Jonathan H Chen

List of Publications by Year
in descending order

72	2,777	279798 23	197818 49
papers	citations	h-index	g-index

78	78	78	3750
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine Learning and Prediction in Medicine â€" Beyond the Peak of Inflated Expectations. New England Journal of Medicine, 2017, 376, 2507-2509.	27.0	717
2	Deep learning interpretation of echocardiograms. Npj Digital Medicine, 2020, 3, 10.	10.9	233
3	Responding to the opioid crisis in North America and beyond: recommendations of the Stanfordâ€"Lancet Commission. Lancet, The, 2022, 399, 555-604.	13.7	180
4	Explainable artificial intelligence models using real-world electronic healthÂrecord data: a systematic scoping review. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1173-1185.	4.4	160
5	Learning to Predict Chemical Reactions. Journal of Chemical Information and Modeling, 2011, 51, 2209-2222.	5.4	148
6	ChemDB update full-text search and virtual chemical space. Bioinformatics, 2007, 23, 2348-2351.	4.1	117
7	Distribution of Opioids by Different Types of Medicare Prescribers. JAMA Internal Medicine, 2016, 176, 259.	5.1	113
8	Decaying relevance of clinical data towards future decisions in data-driven inpatient clinical order sets. International Journal of Medical Informatics, 2017, 102, 71-79.	3.3	80
9	One- to Four-Dimensional Kernels for Virtual Screening and the Prediction of Physical, Chemical, and Biological Properties. Journal of Chemical Information and Modeling, 2007, 47, 965-974.	5.4	56
10	Predicting inpatient clinical order patterns with probabilistic topic models vs conventional order sets. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 472-480.	4.4	54
11	No Electron Left Behind: A Rule-Based Expert System To Predict Chemical Reactions and Reaction Mechanisms. Journal of Chemical Information and Modeling, 2009, 49, 2034-2043.	5.4	51
12	Characterizing electronic health record usage patterns of inpatient medicine residents using event log data. PLoS ONE, 2019, 14, e0205379.	2.5	51
13	Development and Performance of the Pulmonary Embolism Result Forecast Model (PERFORM) for Computed Tomography Clinical Decision Support. JAMA Network Open, 2019, 2, e198719.	5.9	50
14	Research and Reporting Considerations for Observational Studies Using Electronic Health Record Data. Annals of Internal Medicine, 2020, 172, S79-S84.	3.9	46
15	OrderRex: clinical order decision support and outcome predictions by data-mining electronic medical records. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 339-348.	4.4	42
16	Assessing clinical heterogeneity in sepsis through treatment patterns and machine learning. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1466-1477.	4.4	42
17	Internal Medicine Resident Computer Usage. JAMA Internal Medicine, 2016, 176, 252.	5.1	41
18	Use of Opioid Agonist Therapy for Medicare Patients in 2013. JAMA Psychiatry, 2016, 73, 990.	11.0	37

