Isaac S Kohane

List of Publications by Year
in descending order

200	21,092	19655 61	12272 133
papers	citations	h-index	g-index

287	287	287	30384
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression. Nature Genetics, 2018, 50, 668-681.	21.4	2,224
2	Machine Learning in Medicine. New England Journal of Medicine, 2019, 380, 1347-1358.	27.0	1,817
3	Artificial intelligence in healthcare. Nature Biomedical Engineering, 2018, 2, 719-731.	22.5	1,437
4	Big Data and Machine Learning in Health Care. JAMA - Journal of the American Medical Association, 2018, 319, 1317.	7.4	1,030
5	Serving the enterprise and beyond with informatics for integrating biology and the bedside (i2b2). Journal of the American Medical Informatics Association: JAMIA, 2010, 17, 124-130.	4.4	764
6	Effectiveness of a third dose of the BNT162b2 mRNA COVID-19 vaccine for preventing severe outcomes in Israel: an observational study. Lancet, The, 2021, 398, 2093-2100.	13.7	748
7	Genetic Misdiagnoses and the Potential for Health Disparities. New England Journal of Medicine, 2016, 375, 655-665.	27.0	602
8	Adversarial attacks on medical machine learning. Science, 2019, 363, 1287-1289.	12.6	558
9	SMART on FHIR: a standards-based, interoperable apps platform for electronic health records. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 899-908.	4.4	491
10	The Co-Morbidity Burden of Children and Young Adults with Autism Spectrum Disorders. PLoS ONE, 2012, 7, e33224.	2.5	431
11	Postsurgical prescriptions for opioid naive patients and association with overdose and misuse: retrospective cohort study. BMJ: British Medical Journal, 2018, 360, j5790.	2.3	428
12	The Incidentalome. JAMA - Journal of the American Medical Association, 2006, 296, 212.	7.4	298
13	Using electronic health records to drive discovery in disease genomics. Nature Reviews Genetics, 2011, 12, 417-428.	16.3	289
14	Identifying Patient Smoking Status from Medical Discharge Records. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 14-24.	4.4	283
15	Electronic medical records for discovery research in rheumatoid arthritis. Arthritis Care and Research, 2010, 62, 1120-1127.	3.4	272
16	The Shared Health Research Information Network (SHRINE): A Prototype Federated Query Tool for Clinical Data Repositories. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 624-630.	4.4	262
17	Effect of Genetic Diagnosis on Patients with Previously Undiagnosed Disease. New England Journal of Medicine, 2018, 379, 2131-2139.	27.0	261
18	The Clinician and Dataset Shift in Artificial Intelligence. New England Journal of Medicine, 2021, 385, 283-286.	27.0	249

#	Article	IF	Citations
19	Biases in electronic health record data due to processes within the healthcare system: retrospective observational study. BMJ: British Medical Journal, 2018, 361, k1479.	2.3	230
20	Development of phenotype algorithms using electronic medical records and incorporating natural language processing. BMJ, The, 2015, 350, h1885-h1885.	6.0	226
21	Effectiveness of the BNT162b2 mRNA COVID-19 vaccine in pregnancy. Nature Medicine, 2021, 27, 1693-1695.	30.7	222
22	Suicide Rates Among Adolescents and Young Adults in the United States, 2000-2017. JAMA - Journal of the American Medical Association, 2019, 321, 2362.	7.4	207
23	Creation and implications of a phenome-genome network. Nature Biotechnology, 2006, 24, 55-62.	17.5	190
24	MARRVEL: Integration of Human and Model Organism Genetic Resources to Facilitate Functional Annotation of the Human Genome. American Journal of Human Genetics, 2017, 100, 843-853.	6.2	181
25	Population-Level Evidence for an Autoimmune Etiology of Epilepsy. JAMA Neurology, 2014, 71, 569.	9.0	152
26	Characteristics and Predictive Value of Blood Transcriptome Signature in Males with Autism Spectrum Disorders. PLoS ONE, 2012, 7, e49475.	2.5	151
