

# Chirag J Patel

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

5,170  
citations

101543

36  
h-index

102487

66  
g-index

146  
all docs

146  
docs citations

146  
times ranked

9266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence of Fatty Liver Disease is Driven by Prediabetes and Diabetes: US NHANES 2017–2018. <i>Clinical Gastroenterology and Hepatology</i> , 2022, 20, 712-713.	4.4	2
2	Clinical laboratory tests associated with survival in patients with metastatic renal cell carcinoma: A Laboratory Wide Association Study (LWAS). <i>Urologic Oncology: Seminars and Original Investigations</i> , 2022, 40, 12.e23-12.e30.	1.6	3
3	Integrated molecular response of exposure to traffic-related pollutants in the US trucking industry. <i>Environment International</i> , 2022, 158, 106957.	10.0	5
4	Systematically assessing microbiome–disease associations identifies drivers of inconsistency in metagenomic research. <i>PLoS Biology</i> , 2022, 20, e3001556.	5.6	13
5	Shared exposure liability of type 2 diabetes and other chronic conditions in the UK Biobank. <i>Acta Diabetologica</i> , 2022, 59, 851-860.	2.5	5
6	Exposome-wide ranking of modifiable risk factors for cardiometabolic disease traits. <i>Scientific Reports</i> , 2022, 12, 4088.	3.3	5
7	Secular Trends in Prevalence of Heart Failure Diagnosis over 20 Years (from the US NHANES). <i>American Journal of Cardiology</i> , 2022, , .	1.6	4
8	Using deep learning to predict abdominal age from liver and pancreas magnetic resonance images. <i>Nature Communications</i> , 2022, 13, 1979.	12.8	17
9	Identification of occupations susceptible to high exposure and risk associated with multiple toxicants in an observational study: National Health and Nutrition Examination Survey 1999–2014. <i>Exposome</i> , 2022, 2, .	2.8	6
10	Examining the robustness of observational associations to model, measurement and sampling uncertainty with the vibration of effects framework. <i>International Journal of Epidemiology</i> , 2021, 50, 266-278.	1.9	18
11	Laboratory-wide association study of survival with prostate cancer. <i>Cancer</i> , 2021, 127, 1102-1113.	4.1	6
12	EGFR-targeted intraoperative fluorescence imaging detects high-grade glioma with panitumumab-IRDye800 in a phase 1 clinical trial. <i>Theranostics</i> , 2021, 11, 7130-7143.	10.0	31
13	Comparisons of Polyexposure, Polygenic, and Clinical Risk Scores in Risk Prediction of Type 2 Diabetes. <i>Diabetes Care</i> , 2021, 44, 935-943.	8.6	35
14	Data-driven assessment, contextualisation and implementation of 134 variables in the risk for type 2 diabetes: an analysis of Lifelines, a prospective cohort study in the Netherlands. <i>Diabetologia</i> , 2021, 64, 1268-1278.	6.3	3
15	BIMG-16. TRACKING TTFIELDS-INDUCED ALTERATIONS IN GLIOBLASTOMA METABOLISM WITH [18F]DASA-23, A NON-INVASIVE PROBE OF PYRUVATE KINASE M2 (PKM2). <i>Neuro-Oncology Advances</i> , 2021, 3, i4-i4.	0.7	0
16	Gene-level metagenomic architectures across diseases yield high-resolution microbiome diagnostic indicators. <i>Nature Communications</i> , 2021, 12, 2907.	12.8	33
17	Temporal exposure and consistency of endocrine disrupting chemicals in a longitudinal study of individuals with impaired fasting glucose. <i>Environmental Research</i> , 2021, 197, 110901.	7.5	10
18	Diverse experts'™ perspectives on ethical issues of using machine learning to predict HIV/AIDS risk in sub-Saharan Africa: a modified Delphi study. <i>BMJ Open</i> , 2021, 11, e052287.	1.9	8

