John F Wambaugh

List of Publications by Year
in descending order

88	6,846	61984	62596
		43	80
papers	citations	h-index	g-index

96	96	96	5011
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	IVIVE: Facilitating the Use of In Vitro Toxicity Data in Risk Assessment and Decision Making. Toxics, 2022, 10, 232.	3.7	35
2	Quantitative in vitro to in vivo extrapolation for developmental toxicity potency of valproic acid analogues. Birth Defects Research, 2022, 114, 1037-1055.	1.5	4
3	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
4	Designing QSARs for Parameters of High-Throughput Toxicokinetic Models Using Open-Source Descriptors. Environmental Science & Technology, 2021, 55, 6505-6517.	10.0	27
5	High-throughput PBTK models for <i>in vitro</i> to <i>in vivo</i> extrapolation. Expert Opinion on Drug Metabolism and Toxicology, 2021, 17, 903-921.	3.3	42
6	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
7	Chemical Characterization of Recycled Consumer Products Using Suspect Screening Analysis. Environmental Science & Technology, 2021, 55, 11375-11387.	10.0	30
8	GRADE Guidelines 30: the GRADE approach to assessing the certaintyÂof modeled evidenceâ€"An overview in the context of healthÂdecision-making. Journal of Clinical Epidemiology, 2021, 129, 138-150.	5.0	81
9	Predicting compound amenability with liquid chromatography-mass spectrometry to improve non-targeted analysis. Analytical and Bioanalytical Chemistry, 2021, 413, 7495-7508.	3.7	12
10	Incorporating human exposure information in a weight of evidence approach to inform design of repeated dose animal studies. Regulatory Toxicology and Pharmacology, 2021, 127, 105073.	2.7	2
11	Opportunities and challenges related to saturation of toxicokinetic processes: Implications for risk assessment. Regulatory Toxicology and Pharmacology, 2021, 127, 105070.	2.7	10
12	Toxicity testing in the 21st century: progress in the past decade and future perspectives. Archives of Toxicology, 2020, 94, 1-58.	4.2	209
13	Using chemical structure information to develop predictive models for in vitro toxicokinetic parameters to inform high-throughput risk-assessment. Computational Toxicology, 2020, 16, 100136.	3.3	22
14	PBPK model reporting template for chemical risk assessment applications. Regulatory Toxicology and Pharmacology, 2020, 115, 104691.	2.7	33
15	Pharmacokinetic profile of Perfluorobutane Sulfonate and activation of hepatic nuclear receptor target genes in mice. Toxicology, 2020, 441, 152522.	4.2	9
16	Development and evaluation of a high throughput inhalation model for organic chemicals. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 866-877.	3.9	13
17	New Approach Methods to Evaluate Health Risks of Air Pollutants: Critical Design Considerations for In Vitro Exposure Testing. International Journal of Environmental Research and Public Health, 2020, 17, 2124.	2.6	51
18	High-throughput screening tools facilitate calculation of a combined exposure-bioactivity index for chemicals with endocrine activity. Environment International, 2020, 137, 105470.	10.0	10

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19	Database of pharmacokinetic time-series data and parameters for 144 environmental chemicals. Scientific Data, 2020, 7, 122.	5.3	33
20	Advancing internal exposure and physiologically-based toxicokinetic modeling for 21st-century risk assessments. Journal of Exposure Science and Environmental Epidemiology, 2019, 29, 11-20.	3.9	45
21	New approach methodologies for exposure science. Current Opinion in Toxicology, 2019, 15, 76-92.	5.0	46
22	Assessing Toxicokinetic Uncertainty and Variability in Risk Prioritization. Toxicological Sciences, 2019, 172, 235-251.	3.1	40
23	Challenges in working towards an internal threshold of toxicological concern (iTTC) for use in the safety assessment of cosmetics: Discussions from the Cosmetics Europe iTTC Working Group workshop. Regulatory Toxicology and Pharmacology, 2019, 103, 63-72.	2.7	30
24	Using the concordance of in vitro and in vivo data to evaluate extrapolation assumptions. PLoS ONE, 2019, 14, e0217564.	2.5	37
25	Empirical models for anatomical and physiological changes in a human mother and fetus during pregnancy and gestation. PLoS ONE, 2019, 14, e0215906.	2.5	30
26	Estimating uncertainty in the context of new approach methodologies for potential use in chemical safety evaluation. Current Opinion in Toxicology, 2019, 15, 40-47.	5.0	14
27	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. Toxicological Sciences, 2019, 169, 317-332.	3.1	225
28	Consensus Modeling of Median Chemical Intake for the U.S. Population Based on Predictions of Exposure Pathways. Environmental Science & Technology, 2019, 53, 719-732.	10.0	78
29	Defining toxicological tipping points in neuronal network development. Toxicology and Applied Pharmacology, 2018, 354, 81-93.	2.8	26
30	Evaluating In Vitro-In Vivo Extrapolation of Toxicokinetics. Toxicological Sciences, 2018, 163, 152-169.	3.1	98
31	Suspect Screening Analysis of Chemicals in Consumer Products. Environmental Science & Technology, 2018, 52, 3125-3135.	10.0	88
32	Integrating tools for non-targeted analysis research and chemical safety evaluations at the US EPA. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 411-426.	3.9	148
33	High-throughput in-silico prediction of ionization equilibria for pharmacokinetic modeling. Science of the Total Environment, 2018, 615, 150-160.	8.0	19
34	In vitro to in vivo extrapolation for high throughput prioritization and decision making. Toxicology in Vitro, 2018, 47, 213-227.	2.4	162
35	Comment on: Dong et al. (2017) â€œIssues raised by the reference doses for perfluorooctonate sulfonate and perfluorooctanoic acid.â€ Environment International, 2018, 121, 1372-1374.	10.0	3
36	Advancements in Life Cycle Human Exposure and Toxicity Characterization. Environmental Health Perspectives, 2018, 126, 125001.	6.0	44

