

# Rong Xu

## List of Publications by Year in descending order

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93  
papers

4,002  
citations

172386

29  
h-index

143943

57  
g-index

96  
all docs

96  
docs citations

96  
times ranked

5135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased risk of COVID-19 infection and mortality in people with mental disorders: analysis from electronic health records in the United States. <i>World Psychiatry</i> , 2021, 20, 124-130.	4.8	491
2	COVID-19 risk and outcomes in patients with substance use disorders: analyses from electronic health records in the United States. <i>Molecular Psychiatry</i> , 2021, 26, 30-39.	4.1	455
3	Analyses of Risk, Racial Disparity, and Outcomes Among US Patients With Cancer and COVID-19 Infection. <i>JAMA Oncology</i> , 2021, 7, 220.	3.4	304
4	COVID-19 and dementia: Analyses of risk, disparity, and outcomes from electronic health records in the US. <i>Alzheimer's and Dementia</i> , 2021, 17, 1297-1306.	0.4	177
5	A genome-wide systems analysis reveals strong link between colorectal cancer and trimethylamine N-oxide (TMAO), a gut microbial metabolite of dietary meat and fat. <i>BMC Genomics</i> , 2015, 16, S4.	1.2	143
6	Towards understanding brain-gut-microbiome connections in Alzheimer's disease. <i>BMC Systems Biology</i> , 2016, 10, 63.	3.0	128
7	Incidence Rates and Clinical Outcomes of SARS-CoV-2 Infection With the Omicron and Delta Variants in Children Younger Than 5 Years in the US. <i>JAMA Pediatrics</i> , 2022, 176, 811.	3.3	108
8	Increased risk for COVID-19 breakthrough infection in fully vaccinated patients with substance use disorders in the United States between December 2020 and August 2021. <i>World Psychiatry</i> , 2022, 21, 124-132.	4.8	105
9	Large-scale extraction of accurate drug-disease treatment pairs from biomedical literature for drug repurposing. <i>BMC Bioinformatics</i> , 2013, 14, 181.	1.2	92
10	Tumor Necrosis Factor (TNF) blocking agents are associated with lower risk for Alzheimer's disease in patients with rheumatoid arthritis and psoriasis. <i>PLoS ONE</i> , 2020, 15, e0229819.	1.1	92
11	Oligodendroglial glycolytic stress triggers inflammasome activation and neuropathology in Alzheimer's disease. <i>Science Advances</i> , 2020, 6, .	4.7	79
12	Streamlined alpha-synuclein RT-QuIC assay for various biospecimens in Parkinson's disease and dementia with Lewy bodies. <i>Acta Neuropathologica Communications</i> , 2021, 9, 62.	2.4	79
13	Large-scale combining signals from both biomedical literature and the FDA Adverse Event Reporting System (FAERS) to improve post-marketing drug safety signal detection. <i>BMC Bioinformatics</i> , 2014, 15, 17.	1.2	71
14	Predict drug permeability to blood-brain-barrier from clinical phenotypes: drug side effects and drug indications. <i>Bioinformatics</i> , 2017, 33, 901-908.	1.8	61
15	Breakthrough SARS-CoV-2 Infections, Hospitalizations, and Mortality in Vaccinated Patients With Cancer in the US Between December 2020 and November 2021. <i>JAMA Oncology</i> , 2022, 8, 1027.	3.4	61
16	When hematologic malignancies meet COVID-19 in the United States: Infections, death and disparities. <i>Blood Reviews</i> , 2021, 47, 100775.	2.8	59
17	Towards building a disease-phenotype knowledge base: extracting disease-manifestation relationship from literature. <i>Bioinformatics</i> , 2013, 29, 2186-2194.	1.8	56
18	Comparison of mRNA-1273 and BNT162b2 Vaccines on Breakthrough SARS-CoV-2 Infections, Hospitalizations, and Death During the Delta-Predominant Period. <i>JAMA - Journal of the American Medical Association</i> , 2022, 327, 678.	3.8	53