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19	Utilizing a Biology-Driven Approach to Map the Exposome in Health and Disease: An Essential Investment to Drive the Next Generation of Environmental Discovery. <i>Environmental Health Perspectives</i> , 2021, 129, 85001.	6.0	20
20	Evolving phenotypes of non-hospitalized patients that indicate long COVID. <i>BMC Medicine</i> , 2021, 19, 249.	5.5	87
21	Leveraging vibration of effects analysis for robust discovery in observational biomedical data science. <i>PLoS Biology</i> , 2021, 19, e3001398.	5.6	12
22	Characterising the relationships between physiological indicators and all-cause mortality (NHANES): a population-based cohort study. <i>The Lancet Healthy Longevity</i> , 2021, 2, e651-e662.	4.6	11
23	Association of 152 Biomarker Reference Intervals with All-Cause Mortality in Participants of a General United States Survey from 1999 to 2010. <i>Clinical Chemistry</i> , 2021, 67, 500-507.	3.2	3
24	Using Cartesian Doubt To Build a Sequencing-Based View of Microbiology. <i>MSystems</i> , 2021, 6, e0057421.	3.8	2
25	Plasma metabolomics of autism spectrum disorder and influence of shared components in proband families. <i>Exposome</i> , 2021, 1, osab004.	2.8	5
26	What about the environment? Leveraging multi-omic datasets to characterize the environment's role in human health. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2021, 26, 309-315.	0.7	0
27	Development and validation pathways of artificial intelligence tools evaluated in randomised clinical trials. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100466.	3.0	6
28	A nutrient-wide association study for risk of prostate cancer in the European Prospective Investigation into Cancer and Nutrition and the Netherlands Cohort Study. <i>European Journal of Nutrition</i> , 2020, 59, 2929-2937.	3.9	11
29	Scalability and cost-effectiveness analysis of whole genome-wide association studies on Google Cloud Platform and Amazon Web Services. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 1425-1430.	4.4	15
30	A systematic machine learning and data type comparison yields metagenomic predictors of infant age, sex, breastfeeding, antibiotic usage, country of origin, and delivery type. <i>PLoS Computational Biology</i> , 2020, 16, e1007895.	3.2	21
31	A multi-omic analysis of birthweight in newborn cord blood reveals new underlying mechanisms related to cholesterol metabolism. <i>Metabolism: Clinical and Experimental</i> , 2020, 110, 154292.	3.4	25
32	Characteristics of undiagnosed diabetes in men and women under the age of 50 years in the Indian subcontinent: the National Family Health Survey (NFHS-4)/Demographic Health Survey 2015-2016. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e000965.	2.8	34
33	Prediction of chronological and biological age from laboratory data. <i>Aging</i> , 2020, 12, 7626-7638.	3.1	16
34	Metabolites, Nutrients, and Lifestyle Factors in Relation to Coffee Consumption: An Environment-Wide Association Study. <i>Nutrients</i> , 2020, 12, 1470.	4.1	11
35	What about the environment? Leveraging multi-omic datasets to characterize the environment's role in human health. , 2020, , .		0
36	Title is missing!. , 2020, 16, e1007895.		0

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37	Title is missing!. , 2020, 16, e1007895.		0
38	Title is missing!. , 2020, 16, e1007895.		0
39	Title is missing!. , 2020, 16, e1007895.		0
40	Title is missing!. , 2020, 16, e1007895.		0
41	Title is missing!. , 2020, 16, e1007895.		0
42	The Landscape of Genetic Content in the Gut and Oral Human Microbiome. Cell Host and Microbe, 2019, 26, 283-295.e8.	11.0	207
43	Family History“Wide Association Study to Identify Clinical and Environmental Risk Factors for Common Chronic Diseases. American Journal of Epidemiology, 2019, 188, 1563-1568.	3.4	8
44	Signals Among Signals: Prioritizing Nongenetic Associations in Massive Data Sets. American Journal of Epidemiology, 2019, 188, 846-850.	3.4	13
45	Unprocessed Red Meat and Processed Meat Consumption: Dietary Guideline Recommendations From the Nutritional Recommendations (NutriRECS) Consortium. Annals of Internal Medicine, 2019, 171, 756.	3.9	227
46	Exposome-wide association study of semen quality: Systematic discovery of endocrine disrupting chemical biomarkers in fertility require large sample sizes. Environment International, 2019, 125, 505-514.	10.0	48
47	Trypsin-encoding <i>PRSS1-PRSS2</i> variations influence the risk of asparaginase-associated pancreatitis in children with acute lymphoblastic leukemia: a Ponte di Legno toxicity working group report. Haematologica, 2019, 104, 556-563.	3.5	36
48	Conducting a Reproducible Mendelian Randomization Analysis Using the R Analytic Statistical Environment. Current Protocols in Human Genetics, 2019, 101, e82.	3.5	45
49	Repurposing large health insurance claims data to estimate genetic and environmental contributions in 560 phenotypes. Nature Genetics, 2019, 51, 327-334.	21.4	52
50	The Exposome: An Approach Toward a Comprehensive Study of Exposures in Disease. , 2019, , 770-779.		1
51	Age-dependent co-dependency structure of biomarkers in the general population of the United States. Aging, 2019, 11, 1404-1426.	3.1	13
52	Exposome-Wide Association Studies: A Data-Driven Approach for Searching for Exposures Associated with Phenotype. , 2019, , 315-336.		2
53	Introduction to Environment and Exposome-Wide Association Studies: A Data-Driven Method to Identify Multiple Environmental Factors Associated with Phenotypes in Human Populations. , 2018, , 129-149.		3
54	In the Era of Precision Medicine and Big Data, Who Is Normal?. JAMA - Journal of the American Medical Association, 2018, 319, 1981.	7.4	76