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19	Assessment of Prevalence of Adolescent Patient Portal Account Access by Guardians. JAMA Network Open, 2021, 4, e2124733.	5.9	32
20	Clinical Decision Support and Implications for the Clinician Burnout Crisis. Yearbook of Medical Informatics, 2020, 29, 145-154.	1.0	29
21	Functional Census of Mutation Sequence Spaces: The Example of p53 Cancer Rescue Mutants. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 114-125.	3.0	28
22	Synthesis Explorer: A Chemical Reaction Tutorial System for Organic Synthesis Design and Mechanism Prediction. Journal of Chemical Education, 2008, 85, 1699.	2.3	27
23	Effect of opioid prescribing guidelines in primary care. Medicine (United States), 2016, 95, e4760.	1.0	27
24	Applications of machine learning in routine laboratory medicine: Current state and future directions. Clinical Biochemistry, 2022, 103, 1-7.	1.9	26
25	Deep learning evaluation of biomarkers from echocardiogram videos. EBioMedicine, 2021, 73, 103613.	6.1	25
26	Prevalence and Predictability of Low-Yield Inpatient Laboratory Diagnostic Tests. JAMA Network Open, 2019, 2, e1910967.	5.9	24
27	Why providers transfuse blood products outside recommended guidelines in spite of integrated electronic best practice alerts. Journal of Hospital Medicine, 2015, 10, 1-7.	1.4	23
28	When order sets do not align with clinician workflow: assessing practice patterns in the electronic health record. BMJ Quality and Safety, 2019, 28, bmjqs-2018-008968.	3.7	22
29	How are medical students using the Electronic Health Record (EHR)?: An analysis of EHR use on an inpatient medicine rotation. PLoS ONE, 2019, 14, e0221300.	2.5	20
30	An evaluation of clinical order patterns machine-learned from clinician cohorts stratified by patient mortality outcomes. Journal of Biomedical Informatics, 2018, 86, 109-119.	4.3	17
31	Impact of problem-based charting on the utilization and accuracy of the electronic problem list. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 548-554.	4.4	17
32	Personalized antibiograms for machine learning driven antibiotic selection. Communications Medicine, 2022, 2, .	4.2	17
33	Patient Outcomes when Housestaff Exceed 80 Hours per Week. American Journal of Medicine, 2016, 129, 993-999.e1.	1.5	16
34	Fulfilling outpatient medicine responsibilities during internal medicine residency: a quantitative study of housestaff participation with between visit tasks. BMC Medical Education, 2016, 16, 139.	2.4	15
35	Machine learning for initial insulin estimation in hospitalized patients. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2212-2219.	4.4	15
36	Automated physician order recommendations and outcome predictions by data-mining electronic medical records. AMIA Summits on Translational Science Proceedings, 2014, 2014, 206-10.	0.4	14

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37	Improving and sustaining a reduction in iatrogenic pneumothorax through a multifaceted qualityâ€improvement approach. Journal of Hospital Medicine, 2015, 10, 599-607.	1.4	13
38	OrderRex clinical user testing: a randomized trial of recommender system decision support on simulated cases. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1850-1859.	4.4	12
39	Developing machine learning models to personalize care levels among emergency room patients for hospital admission. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2423-2432.	4.4	11
40	Data-Mining Electronic Medical Records for Clinical Order Recommendations: Wisdom of the Crowd or Tyranny of the Mob?. AMIA Summits on Translational Science Proceedings, 2015, 2015, 435-9.	0.4	10
41	Signal from the noise: A mixed graphical and quantitative process mining approach to evaluate care pathways applied to emergency stroke care. Journal of Biomedical Informatics, 2022, 127, 104004.	4.3	10
42	Planning for the Known Unknown: Machine Learning for Human Healthcare Systems. American Journal of Bioethics, 2020, 20, 1-3.	0.9	9
43	Reversals and limitations on high-intensity, life-sustaining treatments. PLoS ONE, 2018, 13, e0190569.	2.5	7
44	ClinicNet: machine learning for personalized clinical order set recommendations. JAMIA Open, 2020, 3, 216-224.	2.0	7
45	Tele-Clinic Visits in Pediatric Patients with Marfan Syndrome Using Parentally Acquired Echocardiography. Journal of Pediatrics, 2021, 232, 140-146.	1.8	7
46	A web-based app to provide personalized recommendations for COVID-19. Nature Medicine, 2022, 28, 1105-1106.	30.7	7
47	Mining for clinical expertise in (undocumented) order sets to power an order suggestion system. AMIA Summits on Translational Science Proceedings, 2013, 2013, 34-8.	0.4	6
48	DYNAMICALLY EVOLVING CLINICAL PRACTICES AND IMPLICATIONS FOR PREDICTING MEDICAL DECISIONS. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 195-206.	0.7	6
49	Neural Networks for Clinical Order Decision Support. AMIA Summits on Translational Science Proceedings, 2019, 2019, 315-324.	0.4	6
50	BSAC Vanguard Series: Artificial intelligence and antibiotic stewardship. Journal of Antimicrobial Chemotherapy, 2022, 77, 1216-1217.	3.0	6
51	Acetaminophen or Tylenol? A Retrospective Analysis of Medication Digital Communication Practices. Journal of General Internal Medicine, 2018, 33, 1218-1220.	2.6	5
52	The Patient You Least Want to See. JAMA - Journal of the American Medical Association, 2016, 315, 1701.	7.4	4
53	Artificial intelligence in medicine: past, present, and future. , 2021, , 3-18.		4
54	A Data-Driven Algorithm to Recommend Initial Clinical Workup for Outpatient Specialty Referral: Algorithm Development and Validation Using Electronic Health Record Data and Expert Surveys. JMIR Medical Informatics, 2022, 10, e30104.	2.6	4