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19	Psoriasis and Psoriatic Arthritis Cardiovascular Disease Endotypes Identified by Red Blood Cell Distribution Width and Mean Platelet Volume. <i>Journal of Clinical Medicine</i> , 2020, 9, 186.	1.0	50
20	COVID-19 breakthrough infections, hospitalizations and mortality in fully vaccinated patients with hematologic malignancies: A clarion call for maintaining mitigation and ramping-up research. <i>Blood Reviews</i> , 2022, 54, 100931.	2.8	49
21	COVID-19 risk, disparities and outcomes in patients with chronic liver disease in the United States. <i>EClinicalMedicine</i> , 2021, 31, 100688.	3.2	44
22	dRiskKB: a large-scale disease-disease risk relationship knowledge base constructed from biomedical text. <i>BMC Bioinformatics</i> , 2014, 15, 105.	1.2	41
23	Automatic construction of a large-scale and accurate drug-side-effect association knowledge base from biomedical literature. <i>Journal of Biomedical Informatics</i> , 2014, 51, 191-199.	2.5	40
24	Phenome-driven disease genetics prediction toward drug discovery. <i>Bioinformatics</i> , 2015, 31, i276-i283.	1.8	37
25	Association of Epigenetic Clock with Consensus Molecular Subtypes and Overall Survival of Colorectal Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2019, 28, 1720-1724.	1.1	37
26	Risks of SARS-CoV-2 Breakthrough Infection and Hospitalization in Fully Vaccinated Patients With Multiple Myeloma. <i>JAMA Network Open</i> , 2021, 4, e2137575.	2.8	35
27	Automatic signal extraction, prioritizing and filtering approaches in detecting post-marketing cardiovascular events associated with targeted cancer drugs from the FDA Adverse Event Reporting System (FAERS). <i>Journal of Biomedical Informatics</i> , 2014, 47, 171-177.	2.5	33
28	Comparative analysis of a novel disease phenotype network based on clinical manifestations. <i>Journal of Biomedical Informatics</i> , 2015, 53, 113-120.	2.5	33
29	Predict Alzheimer's disease using hippocampus MRI data: a lightweight 3D deep convolutional network model with visual and global shape representations. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 104.	3.0	32
30	Disease gene prioritization by integrating tissue-specific molecular networks using a robust multi-network model. <i>BMC Bioinformatics</i> , 2016, 17, 453.	1.2	31
31	A knowledge-driven conditional approach to extract pharmacogenomics specific drug-gene relationships from free text. <i>Journal of Biomedical Informatics</i> , 2012, 45, 827-834.	2.5	30
32	A semi-supervised approach to extract pharmacogenomics-specific drug-gene pairs from biomedical literature for personalized medicine. <i>Journal of Biomedical Informatics</i> , 2013, 46, 585-593.	2.5	30
33	PhenoPredict: A disease phenome-wide drug repositioning approach towards schizophrenia drug discovery. <i>Journal of Biomedical Informatics</i> , 2015, 56, 348-355.	2.5	30
34	Data-driven multiple-level analysis of gut-microbiome-immune-joint interactions in rheumatoid arthritis. <i>BMC Genomics</i> , 2019, 20, 124.	1.2	30
35	Drug repurposing for glioblastoma based on molecular subtypes. <i>Journal of Biomedical Informatics</i> , 2016, 64, 131-138.	2.5	29
36	Immunotherapy-related adverse events (irAEs): extraction from FDA drug labels and comparative analysis. <i>JAMIA Open</i> , 2019, 2, 173-178.	1.0	29