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55	Leveraging Population-Based Clinical Quantitative Phenotyping for Drug Repositioning. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 124-129.	2.5	3
56	Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma. <i>Scientific Reports</i> , 2018, 8, 5437.	3.3	14
57	Systematic identification of correlates of HIV infection. <i>Aids</i> , 2018, 32, 933-943.	2.2	17
58	Rcupcake: an R package for querying and analyzing biomedical data through the BD2K PIC-SURE RESTful API. <i>Bioinformatics</i> , 2018, 34, 1431-1432.	4.1	4
59	Aether: leveraging linear programming for optimal cloud computing in genomics. <i>Bioinformatics</i> , 2018, 34, 1565-1567.	4.1	7
60	Integrated Analysis of Gene Expression Differences in Twins Discordant for Disease and Binary Phenotypes. <i>Scientific Reports</i> , 2018, 8, 17.	3.3	15
61	Model-Averaged Confounder Adjustment for Estimating Multivariate Exposure Effects with Linear Regression. <i>Biometrics</i> , 2018, 74, 1034-1044.	1.4	13
62	A review of validation strategies for computational drug repositioning. <i>Briefings in Bioinformatics</i> , 2018, 19, 174-177.	6.5	46
63	Informatics can help providers incorporate context into care. <i>JAMIA Open</i> , 2018, 1, 3-6.	2.0	6
64	CBMT-08. COMPARISON OF THREE METABOLIC PET RADIOTRACERS IN GLIOBLASTOMA: CELL CULTURE AND ANIMAL STUDIES. <i>Neuro-Oncology</i> , 2018, 20, vi34-vi34.	1.2	0
65	CBMT-03. A NOVEL METABOLIC PET TRACER STRATEGY TO DETERMINE EARLY EFFECTS OF TUMOR TREATING FIELDS (TTFIELDS). <i>Neuro-Oncology</i> , 2018, 20, vi32-vi33.	1.2	0
66	CBMT-07. EVALUATION OF GLYCOLYTIC RESPONSE TO SEVEN CLASSES OF ANTI-GLIOBLASTOMA DRUGS BY NON-INVASIVE MEASUREMENT OF PYRUVATE KINASE M2. <i>Neuro-Oncology</i> , 2018, 20, vi33-vi34.	1.2	0
67	Using Big Data to Determine Reference Values for Laboratory Tests—Reply. <i>JAMA - Journal of the American Medical Association</i> , 2018, 320, 1496.	7.4	3
68	Systematic detection of positive selection in the human-pathogen interactome and lasting effects on infectious disease susceptibility. <i>PLoS ONE</i> , 2018, 13, e0196676.	2.5	7
69	Toward Capturing the Exposome: Exposure Biomarker Variability and Coexposure Patterns in the Shared Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8801-8810.	10.0	40
70	Systematic correlation of environmental exposure and physiological and self-reported behaviour factors with leukocyte telomere length. <i>International Journal of Epidemiology</i> , 2017, 46, dyw043.	1.9	54
71	Informatics and Data Analytics to Support Exposome-Based Discovery for Public Health. <i>Annual Review of Public Health</i> , 2017, 38, 279-294.	17.4	97
72	Analytic Complexity and Challenges in Identifying Mixtures of Exposures Associated with Phenotypes in the Exposome Era. <i>Current Epidemiology Reports</i> , 2017, 4, 22-30.	2.4	49

