Imran Shah

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	2,908 citations	24 h-index	51 g-index
51 ext. papers	3,549 ext. citations	5.3 avg, IF	4.71 L-index

#	Paper	IF	Citations
46	The BioPAX community standard for pathway data sharing. *Nature Biotechnology*, **2010**, 28, 935-42	44.5	499
45	In vitro screening of environmental chemicals for targeted testing prioritization: the ToxCast project. *Environmental Health Perspectives*, **2010**, 118, 485-92	8.4	439
44	The CompTox Chemistry Dashboard: a community data resource for environmental chemistry. *Journal of Cheminformatics*, **2017**, 9, 61	8.6	352
43	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on In Vitro Assay Activity Across a Diverse Chemical and Assay Space. *Toxicological Sciences*, **2016**, 152, 323-39	4.4	125
42	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. *Toxicological Sciences*, **2019**, 169, 317-332	4.4	121
41	Computational toxicology--a state of the science mini review. *Toxicological Sciences*, **2008**, 103, 14-27	4.4	121
40	Predicting hepatotoxicity using ToxCast in vitro bioactivity and chemical structure. *Chemical Research in Toxicology*, **2015**, 28, 738-51	4	96
39	In vitro and modelling approaches to risk assessment from the U.S. Environmental Protection Agency ToxCast programme. *Basic and Clinical Pharmacology and Toxicology*, **2014**, 115, 69-76	3.1	96
38	Toxicokinetic Triage for Environmental Chemicals. *Toxicological Sciences*, **2015**, 147, 55-67	4.4	89
37	Development of an adverse outcome pathway from drug-mediated bile salt export pump inhibition to cholestatic liver injury. *Toxicological Sciences*, **2013**, 136, 97-106	4.4	88
36	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. *Environmental Health Perspectives*, **2020**, 128, 27002	8.4	70
35	Systems Toxicology: Real World Applications and Opportunities. *Chemical Research in Toxicology*, **2017**, 30, 870-882	4	64
34	In vitro perturbations of targets in cancer hallmark processes predict rodent chemical carcinogenesis. *Toxicological Sciences*, **2013**, 131, 40-55	4.4	60
33	Navigating through the minefield of read-across tools: A review of in silico tools for grouping. *Computational Toxicology*, **2017**, 3, 1-18	3.1	59
32	Using ToxCast Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. *Environmental Health Perspectives*, **2016**, 124, 910-9	8.4	55
31	A comparison of machine learning algorithms for chemical toxicity classification using a simulated multi-scale data model. *BMC Bioinformatics*, **2008**, 9, 241	3.6	51
30	Simulating microdosimetry in a virtual hepatic lobule. *PLoS Computational Biology*, **2010**, 6, e1000756	5	49

29	Systematically evaluating read-across prediction and performance using a local validity approach characterized by chemical structure and bioactivity information. *Regulatory Toxicology and Pharmacology*, **2016**, 79, 12-24	3.4	48
28	Using nuclear receptor activity to stratify hepatocarcinogens. *PLoS ONE*, **2011**, 6, e14584	3.7	43
27	Virtual tissues in toxicology. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews* , **2010**, 13, 314-28	8.6	43
26	Current approaches and future role of high content imaging in safety sciences and drug discovery. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 479-93	4.3	33
25	Predicting Organ Toxicity Using in Vitro Bioactivity Data and Chemical Structure. *Chemical Research in Toxicology*, **2017**, 30, 2046-2059	4	31
24	Simulating quantitative cellular responses using asynchronous threshold Boolean network ensembles. *BMC Systems Biology*, **2011**, 5, 109	3.5	25
23	Considerations for Strategic Use of High-Throughput Transcriptomics Chemical Screening Data in Regulatory Decisions. *Current Opinion in Toxicology*, **2019**, 15, 64-75	4.4	23
22	Navigating through the minefield of read-across frameworks: A commentary perspective. *Computational Toxicology*, **2018**, 6, 39-54	3.1	23
21	Incorporating biological, chemical, and toxicological knowledge into predictive models of toxicity. *Toxicological Sciences*, **2012**, 130, 440-1; author reply 442-3	4.4	20
20	High-Throughput Transcriptomics Platform for Screening Environmental Chemicals. *Toxicological Sciences*, **2021**, 181, 68-89	4.4	15
19	Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 462-465	4.3	14
18	Building shared experience to advance practical application of pathway-based toxicology: liver toxicity mode-of-action. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 500-19	4.3	11
17	Systems toxicology from genes to organs. *Methods in Molecular Biology*, **2013**, 930, 375-97	1.4	10
16	Pathway-Based Approaches for Environmental Monitoring and Risk Assessment. *Environmental Science & Technology*, **2016**, 50, 10295-10296	10.3	10
15	Extending the Generalised Read-Across approach (GenRA): A systematic analysis of the impact of physicochemical property information on read-across performance. *Computational Toxicology*, **2018** , 8, 34-50	3.1	9
14	Transitioning the Generalised Read-Across approach (GenRA) to quantitative predictions: A case study using acute oral toxicity data. *Computational Toxicology*, **2019**, 12, 100097-100097	3.1	8
13	Using pathway modules as targets for assay development in xenobiotic screening. *Molecular BioSystems*, **2012**, 8, 531-42		8
12	Development of a quantitative model of pregnane X receptor (PXR) mediated xenobiotic metabolizing enzyme induction. *Bulletin of Mathematical Biology*, **2010**, 72, 1799-819	2.1	8

11	High-throughput toxicogenomic screening of chemicals in the environment using metabolically competent hepatic cell cultures. *Npj Systems Biology and Applications*, **2021**, 7, 7	5	8
10	Heurstic search for metabolic engineering: de novo synthesis of vanillin. *Computers and Chemical Engineering*, **2005**, 29, 499-507	4	7
9	Quantitative prediction of repeat dose toxicity values using GenRA. *Regulatory Toxicology and Pharmacology*, **2019**, 109, 104480	3.4	3
8	Generalised Read-Across prediction using genra-py. *Bioinformatics*, **2021**,	7.2	2
7	Repeat-dose toxicity prediction with Generalized Read-Across (GenRA) using targeted transcriptomic data: A proof-of-concept case study. *Computational Toxicology*, **2021**, 19, 100171	3.1	2
6	Computational Tools for ADMET Profiling **2018**, 211-244		1
5	ToxCast: Predicting Toxicity Potential Through High-Throughput Bioactivity Profiling **2013**, 1-31		1
4	Evaluating adaptive stress response gene signatures using transcriptomics. *Computational Toxicology*, **2021**, 20, 100179	3.1	1
3	Predicting molecular initiating events using chemical target annotations and gene expression.. *BioData Mining*, **2022**, 15, 7	4.3	1
2	Estimating Hepatotoxic Doses Using High-Content Imaging in Primary Hepatocytes. *Toxicological Sciences*, **2021**, 183, 285-301	4.4	0
1	Reproducibility and robustness of high-throughput S1500+ transcriptomics on primary rat hepatocytes for chemical-induced hepatotoxicity assessment. *Current Research in Toxicology*, **2021**, 2, 282-295	2.7	0