27	Translating Artificial Intelligence Into Clinical Care. JAMA - Journal of the American Medical Association, 2016, 316, 2368.	7.4	150
28	Framing the challenges of artificial intelligence in medicine. BMJ Quality and Safety, 2019, 28, 238-241.	3.7	146
29	Escaping the EHR Trap â€" The Future of Health IT. New England Journal of Medicine, 2012, 366, 2240-2242.	27.0	144
30	Improving Case Definition of CrohnÊ¼s Disease and Ulcerative Colitis in Electronic Medical Records Using Natural Language Processing. Inflammatory Bowel Diseases, 2013, 19, 1411-1420.	1.9	142
31	Toward high-throughput phenotyping: unbiased automated feature extraction and selection from knowledge sources. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 993-1000.	4.4	140
32	Tectonic Shifts in the Health Information Economy. New England Journal of Medicine, 2008, 358, 1732-1737.	27.0	136
33	A translational engine at the national scale: informatics for integrating biology and the bedside. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 181-185.	4.4	136
34	International electronic health record-derived COVID-19 clinical course profiles: the 4CE consortium. Npj Digital Medicine, 2020, 3, 109.	10.9	128
35	Instrumenting the health care enterprise for discovery research in the genomic era. Genome Research, 2009, 19, 1675-1681.	5.5	124
36	Ten things we have to do to achieve precision medicine. Science, 2015, 349, 37-38.	12.6	120

#	Article	IF	Citations
37	Prediction of Chronic Obstructive Pulmonary Disease (COPD) in Asthma Patients Using Electronic Medical Records. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 371-379.	4.4	118
38	An Electronic Health Records Study of Long-Term Weight Gain Following Antidepressant Use. JAMA Psychiatry, 2014, 71, 889.	11.0	118
39	Validation of Electronic Health Record Phenotyping of Bipolar Disorder Cases and Controls. American Journal of Psychiatry, 2015, 172, 363-372.	7.2	116
40	MEDICINE: Reestablishing the Researcher-Patient Compact. Science, 2007, 316, 836-837.	12.6	114
41	Driving Innovation in Health Systems through an Apps-Based Information Economy. Cell Systems, 2015, 1, 8-13.	6.2	113
42	Genetic Basis of Autoantibody Positive and Negative Rheumatoid Arthritis Risk in a Multi-ethnic Cohort Derived from Electronic Health Records. American Journal of Human Genetics, 2011, 88, 57-69.	6.2	112
43	SMART on FHIR Genomics: facilitating standardized clinico-genomic apps. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1173-1178.	4.4	110
44	Colonoscopy Is Associated With a Reduced Risk for Colon Cancer and Mortality in Patients With Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2015, 13, 322-329.e1.	4.4	107
45	SHRINE: Enabling Nationally Scalable Multi-Site Disease Studies. PLoS ONE, 2013, 8, e55811.	2.5	105
46	Association Between Reduced Plasma 25-Hydroxy Vitamin D and Increased Risk of Cancer in Patients With Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2014, 12, 821-827.	4.4	101
47	Estimates of healthcare spending for preterm and low-birthweight infants in a commercially insured population: 2008â€“2016. Journal of Perinatology, 2020, 40, 1091-1099.	2.0	100
48	Examining the Use of Realâ€World Evidence in the Regulatory Process. Clinical Pharmacology and Therapeutics, 2020, 107, 843-852.	4.7	99
49	High-throughput phenotyping with electronic medical record data using a common semi-supervised approach (PheCAP). Nature Protocols, 2019, 14, 3426-3444.	12.0	94
50	Architecture of the open-source clinical research chart from Informatics for Integrating Biology and the Bedside. AMIA ... Annual Symposium proceedings, 2007, , 548-52.	0.2	91
51	A database of human exposomes and phenomes from the US National Health and Nutrition Examination Survey. Scientific Data, 2016, 3, 160096.	5.3	85