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73	The Exposome Research Paradigm: an Opportunity to Understand the Environmental Basis for Human Health and Disease. <i>Current Environmental Health Reports</i> , 2017, 4, 89-98.	6.7	58
74	A standard database for drug repositioning. <i>Scientific Data</i> , 2017, 4, 170029.	5.3	224
75	Covariate selection for association screening in multiphenotype genetic studies. <i>Nature Genetics</i> , 2017, 49, 1789-1795.	21.4	27
76	Update on the State of the Science for Analytical Methods for Gene-Environment Interactions. <i>American Journal of Epidemiology</i> , 2017, 186, 762-770.	3.4	79
77	Opportunities and Challenges for Environmental Exposure Assessment in Population-Based Studies. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 1370-1380.	2.5	27
78	MeSHDD: Literature-based drug-drug similarity for drug repositioning. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017, 24, 614-618.	4.4	58
79	Current Challenges and New Opportunities for Gene-Environment Interaction Studies of Complex Diseases. <i>American Journal of Epidemiology</i> , 2017, 186, 753-761.	3.4	150
80	Perspective: Improving Nutritional Guidelines for Sustainable Health Policies: Current Status and Perspectives. <i>Advances in Nutrition</i> , 2017, 8, 532-545.	6.4	51
81	Common Genetic Variants in Trypsin Regulating Genes Are Associated with Asparaginase-Associated Pancreatitis in Children with Acute Lymphoblastic Leukemia: A Ponte Di Legno Toxicity Working Group Study. <i>Blood</i> , 2017, 130, 885-885.	1.4	0
82	Systematic assessment of pharmaceutical prescriptions in association with cancer risk: a method to conduct a population-wide medication-wide longitudinal study. <i>Scientific Reports</i> , 2016, 6, 31308.	3.3	28
83	Environment-Wide Association Study of Blood Pressure in the National Health and Nutrition Examination Survey (1999-2012). <i>Scientific Reports</i> , 2016, 6, 30373.	3.3	38
84	Comment: Addressing the Need for Portability in Big Data Model Building and Calibration. <i>Journal of the American Statistical Association</i> , 2016, 111, 127-129.	3.1	3
85	Perspective: Beyond the genome. <i>Nature</i> , 2016, 537, S105-S105.	27.8	5
86	Mendelian randomization study of adiposity-related traits and risk of breast, ovarian, prostate, lung and colorectal cancer. <i>International Journal of Epidemiology</i> , 2016, 45, 896-908.	1.9	124
87	A database of human exposomes and phenomes from the US National Health and Nutrition Examination Survey. <i>Scientific Data</i> , 2016, 3, 160096.	5.3	85
88	ksRepo: a generalized platform for computational drug repositioning. <i>BMC Bioinformatics</i> , 2016, 17, 78.	2.6	46
89	Comparative analyses of population-scale phenomic data in electronic medical records reveal race-specific disease networks. <i>Bioinformatics</i> , 2016, 32, i101-i110.	4.1	39
90	Analytical Complexity in Detection of Gene Variant-by-Environment Exposure Interactions in High-Throughput Genomic and Exposomic Research. <i>Current Environmental Health Reports</i> , 2016, 3, 64-72.	6.7	18

