

# Imran Shah

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

4,129  
citations

201674

27  
h-index

197818

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4659  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CompTox Chemistry Dashboard: a community data resource for environmental chemistry. <i>Journal of Cheminformatics</i> , 2017, 9, 61.	6.1	674
2	The BioPAX community standard for pathway data sharing. <i>Nature Biotechnology</i> , 2010, 28, 935-942.	17.5	613
3	<i>In Vitro</i> Screening of Environmental Chemicals for Targeted Testing Prioritization: The ToxCast Project. <i>Environmental Health Perspectives</i> , 2010, 118, 485-492.	6.0	519
4	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. <i>Toxicological Sciences</i> , 2019, 169, 317-332.	3.1	225
5	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on <i>In Vitro</i> Assay Activity Across a Diverse Chemical and Assay Space. <i>Toxicological Sciences</i> , 2016, 152, 323-339.	3.1	171
6	Computational Toxicology—A State of the Science Mini Review. <i>Toxicological Sciences</i> , 2008, 103, 14-27.	3.1	152
7	Predicting Hepatotoxicity Using ToxCast <i>In Vitro</i> Bioactivity and Chemical Structure. <i>Chemical Research in Toxicology</i> , 2015, 28, 738-751.	3.3	124
8	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. <i>Environmental Health Perspectives</i> , 2020, 128, 27002.	6.0	120
9	Toxicokinetic Triage for Environmental Chemicals. <i>Toxicological Sciences</i> , 2015, 147, 55-67.	3.1	117
10	<i>In Vitro</i> and Modelling Approaches to Risk Assessment from the U.S. Environmental Protection Agency ToxCast Programme. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014, 115, 69-76.	2.5	114
11	Development of an Adverse Outcome Pathway From Drug-Mediated Bile Salt Export Pump Inhibition to Cholestatic Liver Injury. <i>Toxicological Sciences</i> , 2013, 136, 97-106.	3.1	111
12	Systems Toxicology: Real World Applications and Opportunities. <i>Chemical Research in Toxicology</i> , 2017, 30, 870-882.	3.3	93
13	Navigating through the minefield of read-across tools: A review of in silico tools for grouping. <i>Computational Toxicology</i> , 2017, 3, 1-18.	3.3	80
14	High-Throughput Transcriptomics Platform for Screening Environmental Chemicals. <i>Toxicological Sciences</i> , 2021, 181, 68-89.	3.1	79
15	Systematically evaluating read-across prediction and performance using a local validity approach characterized by chemical structure and bioactivity information. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 79, 12-24.	2.7	70
16	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. <i>Toxicological Sciences</i> , 2013, 131, 40-55.	3.1	67
17	Using ToxCast Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. <i>Environmental Health Perspectives</i> , 2016, 124, 910-919.	6.0	65
18	A comparison of machine learning algorithms for chemical toxicity classification using a simulated multi-scale data model. <i>BMC Bioinformatics</i> , 2008, 9, 241.	2.6	59

#	ARTICLE	IF	CITATIONS
19	Considerations for strategic use of high-throughput transcriptomics chemical screening data in regulatory decisions. <i>Current Opinion in Toxicology</i> , 2019, 15, 64-75.	5.0	58
20	Simulating Microdosimetry in a Virtual Hepatic Lobule. <i>PLoS Computational Biology</i> , 2010, 6, e1000756.	3.2	56
21	Predicting Organ Toxicity Using <i>in Vitro</i> Bioactivity Data and Chemical Structure. <i>Chemical Research in Toxicology</i> , 2017, 30, 2046-2059.	3.3	49
22	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. <i>PLoS ONE</i> , 2011, 6, e14584.	2.5	48
23	Virtual Tissues in Toxicology. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010, 13, 314-328.	6.5	47
24	Navigating through the minefield of read-across frameworks: A commentary perspective. <i>Computational Toxicology</i> , 2018, 6, 39-54.	3.3	44
25	Current approaches and future role of high content imaging in safety sciences and drug discovery. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 479-493.	1.5	42
26	Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 462-465.	1.5	33
27	High-throughput toxicogenomic screening of chemicals in the environment using metabolically competent hepatic cell cultures. <i>Npj Systems Biology and Applications</i> , 2021, 7, 7.	3.0	28
28	Simulating Quantitative Cellular Responses Using Asynchronous Threshold Boolean Network Ensembles. <i>BMC Systems Biology</i> , 2011, 5, 109.	3.0	27
29	Incorporating Biological, Chemical, and Toxicological Knowledge Into Predictive Models of Toxicity. <i>Toxicological Sciences</i> , 2012, 130, 440-441.	3.1	21
30	Transitioning the generalised read-across approach (GenRA) to quantitative predictions: A case study using acute oral toxicity data. <i>Computational Toxicology</i> , 2019, 12, 100097.	3.3	14
31	Extending the Generalised Read-Across approach (GenRA): A systematic analysis of the impact of physicochemical property information on read-across performance. <i>Computational Toxicology</i> , 2018, 8, 34-50.	3.3	13
32	Building Shared Experience to Advance Practical Application of Pathway-Based Toxicology: Liver Toxicity Mode-of-Action. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 500-19.	1.5	13
33	Pathway-Based Approaches for Environmental Monitoring and Risk Assessment. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10295-10296.	10.0	12
34	Generalized Read-Across prediction using genra-py. <i>Bioinformatics</i> , 2021, 37, 3380-3381.	4.1	12
35	Using pathway modules as targets for assay development in xenobiotic screening. <i>Molecular BioSystems</i> , 2012, 8, 531-542.	2.9	11
36	Systems Toxicology from Genes to Organs. <i>Methods in Molecular Biology</i> , 2013, 930, 375-397.	0.9	10

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37	Development of a Quantitative Model of Pregnane X Receptor (PXR) Mediated Xenobiotic Metabolizing Enzyme Induction. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1799-1819.	1.9	9
38	Pathway-Based Approaches for Environmental Monitoring and Risk Assessment. <i>Chemical Research in Toxicology</i> , 2016, 29, 1789-1790.	3.3	9
39	Quantitative prediction of repeat dose toxicity values using GenRA. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 109, 104480.	2.7	8
40	Repeat-dose toxicity prediction with Generalized Read-Across (GenRA) using targeted transcriptomic data: A proof-of-concept case study. <i>Computational Toxicology</i> , 2021, 19, 100171.	3.3	8
41	Heuristic search for metabolic engineering: de novo synthesis of vanillin. <i>Computers and Chemical Engineering</i> , 2005, 29, 499-507.	3.8	7
42	Estimating Hepatotoxic Doses Using High-Content Imaging in Primary Hepatocytes. <i>Toxicological Sciences</i> , 2021, 183, 285-301.	3.1	5
43	Evaluating adaptive stress response gene signatures using transcriptomics. <i>Computational Toxicology</i> , 2021, 20, 100179.	3.3	5
44	Reproducibility and robustness of high-throughput S1500+ transcriptomics on primary rat hepatocytes for chemical-induced hepatotoxicity assessment. <i>Current Research in Toxicology</i> , 2021, 2, 282-295.	2.7	3
45	Latent Variables Capture Pathway-Level Points of Departure in High-Throughput Toxicogenomic Data. <i>Chemical Research in Toxicology</i> , 2022, 35, 670-683.	3.3	3
46	Predicting molecular initiating events using chemical target annotations and gene expression. <i>BioData Mining</i> , 2022, 15, 7.	4.0	3