52	Increasing the efficiency of trial-patient matching: automated clinical trial eligibility Pre-screening for pediatric oncology patients. BMC Medical Informatics and Decision Making, 2015, 15, 28.	3.0	82
53	Enabling phenotypic big data with PheNorm. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 54-60.	4.4	82
54	Methods to Develop an Electronic Medical Record Phenotype Algorithm to Compare the Risk of Coronary Artery Disease across 3 Chronic Disease Cohorts. PLoS ONE, 2015, 10, e0136651.	2.5	82

#	Article	IF	Citations
55	Scalable Collaborative Infrastructure for a Learning Healthcare System (SCILHS): Architecture. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 615-620.	4.4	76
56	Machine learning for patient risk stratification: standing on, or looking over, the shoulders of clinicians?. Npj Digital Medicine, 2021, 4, 62.	10.9	75
57	Rapid Identification of Myocardial Infarction Risk Associated With Diabetes Medications Using Electronic Medical Records. Diabetes Care, 2010, 33, 526-531.	8.6	74
58	Are Meaningful Use Stage 2 certified EHRs ready for interoperability? Findings from the SMART C-CDA Collaborative. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 1060-1068.	4.4	74
59	An interactive online dashboard for tracking COVID-19 in U.S. counties, cities, and states in real time. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1121-1125.	4.4	74
60	Phenome-wide association study (PheWAS) in EMR-linked pediatric cohorts, genetically links PLCL1 to speech language development and IL5-IL13 to Eosinophilic Esophagitis. Frontiers in Genetics, 2014, 5, 401.	2.3	70
61	Sentiment Measured in Hospital Discharge Notes Is Associated with Readmission and Mortality Risk: An Electronic Health Record Study. PLoS ONE, 2015, 10, e0136341.	2.5	70
62	A gene expression profile of stem cell pluripotentiality and differentiation is conserved across diverse solid and hematopoietic cancers. Genome Biology, 2012, 13, R71.	9.6	69
63	High-throughput multimodal automated phenotyping (MAP) with application to PheWAS. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1255-1262.	4.4	69
64	Classifying non-small cell lung cancer types and transcriptomic subtypes using convolutional neural networks. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 757-769.	4.4	69
65	Surrogate-assisted feature extraction for high-throughput phenotyping. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, e143-e149.	4.4	68
66	Rare Copy Number Variation in Treatment-Resistant Major Depressive Disorder. Biological Psychiatry, 2014, 76, 536-541.	1.3	67
67	Modeling Disease Severity in Multiple Sclerosis Using Electronic Health Records. PLoS ONE, 2013, 8, e78927.	2.5	67
68	Association of Sex With Recurrence of Autism Spectrum Disorder Among Siblings. JAMA Pediatrics, 2017, 171, 1107.	6.2	66
69	Beyond multidrug resistance: Leveraging rare variants with machine and statistical learning models in Mycobacterium tuberculosis resistance prediction. EBioMedicine, 2019, 43, 356-369.	6.1	66
70	Clinical Implications of Removing Race From Estimates of Kidney Function. JAMA - Journal of the American Medical Association, 2021, 325, 184-186.	7.4	66
71	The Tell-Tale Heart: Population-Based Surveillance Reveals an Association of Rofecoxib and Celecoxib with Myocardial Infarction. PLoS ONE, 2007, 2, e840.	2.5	62
72	Thromboprophylaxis Is Associated With Reduced Post-hospitalization Venous Thromboembolic Events in Patients With Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2014, 12, 1905-1910.	4.4	61

#	Article	IF	Citations
73	What Every Reader Should Know About Studies Using Electronic Health Record Data but May Be Afraid to Ask. Journal of Medical Internet Research, 2021, 23, e22219.	4.3	61
74	A comprehensive iterative approach is highly effective in diagnosing individuals who are exome negative. Genetics in Medicine, 2019, 21, 161-172.	2.4	60
75	Medicineâ€™s Uncomfortable Relationship With Math. JAMA Internal Medicine, 2014, 174, 991.	5.1	59