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91	Nutrient-wide association study of 57 foods/nutrients and epithelial ovarian cancer in the European Prospective Investigation into Cancer and Nutrition study and the Netherlands Cohort Study. American Journal of Clinical Nutrition, 2016, 103, 161-167.	4.7	29
92	Field-wide meta-analyses of observational associations can map selective availability of risk factors and the impact of model specifications. Journal of Clinical Epidemiology, 2016, 71, 58-67.	5.0	31
93	METHODS TO ENHANCE THE REPRODUCIBILITY OF PRECISION MEDICINE. , 2016, , .		2
94	Natural Language Processingâ€œEnabled and Conventional Data Capture Methods for Input to Electronic Health Records: A Comparative Usability Study. JMIR Medical Informatics, 2016, 4, e35.	2.6	43
95	REPRODUCIBLE AND SHAREABLE QUANTIFICATIONS OF PATHOGENICITY. , 2016, , .		2
96	METHODS TO ENHANCE THE REPRODUCIBILITY OF PRECISION MEDICINE. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 180-182.	0.7	6
97	Investigation of Dietary Factors and Endometrial Cancer Risk Using a Nutrient-wide Association Study Approach in the EPIC and Nurses' Health Study (NHS) and NHSII. Cancer Epidemiology Biomarkers and Prevention, 2015, 24, 466-471.	2.5	42
98	aRrayLasso: a network-based approach to microarray interconversion: Fig. 1.. Bioinformatics, 2015, 31, btv469.	4.1	0
99	Systematic Assessment of the Correlations of Household Income With Infectious, Biochemical, Physiological, and Environmental Factors in the United States, 1999â€œ2006. American Journal of Epidemiology, 2015, 181, 171-179.	3.4	36
100	Assessment of vibration of effects due to model specification can demonstrate the instability of observational associations. Journal of Clinical Epidemiology, 2015, 68, 1046-1058.	5.0	183
101	Development of exposome correlation globes to map out environment-wide associations. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2015, , 231-42.	0.7	31
102	Cancer Cluster Investigations: Review of the Past and Proposals for the Future. International Journal of Environmental Research and Public Health, 2014, 11, 1479-1499.	2.6	30
103	Disease Risk Factors Identified Through Shared Genetic Architecture and Electronic Medical Records. Science Translational Medicine, 2014, 6, 234ra57.	12.4	58
104	Placing epidemiological results in the context of multiplicity and typical correlations of exposures. Journal of Epidemiology and Community Health, 2014, 68, 1096-1100.	3.7	94
105	Studying the Elusive Environment in Large Scale. JAMA - Journal of the American Medical Association, 2014, 311, 2173.	7.4	94
106	Investigation of maternal environmental exposures in association with self-reported preterm birth. Reproductive Toxicology, 2014, 45, 1-7.	2.9	42
107	DEVELOPMENT OF EXPOSOME CORRELATION GLOBES TO MAP OUT ENVIRONMENT-WIDE ASSOCIATIONS. , 2014, , .		34
108	Systematic identification of interaction effects between genome- and environment-wide associations in type 2 diabetes mellitus. Human Genetics, 2013, 132, 495-508.	3.8	98

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109	A unique presentation, and management, of acute urinary retention in a young boy with underlying vesicoureteral reflux. <i>Journal of Surgical Case Reports</i> , 2013, 2013, rjt047-rjt047.	0.4	0
110	Analysis of the Genetic Basis of Disease in the Context of Worldwide Human Relationships and Migration. <i>PLoS Genetics</i> , 2013, 9, e1003447.	3.5	67
111	Systematic evaluation of environmental and behavioural factors associated with all-cause mortality in the United States National Health and Nutrition Examination Survey. <i>International Journal of Epidemiology</i> , 2013, 42, 1795-1810.	1.9	109
112	Diabetes Severity, Metabolic Syndrome, and the Risk of Erectile Dysfunction. <i>Journal of Sexual Medicine</i> , 2013, 10, 3102-3109.	0.6	52
113	Ethnic Differences in the Relationship Between Insulin Sensitivity and Insulin Response. <i>Diabetes Care</i> , 2013, 36, 1789-1796.	8.6	449
114	Whole genome sequencing in support of wellness and health maintenance. <i>Genome Medicine</i> , 2013, 5, 58.	8.2	46
115	Urinary Triclosan is Associated with Elevated Body Mass Index in NHANES. <i>PLoS ONE</i> , 2013, 8, e80057.	2.5	78
116	Systematic identification of interaction effects between validated genome- and environment-wide associations on Type 2 Diabetes Mellitus. <i>AMIA Summits on Translational Science Proceedings</i> , 2013, 2013, 135.	0.4	2
117	Data-driven integration of epidemiological and toxicological data to select candidate interacting genes and environmental factors in association with disease. <i>Bioinformatics</i> , 2012, 28, i121-i126.	4.1	28
118	A Nutrient-Wide Association Study on Blood Pressure. <i>Circulation</i> , 2012, 126, 2456-2464.	1.6	122
119	Systematic evaluation of environmental factors: persistent pollutants and nutrients correlated with serum lipid levels. <i>International Journal of Epidemiology</i> , 2012, 41, 828-843.	1.9	123
120	Genetic Variability in Molecular Responses to Chemical Exposure. <i>Exs</i> , 2012, 101, 437-457.	1.4	2
121	Predicting environmental chemical factors associated with disease-related gene expression data. <i>BMC Medical Genomics</i> , 2010, 3, 17.	1.5	24
122	An Environment-Wide Association Study (EWAS) on Type 2 Diabetes Mellitus. <i>PLoS ONE</i> , 2010, 5, e10746.	2.5	470
123	Use of Flexible Endoscopic Scissors to Cut Obstructing Suture Material in Gastric Bypass Patients. <i>Obesity Surgery</i> , 2008, 18, 336-339.	2.1	7