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37	Discrimination of MSA-P and MSA-C by RT-QulC analysis of olfactory mucosa: the first assessment of assay reproducibility between two specialized laboratories. <i>Molecular Neurodegeneration</i> , 2021, 16, 82.	4.4	28
38	KG-Predict: A knowledge graph computational framework for drug repurposing. <i>Journal of Biomedical Informatics</i> , 2022, 132, 104133.	2.5	28
39	Network-based gene prediction for <i>Plasmodium falciparum</i> malaria towards genetics-based drug discovery. <i>BMC Genomics</i> , 2015, 16, S9.	1.2	26
40	A Comprehensive Analysis of Five Million UMLS Metathesaurus Terms Using Eighteen Million MEDLINE Citations. <i>AMIA ... Annual Symposium proceedings</i> , 2010, 2010, 907-11.	0.2	26
41	COVID-19 breakthrough infections and hospitalizations among vaccinated patients with dementia in the United States between December 2020 and August 2021. <i>Alzheimer's and Dementia</i> , 2023, 19, 421-432.	0.4	26
42	ATAD3A oligomerization promotes neuropathology and cognitive deficits in Alzheimer's disease models. <i>Nature Communications</i> , 2022, 13, 1121.	5.8	24
43	Mining Cancer-Specific Disease Comorbidities from a Large Observational Health Database. <i>Cancer Informatics</i> , 2014, 13s1, CIN.S13893.	0.9	22
44	Unsupervised method for automatic construction of a disease dictionary from a large free text collection. <i>AMIA ... Annual Symposium proceedings</i> , 2008, , 820-4.	0.2	22
45	Large-scale mining disease comorbidity relationships from post-market drug adverse events surveillance data. <i>BMC Bioinformatics</i> , 2018, 19, 500.	1.2	21
46	Large-scale automatic extraction of side effects associated with targeted anticancer drugs from full-text oncological articles. <i>Journal of Biomedical Informatics</i> , 2015, 55, 64-72.	2.5	20
47	Context-sensitive network-based disease genetics prediction and its implications in drug discovery. <i>Bioinformatics</i> , 2017, 33, 1031-1039.	1.8	20
48	Combining phenome-driven drug-target interaction prediction with patients' electronic health records-based clinical corroboration toward drug discovery. <i>Bioinformatics</i> , 2020, 36, i436-i444.	1.8	20
49	Drug repurposing for opioid use disorders: integration of computational prediction, clinical corroboration, and mechanism of action analyses. <i>Molecular Psychiatry</i> , 2021, 26, 5286-5296.	4.1	19
50	A genomics-based systems approach towards drug repositioning for rheumatoid arthritis. <i>BMC Genomics</i> , 2016, 17, 518.	1.2	18
51	A Drug-Side Effect Context-Sensitive Network approach for drug target prediction. <i>Bioinformatics</i> , 2019, 35, 2100-2107.	1.8	18
52	Towards precision medicine-based therapies for glioblastoma: interrogating human disease genomics and mouse phenotypes. <i>BMC Genomics</i> , 2016, 17, 516.	1.2	17
53	SimQ: Real-Time Retrieval of Similar Consumer Health Questions. <i>Journal of Medical Internet Research</i> , 2015, 17, e43.	2.1	15
54	Gut-microbiota-microglia-brain interactions in Alzheimer's disease: knowledge-based, multi-dimensional characterization. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 177.	3.0	15

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55	A systems biology approach to predict and characterize human gut microbial metabolites in colorectal cancer. <i>Scientific Reports</i> , 2018, 8, 6225.	1.6	14
56	Epigenetic age acceleration and clinical outcomes in gliomas. <i>PLoS ONE</i> , 2020, 15, e0236045.	1.1	14
57	Combining text classification and Hidden Markov Modeling techniques for categorizing sentences in randomized clinical trial abstracts. <i>AMIA ... Annual Symposium proceedings</i> , 2006, , 824-8.	0.2	14
58	Combining Human Disease Genetics and Mouse Model Phenotypes towards Drug Repositioning for Parkinson's disease. <i>AMIA ... Annual Symposium proceedings</i> , 2015, 2015, 1851-60.	0.2	14
59	Toward creation of a cancer drug toxicity knowledge base: automatically extracting cancer drug-side effect relationships from the literature. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, 90-96.	2.2	13
60	Combining automatic table classification and relationship extraction in extracting anticancer drug-side effect pairs from full-text articles. <i>Journal of Biomedical Informatics</i> , 2015, 53, 128-135.	2.5	12
61	Phenome-based gene discovery provides information about Parkinson's disease drug targets. <i>BMC Genomics</i> , 2016, 17, 493.	1.2	12
62	Investigation of unsupervised pattern learning techniques for bootstrap construction of a medical treatment lexicon. , 2009, , .		12
63	Disease Comorbidity Network Guides the Detection of Molecular Evidence for the Link Between Colorectal Cancer and Obesity. <i>AMIA Summits on Translational Science Proceedings</i> , 2015, 2015, 201-6.	0.4	12
64	Comparing a knowledge-driven approach to a supervised machine learning approach in large-scale extraction of drug-side effect relationships from free-text biomedical literature. <i>BMC Bioinformatics</i> , 2015, 16, S6.	1.2	11
65	Extracting subject demographic information from abstracts of randomized clinical trial reports. <i>Studies in Health Technology and Informatics</i> , 2007, 129, 550-4.	0.2	11
66	Context-sensitive network analysis identifies food metabolites associated with Alzheimer's disease: an exploratory study. <i>BMC Medical Genomics</i> , 2019, 12, 17.	0.7	10
67	MetabolitePredict: A de novo human metabolomics prediction system and its applications in rheumatoid arthritis. <i>Journal of Biomedical Informatics</i> , 2017, 71, 222-228.	2.5	9
68	The Alzheimer's comorbidity phenome: mining from a large patient database and phenome-driven genetics prediction. <i>JAMIA Open</i> , 2019, 2, 131-138.	1.0	9
69	Unsupervised method for extracting machine understandable medical knowledge from a large free text collection. <i>AMIA ... Annual Symposium proceedings</i> , 2009, 2009, 709-13.	0.2	8
70	Ontology-guided organ detection to retrieve web images of disease manifestation: towards the construction of a consumer-based health image library. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 1076-1081.	2.2	7
71	Evaluating class III antiarrhythmic agents as novel MYC targeting drugs in ovarian cancer. <i>Gynecologic Oncology</i> , 2018, 151, 525-532.	0.6	7
72	Potential long-term effect of tumor necrosis factor inhibitors on dementia risk: A propensity score matched retrospective cohort study in US veterans. <i>Alzheimer's and Dementia</i> , 2022, 18, 1248-1259.	0.4	7