76	Pre-existing autoimmune disease and the risk of immune-related adverse events among patients receiving checkpoint inhibitors for cancer. Cancer Immunology, Immunotherapy, 2019, 68, 917-926.	4.2	59
77	Electronic Health Record Based Algorithm to Identify Patients with Autism Spectrum Disorder. PLoS ONE, 2016, 11, e0159621.	2.5	59
78	Statin Use Is Associated With Reduced Risk of Colorectal Cancer in Patients With Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2016, 14, 973-979.	4.4	56
79	Systematic correlation of environmental exposure and physiological and self-reported behaviour factors with leukocyte telomere length. International Journal of Epidemiology, 2017, 46, dyw043.	1.9	54
80	Use of electronic health records to support a public health response to the COVID-19 pandemic in the United States: a perspective from 15 academic medical centers. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 393-401.	4.4	54
81	SMART precision cancer medicine: a FHIR-based app to provide genomic information at the point of care. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 701-710.	4.4	53
82	Mortality and extraintestinal cancers in patients with primary sclerosing cholangitis and inflammatory bowel disease. Journal of Crohn's and Colitis, 2014, 8, 956-963.	1.3	49
83	A multidimensional precision medicine approach identifies an autism subtype characterized by dyslipidemia. Nature Medicine, 2020, 26, 1375-1379.	30.7	49
84	Systemic nature of spinal muscular atrophy revealed by studying insurance claims. PLoS ONE, 2019, 14, e0213680.	2.5	47
85	Temporal dynamics of the developing lung transcriptome in three common inbred strains of laboratory mice reveals multiple stages of postnatal alveolar development. PeerJ, 2016, 4, e2318.	2.0	47
86	EMR-linked GWAS study: investigation of variation landscape of loci for body mass index in children. Frontiers in Genetics, 2013, 4, 268.	2.3	46
87	Integrative analysis of genetic data sets reveals a shared innate immune component in autism spectrum disorder and its co-morbidities. Genome Biology, 2016, 17, 228.	8.8	46
88	ksRepo: a generalized platform for computational drug repositioning. BMC Bioinformatics, 2016, 17, 78.	2.6	46
89	Reproducible Machine Learning Methods for Lung Cancer Detection Using Computed Tomography Images: Algorithm Development and Validation. Journal of Medical Internet Research, 2020, 22, e16709.	4.3	43
90	iPSC-derived neurons as a higher-throughput readout for autism: promises and pitfalls. Trends in Molecular Medicine, 2014, 20, 91-104.	6.7	42

#	Article	IF	Citations
91	Practical considerations in genomic decision support: The eMERGE experience. Journal of Pathology Informatics, 2015, 6, 50.	1.7	42
92	Federalist principles for healthcare data networks. Nature Biotechnology, 2015, 33, 360-363.	17.5	39
93	A 21st-Century Health IT System â€" Creating a Real-World Information Economy. New England Journal of Medicine, 2017, 376, 1905-1907.	27.0	39
94	Serum Inflammatory Markers and Risk of Colorectal Cancer in Patients With Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2014, 12, 1342-1348.e1.	4.4	38
95	Auditory brainstem response in infants and children with autism spectrum disorder: A metaâ€analysis of wave V. Autism Research, 2018, 11, 355-363.	3.8	37
96	Validation of an internationally derived patient severity phenotype to support COVID-19 analytics from electronic health record data. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1411-1420.	4.4	37
97	A system for sharing routine surgical pathology specimens across institutions: the Shared Pathology Informatics Network. Human Pathology, 2007, 38, 1212-1225.	2.0	36
98	Creating a data resource: what will it take to build a medical information commons?. Genome Medicine, 2017, 9, 84.	8.2	36
