	0.7	14
22	Preliminary Analysis of Difficulty of Importing Pattern-Based Concepts into the National Cancer Institute Thesaurus. <i>Studies in Health Technology and Informatics</i> , <b>2016</b> , 228, 389-93	0.5	9
21	Consumers' Use of UMLS Concepts on Social Media: Diabetes-Related Textual Data Analysis in Blog and Social Q&A Sites. <i>JMIR Medical Informatics</i> , <b>2016</b> , 4, e41	3.6	21
20	Mining Twitter to Assess the Public Perception of the "Internet of Things". <i>PLoS ONE</i> , <b>2016</b> , 11, e0158459	7.7	41

19	Analysis of Temporal Constraints in Qualitative Eligibility Criteria of Cancer Clinical Studies <b>2016</b> , 2016, 717-722	0.8	2
18	Assessing the population representativeness of colorectal cancer treatment clinical trials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 2970-2973	0.9	3
17	Towards an Obesity-Cancer Knowledge Base: Biomedical Entity Identification and Relation Detection <b>2016</b> , 2016, 1081-1088	0.8	12
16	Utilizing a structural meta-ontology for family-based quality assurance of the BioPortal ontologies. <i>Journal of Biomedical Informatics</i> , <b>2016</b> , 61, 63-76	10.2	14
15	Visual aggregate analysis of eligibility features of clinical trials. <i>Journal of Biomedical Informatics</i> , <b>2015</b> , 54, 241-55	10.2	17
14	A comparative analysis of the density of the SNOMED CT conceptual content for semantic harmonization. <i>Artificial Intelligence in Medicine</i> , <b>2015</b> , 64, 29-40	7.4	20
13	Predicting New Target Conditions for Drug Retesting Using Temporal Patterns in Clinical Trials: A Proof of Concept. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2015</b> , 2015, 445-9	1.1	
12	Assessing the Collective Population Representativeness of Related Type 2 Diabetes Trials by Combining Public Data from ClinicalTrials.gov and NHANES. <i>Studies in Health Technology and Informatics</i> , <b>2015</b> , 216, 569-73	0.5	20
11	Simulation-based Evaluation of the Generalizability Index for Study Traits <b>2015</b> , 2015, 594-603	0.7	9
10	Similarity-Based Recommendation of New Concepts to a Terminology <b>2015</b> , 2015, 386-95	0.7	6
9	Categorizing the Relationships between Structurally Congruent Concepts from Pairs of Terminologies for Semantic Harmonization. <i>AMIA Summits on Translational Science Proceedings</i> , <b>2014</b> , 2014, 48-53	1.1	13
8	A method for analyzing commonalities in clinical trial target populations <b>2014</b> , 2014, 1777-86	0.7	16
7	Sculpting the UMLS Refined Semantic Network. <i>Online Journal of Public Health Informatics</i> , <b>2014</b> , 6, e1810.3		9
6	Trend and Network Analysis of Common Eligibility Features for Cancer Trials in ClinicalTrials.gov. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 8549, 130-141	0.9	5
5	Rule-based support system for multiple UMLS semantic type assignments. <i>Journal of Biomedical Informatics</i> , <b>2013</b> , 46, 97-110	10.2	16
4	The readiness of SNOMED problem list concepts for meaningful use of electronic health records. <i>Artificial Intelligence in Medicine</i> , <b>2013</b> , 58, 73-80	7.4	24
3	A family-based framework for supporting quality assurance of biomedical ontologies in BioPortal <b>2013</b> , 2013, 581-90	0.7	14
2	Clinical Clarity versus Terminological Order - The Readiness of SNOMED CT Concept Descriptors for Primary Care <b>2012</b> , 2012, 1-6		3

- 1 Assessing the Impact of Imputation on the Interpretations of Prediction Models: A Case Study on Mortality Prediction for Patients with Acute Myocardial Infarction