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73	Network Analysis of Human Disease Comorbidity Patterns Based on Large-Scale Data Mining. Lecture Notes in Computer Science, 2014, , 243-254.	1.0	7
74	Disease comorbidity-guided drug repositioning: a case study in schizophrenia. AMIA ... Annual Symposium proceedings, 2018, 2018, 1300-1309.	0.2	7
75	Semi-supervised image classification for automatic construction of a health image library. , 2012, , .		6
76	Explore Small Molecule-induced Genome-wide Transcriptional Profiles for Novel Inflammatory Bowel Disease Drug. AMIA Summits on Translational Science Proceedings, 2016, 2016, 22-31.	0.4	6
77	Multi-topic assignment for exploratory navigation of consumer health information in NetWellness using formal concept analysis. BMC Medical Informatics and Decision Making, 2014, 14, 63.	1.5	5
78	CoMNRank: An integrated approach to extract and prioritize human microbial metabolites from MEDLINE records. Journal of Biomedical Informatics, 2020, 109, 103524.	2.5	4
79	Dissecting the Ambiguity of FMA Concept Names Using Taxonomy and Partonomy Structural Information. AMIA Summits on Translational Science Proceedings, 2013, 2013, 157-61.	0.4	4
80	Mining comorbidities of opioid use disorder from FDA adverse event reporting system and patient electronic health records. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	4
81	DenguePredict: An Integrated Drug Repositioning Approach towards Drug Discovery for Dengue. AMIA ... Annual Symposium proceedings, 2015, 2015, 1279-88.	0.2	3
82	Combining mechanism-based prediction with patient-based profiling for psoriasis metabolomics biomarker discovery. AMIA ... Annual Symposium proceedings, 2017, 2017, 1734-1743.	0.2	3
83	An iterative searching and ranking algorithm for prioritising pharmacogenomics genes. International Journal of Computational Biology and Drug Design, 2013, 6, 18.	0.3	2
84	Automatic extraction, prioritization and analysis of gut microbial metabolites from biomedical literature. Scientific Reports, 2020, 10, 9996.	1.6	2
85	Integrating Large, Disparate Biomedical Ontologies to Boost Organ Development Network Connectivity. Lecture Notes in Computer Science, 2012, , 71-82.	1.0	2
86	Ontology-Guided Approach to Retrieving Disease Manifestation Images for Health Image Base Construction. , 2012, , .		1
87	Analysis of disease organ as a novel phenotype towards disease genetics understanding. Journal of Biomedical Informatics, 2019, 95, 103235.	2.5	1
88	tcTKB: an integrated cardiovascular toxicity knowledge base for targeted cancer drugs. AMIA ... Annual Symposium proceedings, 2015, 2015, 1342-51.	0.2	1
89	Drug repositioning for prostate cancer: using a data-driven approach to gain new insights. AMIA ... Annual Symposium proceedings, 2017, 2017, 1724-1733.	0.2	1
90	DenseCNN: A Densely Connected CNN Model for Alzheimer's Disease Classification Based on Hippocampus MRI Data. AMIA ... Annual Symposium proceedings, 2020, 2020, 1277-1286.	0.2	1

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91	Reply to "Post-COVID 19 neurological syndrome: A new risk factor that modifies the prognosis of patients with dementia". Alzheimer's and Dementia, 2022, 18, 544-544.	0.4	1
92	Computational Advances in Cancer Informatics (A). Cancer Informatics, 2014, 13s1, CIN.S19243.	0.9	0
93	Interrogating Patient-level Genomics and Mouse Phenomics towards Understanding Cytokines in Colorectal Cancer Metastasis. AMIA Summits on Translational Science Proceedings, 2017, 2017, 227-236.	0.4	0