99	Making sense out of massive data by going beyond differential expression. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5594-5599.	7.1	35
100	Clinical Genomics. JAMA - Journal of the American Medical Association, 2016, 315, 1233.	7.4	35
101	Summarizing polygenic risks for complex diseases in a clinical whole-genome report. Genetics in Medicine, 2015, 17, 536-544.	2.4	34
102	Deciphering serous ovarian carcinoma histopathology and platinum response by convolutional neural networks. BMC Medicine, 2020, 18, 236.	5.5	33
103	Temporal bias in case-control design: preventing reliable predictions of the future. Nature Communications, 2021, 12, 1107.	12.8	33
104	International Analysis of Electronic Health Records of Children and Youth Hospitalized With COVID-19 Infection in 6 Countries. JAMA Network Open, 2021, 4, e2112596.	5.9	33
105	Development of a Histopathology Informatics Pipeline for Classification and Prediction of Clinical Outcomes in Subtypes of Renal Cell Carcinoma. Clinical Cancer Research, 2021, 27, 2868-2878.	7.0	32
106	How NFTs could transform health information exchange. Science, 2022, 375, 500-502.	12.6	32
107	A fast divide-and-conquer sparse Cox regression. Biostatistics, 2021, 22, 381-401.	1.5	30
108	De Novo Pathogenic Variants in N-cadherin Cause a Syndromic Neurodevelopmental Disorder with Corpus Callosum, Axon, Cardiac, Ocular, and Genital Defects. American Journal of Human Genetics, 2019, 105, 854-868.	6.2	29

#	Article	IF	Citations
109	Medication Use in the Management of Comorbidities Among Individuals With Autism Spectrum Disorder From a Large Nationwide Insurance Database. JAMA Pediatrics, 2021, 175, 957.	6.2	29
110	Biomedical informatics and machine learning for clinical genomics. Human Molecular Genetics, 2018, 27, R29-R34.	2.9	28
111	Concordance between gene expression in peripheral whole blood and colonic tissue in children with inflammatory bowel disease. PLoS ONE, 2019, 14, e0222952.	2.5	28
112	The twin questions of personalized medicine: who are you and whom do you most resemble?. Genome Medicine, 2009, 1, 4.	8.2	27
113	Using the technology of the world wide web to manage clinical information. BMJ: British Medical Journal, 1997, 314, 1600-1600.	2.3	26
114	Combining clinical and genomics queries using i2b2 â€“ Three methods. PLoS ONE, 2017, 12, e0172187.	2.5	26
115	Batch correction evaluation framework using a-priori gene-gene associations: applied to the GTEx dataset. BMC Bioinformatics, 2019, 20, 268.	2.6	24
116	Prolonged Auditory Brainstem Response in Universal Hearing Screening of Newborns with Autism Spectrum Disorder. Autism Research, 2021, 14, 46-52.	3.8	24
117	A microRNA-1280/JAG2 network comprises a novel biological target in high-risk medulloblastoma. Oncotarget, 2015, 6, 2709-2724.	1.8	24
118	An Autism Case History to Review the Systematic Analysis of Large-Scale Data to Refine the Diagnosis and Treatment of Neuropsychiatric Disorders. Biological Psychiatry, 2015, 77, 59-65.	1.3	22
119	EHRtemporalVariability: delineating temporal data-set shifts in electronic health records. GigaScience, 2020, 9, .	6.4	22
120	Probabilistic record linkage of de-identified research datasets with discrepancies using diagnosis codes. Scientific Data, 2019, 6, 180298.	5.3	21
121	Integrative multiomics-histopathology analysis for breast cancer classification. Npj Breast Cancer, 2021, 7, 147.	5.2	21
122	Stratification of risk for hospital admissions for injury related to fall: cohort study. BMJ, The, 2014, 347, g5863-g5863.	6.0	20
123	Feature extraction for phenotyping from semantic and knowledge resources. Journal of Biomedical Informatics, 2019, 91, 103122.	4.3	20
124	Can we use linear Gaussian networks to model dynamic interactions among genes? Results from a simulation study. , 2006, , .		19
125	Challenges and recommendations for epigenomics in precision health. Nature Biotechnology, 2017, 35, 1128-1132.	17.5	19