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55	Statistical Physics for Medical Diagnostics: Learning, Inference, and Optimization Algorithms. Diagnostics, 2020, 10, 972.	2.6	3
56	Health Equity in Artificial Intelligence and Primary Care Research: Protocol for a Scoping Review. JMIR Research Protocols, 2021, 10, e27799.	1.0	3
57	Inpatient Clinical Order Patterns Machine-Learned From Teaching Versus Attending-Only Medical Services. AMIA Summits on Translational Science Proceedings, 2018, 2017, 226-235.	0.4	3
58	A Machine Learning Approach to Predicting the Stability of Inpatient Lab Test Results. AMIA Summits on Translational Science Proceedings, 2019, 2019, 515-523.	0.4	3
59	Physician Usage and Acceptance of a Machine Learning Recommender System for Simulated Clinical Order Entry. AMIA Summits on Translational Science Proceedings, 2020, 2020, 89-97.	0.4	2
60	Clinical Recommender Algorithms to Simulate Digital Specialty Consultations. , 2021, , .		2
61	National Trends in Pediatric Ambulatory Telehealth Utilization and Follow-Up Care. Telemedicine Journal and E-Health, 2023, 29, 137-140.	2.8	2
62	What's in a Name? Factors That Influence the Usage of Generic Versus Trade Names for Cardiac Medications Among Healthcare Providers. Circulation: Cardiovascular Quality and Outcomes, 2018, 11, e004704.	2.2	1
63	Annals for Hospitalists Inpatient Notes - Realizing the Promises of Hospital Electronic Order Sets. Annals of Internal Medicine, 2020, 173, HO2-HO3.	3.9	1
64	The Impact of Big Data on the Physician. Studies in Big Data, 2018, , 415-448.	1.1	1
65	Predicting Low Information Laboratory Diagnostic Tests. AMIA Summits on Translational Science Proceedings, 2018, 2017, 217-226.	0.4	1
66	Engaging Housestaff as Informatics Collaborators: Educational and Operational Opportunities. Applied Clinical Informatics, 2021, 12, 1150-1156.	1.7	1
67	Reaction Explorer:Towards a Knowledge Map of Organic Chemistry To Support Dynamic Assessment and Personalized Instruction. ACS Symposium Series, 2010, , 191-209.	0.5	0
68	Association model data learned from clinicians stratified by patient mortality outcomes at a Tertiary Academic Center. Data in Brief, 2018, 21, 1669-1673.	1.0	0
69	Predicting the Need for Basal-Bolus Insulin in Hospitalized Patients With Hyperglycemia: Is Sliding Scale Sometimes the Answer?. Journal of the Endocrine Society, 2021, 5, A429-A430.	0.2	0
70	MON-611 Using Machine Learning on Electronic Health Records to Predict Inpatient Glucose Levels and Physiciansâ€™ Insulin Dosing. Journal of the Endocrine Society, 2020, 4, .	0.2	0
71	Precision Medicine: Using Artificial Intelligence to Improve Diagnostics and Healthcare. , 2021, , .		0
72	The New HIT: Human Health Information Technology. Studies in Health Technology and Informatics, 2017, 245, 768-772.	0.3	0