Imran Shah

List of Publications by Year in descending order

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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	Latent Variables Capture Pathway-Level Points of Departure in High-Throughput Toxicogenomic Data. Chemical Research in Toxicology, 2022, 35, 670-683.	3.3	3
2	Predicting molecular initiating events using chemical target annotations and gene expression. BioData Mining, 2022, 15, 7.	4.0	3
3	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	3
4	High-throughput toxicogenomic screening of chemicals in the environment using metabolically competent hepatic cell cultures. Npj Systems Biology and Applications, 2021, 7, 7.	3.0	28
5	High-Throughput Transcriptomics Platform for Screening Environmental Chemicals. Toxicological Sciences, 2021, 181, 68-89.	3.1	79
6	Generalized Read-Across prediction using genra-py. Bioinformatics, 2021, 37, 3380-3381.	4.1	12
7	Estimating Hepatotoxic Doses Using High-Content Imaging in Primary Hepatocytes. Toxicological Sciences, 2021, 183, 285-301.	3.1	5
8	Repeat-dose toxicity prediction with Generalized Read-Across (GenRA) using targeted transcriptomic data: A proof-of-concept case study. Computational Toxicology, 2021, 19, 100171.	3.3	8
9	Evaluating adaptive stress response gene signatures using transcriptomics. Computational Toxicology, 2021, 20, 100179.	3.3	5
10	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. Environmental Health Perspectives, 2020, 128, 27002.	6.0	120
11	Transitioning the generalised read-across approach (GenRA) to quantitative predictions: A case study using acute oral toxicity data. Computational Toxicology, 2019, 12, 100097.	3.3	14
12	Quantitative prediction of repeat dose toxicity values using GenRA. Regulatory Toxicology and Pharmacology, 2019, 109, 104480.	2.7	8
13	Considerations for strategic use of high-throughput transcriptomics chemical screening data in regulatory decisions. Current Opinion in Toxicology, 2019, 15, 64-75.	5.0	58
14	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. Toxicological Sciences, 2019, 169, 317-332.	3.1	225
15	Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 462-465.	1.5	33
16	Navigating through the minefield of read-across frameworks: A commentary perspective. Computational Toxicology, 2018, 6, 39-54.	3.3	44
17	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.	3.3	13
18	Systems Toxicology: Real World Applications and Opportunities. Chemical Research in Toxicology, 2017, 30, 870-882.	3.3	93

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19	Navigating through the minefield of read-across tools: A review of in silico tools for grouping. Computational Toxicology, 2017, 3, 1-18.	3.3	80
20	Predicting Organ Toxicity Using in Vitro Bioactivity Data and Chemical Structure. Chemical Research in Toxicology, 2017, 30, 2046-2059.	3.3	49
21	The CompTox Chemistry Dashboard: a community data resource for environmental chemistry. Journal of Cheminformatics, 2017, 9, 61.	6.1	674
22	Using ToxCastâ„¢ Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. Environmental Health Perspectives, 2016, 124, 910-919.	6.0	65
23	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity onIn VitroAssay Activity Across a Diverse Chemical and Assay Space. Toxicological Sciences, 2016, 152, 323-339.	3.1	171
24	Pathway-Based Approaches for Environmental Monitoring and Risk Assessment. Environmental Science & Technology, 2016, 50, 10295-10296.	10.0	12
25	Pathway-Based Approaches for Environmental Monitoring and Risk Assessment. Chemical Research in Toxicology, 2016, 29, 1789-1790.	3.3	9
26	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.	2.7	70
27	Predicting Hepatotoxicity Using ToxCast in Vitro Bioactivity and Chemical Structure. Chemical Research in Toxicology, 2015, 28, 738-751.	3.3	124
28	Toxicokinetic Triage for Environmental Chemicals. Toxicological Sciences, 2015, 147, 55-67.	3.1	117
29	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.	2.5	114
30	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.	1.5	13
31	Current approaches and future role of high content imaging in safety sciences and drug discovery. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 479-493.	1.5	42
32	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. Toxicological Sciences, 2013, 131, 40-55.	3.1	67
33	Development of an Adverse Outcome Pathway From Drug-Mediated Bile Salt Export Pump Inhibition to Cholestatic Liver Injury. Toxicological Sciences, 2013, 136, 97-106.	3.1	111
34	Systems Toxicology from Genes to Organs. Methods in Molecular Biology, 2013, 930, 375-397.	0.9	10
35	Incorporating Biological, Chemical, and Toxicological Knowledge Into Predictive Models of Toxicity. Toxicological Sciences, 2012, 130, 440-441.	3.1	21
36	Using pathway modules as targets for assay development in xenobiotic screening. Molecular BioSystems, 2012, 8, 531-542.	2.9	11

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37	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. PLoS ONE, 2011, 6, e14584.	2.5	48
38	Simulating Quantitative Cellular Responses Using Asynchronous Threshold Boolean Network Ensembles. BMC Systems Biology, 2011, 5, 109.	3.0	27
39	Development of a Quantitative Model of Pregnane X Receptor (PXR) Mediated Xenobiotic Metabolizing Enzyme Induction. Bulletin of Mathematical Biology, 2010, 72, 1799-1819.	1.9	9
40	The BioPAX community standard for pathway data sharing. Nature Biotechnology, 2010, 28, 935-942.	17.5	613
41	In Vitro Screening of Environmental Chemicals for Targeted Testing Prioritization: The ToxCast Project. Environmental Health Perspectives, 2010, 118, 485-492.	6.0	519
42	Virtual Tissues in Toxicology. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 314-328.	6.5	47
43	Simulating Microdosimetry in a Virtual Hepatic Lobule. PLoS Computational Biology, 2010, 6, e1000756.	3.2	56
44	A comparison of machine learning algorithms for chemical toxicity classification using a simulated multi-scale data model. BMC Bioinformatics, 2008, 9, 241.	2.6	59
45	Computational Toxicologyâ€"A State of the Science Mini Review. Toxicological Sciences, 2008, 103, 14-27.	3.1	152
46	Heurstic search for metabolic engineering: de novo synthesis of vanillin. Computers and Chemical Engineering, 2005, 29, 499-507.	3.8	7