126	Data-driven analyses revealed the comorbidity landscape of tuberous sclerosis complex. Neurology, 2018, 91, 974-976.	1.1	19

#	Article	IF	Citations
127	Aberrant mitochondrial function in patient-derived neural cells from CDKL5 deficiency disorder and Rett syndrome. Human Molecular Genetics, 2019, 28, 3625-3636.	2.9	19
128	International Changes in COVID-19 Clinical Trajectories Across 315 Hospitals and 6 Countries: Retrospective Cohort Study. Journal of Medical Internet Research, 2021, 23, e31400.	4.3	19
129	Divergent dysregulation of gene expression in murine models of fragile X syndrome and tuberous sclerosis. Molecular Autism, 2014, 5, 16.	4.9	18
130	Gene expression analysis in Fmr1KO mice identifies an immunological signature in brain tissue and mGluR5-related signaling in primary neuronal cultures. Molecular Autism, 2015, 6, 66.	4.9	18
131	Comprehensive Analysis of Tissue-wide Gene Expression and Phenotype Data Reveals Tissues Affected in Rare Genetic Disorders. Cell Systems, 2017, 5, 140-148.e2.	6.2	18
132	PheProb: probabilistic phenotyping using diagnosis codes to improve power for genetic association studies. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1359-1365.	4.4	18
133	Making the â€˜invisibleâ€™ visible: transforming the detection of intimate partner violence. BMJ Quality and Safety, 2020, 29, 241-244.	3.7	18
134	Improved de-identification of physician notes through integrative modeling of both public and private medical text. BMC Medical Informatics and Decision Making, 2013, 13, 112.	3.0	17
135	A conceptual model for translating omic data into clinical action. Journal of Pathology Informatics, 2015, 6, 46.	1.7	17
136	International electronic health record-derived post-acute sequelae profiles of COVID-19 patients. Npj Digital Medicine, 2022, 5, .	10.9	17
137	Designing a Public Square for Research Computing. Science Translational Medicine, 2012, 4, 149fs32.	12.4	16
138	Predictive Modeling of Physician-Patient Dynamics That Influence Sleep Medication Prescriptions and Clinical Decision-Making. Scientific Reports, 2017, 7, 42282.	3.3	16
139	Systematic Protein Prioritization for Targeted Proteomics Studies through Literature Mining. Journal of Proteome Research, 2018, 17, 1383-1396.	3.7	16
140	Commonalities across computational workflows for uncovering explanatory variants in undiagnosed cases. Genetics in Medicine, 2021, 23, 1075-1085.	2.4	16
141	Development of an Algorithm to Identify Patients with Physician-Documented Insomnia. Scientific Reports, 2018, 8, 7862.	3.3	15
142	Evaluation of the association of bariatric surgery with subsequent depression. International Journal of Obesity, 2019, 43, 2528-2535.	3.4	15
143	Accelerating diagnosis of Parkinsonâ€™s disease through risk prediction. BMC Neurology, 2021, 21, 201.	1.8	15
144	A model-driven methodology for exploring complex disease comorbidities applied to autism spectrum disorder and inflammatory bowel disease. Journal of Biomedical Informatics, 2016, 63, 366-378.	4.3	14

#	Article	IF	Citations
145	Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma. Scientific Reports, 2018, 8, 5437.	3.3	14
146	Measuring health-care delays among privately insured patients with tuberculosis in the USA: an observational cohort study. Lancet Infectious Diseases, The, 2021, 21, 1175-1183.	9.1	14
147	Real-world data analyses unveiled the immune-related adverse effects of immune checkpoint inhibitors across cancer types. Npj Precision Oncology, 2021, 5, 82.	5.4	14
148	A submission model for use in the indexing, searching, and retrieval of distributed pathology case and tissue specimens. Studies in Health Technology and Informatics, 2004, 107, 1264-7.	0.3	14
149	Utilization, Cost, and Outcome of Branded vs Compounded 17-Alpha Hydroxyprogesterone Caproate in Prevention of Preterm Birth. JAMA Internal Medicine, 2017, 177, 1689.	5.1	12
150	Phelanâ€McDermid syndrome data network: Integrating patient reported outcomes with clinical notes and curated genetic reports. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2018, 177, 613-624.	1.7	12
151	Autoimmune Effects of Lung Cancer Immunotherapy Revealed by Dataâ€Driven Analysis on a Nationwide Cohort. Clinical Pharmacology and Therapeutics, 2020, 107, 388-396.	4.7	12
152	Data Citizenship under the 21st Century Cures Act. New England Journal of Medicine, 2020, 382, 1781-1783.	27.0	12
153	Secondary Use of Health Information. JAMA Internal Medicine, 2013, 173, 1806.	5.1	10
154	Multinational characterization of neurological phenotypes in patients hospitalized with COVID-19. Scientific Reports, 2021, 11, 20238.	3.3	10
155	Artifact detection in the PO2 and PCO2 time series monitoring data from preterm infants. Journal of Clinical Monitoring and Computing, 1999, 15, 369-378.	1.6	9
156	COVID-19 infections following physical school reopening. Archives of Disease in Childhood, 2021, 106, e34-e34.	1.9	9
157	Healthcare spending and utilization for pediatric Irritable Bowel Syndrome in a commercially insured population. Neurogastroenterology and Motility, 2021, 33, e14147.	3.0	8
158	Assessing the reproducibility of asthma genome-wide association studies in a general clinical population. Journal of Allergy and Clinical Immunology, 2011, 127, 1067-1069.	2.9	7
159	A Cloud-Based Metabolite and Chemical Prioritization System for the Biology/Disease-Driven Human Proteome Project. Journal of Proteome Research, 2018, 17, 4345-4357.	3.7	7
160	Patient-led data sharing for clinical bioinformatics research: USCDI and beyond. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2298-2300.	4.4	7
161	International comparisons of laboratory values from the 4CE collaborative to predict COVID-19 mortality. Npj Digital Medicine, 2022, 5, .	10.9	7
162	Can We Measure Autism?. Science Translational Medicine, 2013, 5, 209ed18.	12.4	6

#	Article	IF	Citations
163	Suboptimal Clinical Documentation in Young Children with Severe Obesity at Tertiary Care Centers. International Journal of Pediatrics (United Kingdom), 2016, 2016, 1-9.	0.8	6
164	Automated grouping of medical codes via multiview banded spectral clustering. Journal of Biomedical Informatics, 2019, 100, 103322.	4.3	6
165	Meta-analysis of Caenorhabditis elegans single-cell developmental data reveals multi-frequency oscillation in gene activation. Bioinformatics, 2020, 36, 4047-4057.	4.1	6
166	METHODS TO ENHANCE THE REPRODUCIBILITY OF PRECISION MEDICINE. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 180-182.	0.7	6
167	Large-scale real-world data analysis identifies comorbidity patterns in schizophrenia. Translational Psychiatry, 2022, 12, 154.	4.8	6
168	Association of Race and Socioeconomic Disadvantage With Missed Telemedicine Visits for Pediatric Patients During the COVID-19 Pandemic. JAMA Pediatrics, 2022, 176, 933.	6.2	6
169	AI for the Eye â€" Automated Assistance for Clinicians Screening for Papilledema. New England Journal of Medicine, 2020, 382, 1760-1761.	27.0	5
170	Multi-PheWAS intersection approach to identify sex differences across comorbidities in 59 140 pediatric patients with autism spectrum disorder. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 230-238.	4.4	5
171	Learning Contextual Hierarchical Structure of Medical Concepts with PoincairÃ© Embeddings to Clarify Phenotypes. , 2018, , .		5
172	No small matter: qualitatively distinct challenges of pediatric genomic studies. Genome Medicine, 2011, 3, 62.	8.2	4
173	Rcupcake: an R package for querying and analyzing biomedical data through the BD2K PIC-SURE RESTful API. Bioinformatics, 2018, 34, 1431-1432.	4.1	4
174	Learning Contextual Hierarchical Structure of Medical Concepts with PoincairÃ© Embeddings to Clarify Phenotypes. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2019, 24, 8-17.	0.7	4
175	Changes in laboratory value improvement and mortality rates over the course of the pandemic: an international retrospective cohort study of hospitalised patients infected with SARS-CoV-2. BMJ Open, 2022, 12, e057725.	1.9	4
176	HD CAGnome: A Search Tool for Huntingtin CAG Repeat Length-Correlated Genes. PLoS ONE, 2014, 9, e95556.	2.5	3
177	Longitudinal imaging history in early identification of intimate partner violence. European Radiology, 2021, , 1.	4.5	3
178	Association of Postsurgical Opioid Refills for Patients With Risk of Opioid Misuse and Chronic Opioid Use Among Family Members. JAMA Network Open, 2022, 5, e2221316.	5.9	3
179	Editorial: Methods in Functional Genomics. Machine Learning, 2003, 52, 5-9.	5.4	2
180	Treating the enigmatic â€œexceptional respondersâ€•as patients with undiagnosed diseases. Science Translational Medicine, 2016, 8, 340ed8.	12.4	2

#	Article	IF	Citations
181	Use of Narrative Concepts in Electronic Health Records to Validate Associations Between Genetic Factors and Response to Treatment of Inflammatory Bowel Diseases. Clinical Gastroenterology and Hepatology, 2020, 18, 1890-1892.	4.4	2
182	Illustrating potential effects of alternate control populations on real-world evidence-based statistical analyses. JAMIA Open, 2021, 4, ooab045.	2.0	2
183	Finding commonalities in rare diseases through the undiagnosed diseases network. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1694-1702.	4.4	2
184	METHODS TO ENHANCE THE REPRODUCIBILITY OF PRECISION MEDICINE. , 2016, , .		2
185	UNSUPERVISED LEARNING FROM COMPLEX DATA: THE MATRIX INCISION TREE ALGORITHM. , 2000, , 30-41.		2
186	REPRODUCIBLE AND SHAREABLE QUANTIFICATIONS OF PATHOGENICITY. , 2016, , .		2
187	Trends in Medical Management of Moderately to Severely Active Ulcerative Colitis: A Nationwide Retrospective Analysis. Inflammatory Bowel Diseases, 0, , .	1.9	2
188	Marco Ramoni: an appreciation of academic achievement. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 367-369.	4.4	1
189	What Weâ€™ll See At The Revolution In CareThe Creative Destruction Of Medicine: How The Digital Revolution Will Create Better Health Care By Topol Eric New York (NY) : Basic Books , 2012 303App.; $27.99. Health Affairs, 2012, 31, 2148-2149.	5.2	1
190	Donald A. B. Lindberg (1933â€“2019). Science, 2019, 366, 37-37.	12.6	1
191	Cross-modal representation alignment of molecular structure and perturbation-induced transcriptional profiles. , 2020, , .		1
192	Finding a new balance between a genetics-first or phenotype-first approach to the study of disease. Neuron, 2021, 109, 2216-2219.	8.1	1
193	Fecal microbiota transplantation and Clostridioides difficile infection among privately insured patients in the United States. Journal of Gastroenterology, 2022, 57, 10-18.	5.1	1
194	Building an i2b2-Based Population Repository for COVID-19 Research. Studies in Health Technology and Informatics, 2022, , .	0.3	1
195	A Bayesian dynamic model for influenza surveillance. Statistics in Medicine, 2006, 25, 1823-1825.	1.6	0
196	Role of intestinal gene expression profiles in the diagnosis of Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2011, 17, S65.	1.9	0
197	ATLAS: an automated association test using probabilistically linked health records with application to genetic studies. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2582-2592.	4.4	0
198	A New Implementation Method of the Reverse Engineering Algorithm to Elucidate Gene Functional Dependencies. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1712-1718.	0.2	0

#	Article	IF	Citations
199	The Future of Informatics in Biomedicine. , 2014, , 797-811.		0
200	A-to-I RNA Editing in Autism Spectrum Disorder. , 2014, , 229-248.		0