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#	Article	IF	Citations
37	Free access platforms for integrating environmental chemical exposure and hazard information. Toxicology Letters, 2018, 295, S29.	0.8	0
38	Rapid experimental measurements of physicochemical properties to inform models and testing. Science of the Total Environment, 2018, 636, 901-909.	8.0	17
39	Utilizing Threshold of Toxicological Concern (TTC) with high throughput exposure predictions (HTE) as a risk-based prioritization approach for thousands of chemicals. Computational Toxicology, 2018, 7, 58-67.	3.3	53
40	From the exposome to mechanistic understanding of chemical-induced adverse effects. Environment International, 2017, 99, 97-106.	10.0	146
41	High-throughput screening of chemicals as functional substitutes using structure-based classification models. Green Chemistry, 2017, 19, 1063-1074.	9.0	66
42	Evaluation and calibration of high-throughput predictions of chemical distribution to tissues. Journal of Pharmacokinetics and Pharmacodynamics, 2017, 44, 549-565.	1.8	32
43	High-throughput dietary exposure predictions for chemical migrants from food contact substances for use in chemical prioritization. Environment International, 2017, 108, 185-194.	10.0	40
44	An Intuitive Approach for Predicting Potential Human Health Risk with the Tox21 10k Library. Environmental Science & Technology, 2017, 51, 10786-10796.	10.0	120
45	Identifying populations sensitive to environmental chemicals by simulating toxicokinetic variability. Environment International, 2017, 106, 105-118.	10.0	80
46	The CompTox Chemistry Dashboard: a community data resource for environmental chemistry. Journal of Cheminformatics, 2017, 9, 61.	6.1	674
47	A Method for Identifying Prevalent Chemical Combinations in the U.S. Population. Environmental Health Perspectives, 2017, 125, 087017.	6.0	50
48	httk: <i>R</i> Package for High-Throughput Toxicokinetics. Journal of Statistical Software, 2017, 79, 1-26.	3.7	256
49	Computational Exposure Science: An Emerging Discipline to Support 21st-Century Risk Assessment. Environmental Health Perspectives, 2016, 124, 697-702.	6.0	74
50	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. Chemical Research in Toxicology, 2016, 29, 1225-1251.	3.3	456
51	Development of a quantitative morphological assessment of toxicant‐treated zebrafish larvae using brightfield imaging and high‐content analysis. Journal of Applied Toxicology, 2016, 36, 1214-1222.	2.8	5
52	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. Toxicological Sciences, 2016, 152, 323-339.	3.1	171
53	Characterization and prediction of chemical functions and weight fractions in consumer products. Toxicology Reports, 2016, 3, 723-732.	3.3	49
54	Linking high resolution mass spectrometry data with exposure and toxicity forecasts to advance high-throughput environmental monitoring. Environment International, 2016, 88, 269-280.	10.0	143

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55	A Liver-Centric Multiscale Modeling Framework for Xenobiotics. PLoS ONE, 2016, 11, e0162428.	2.5	44
56	Incorporating High-Throughput Exposure Predictions With Dosimetry-Adjusted *In Vitro* Bioactivity to Inform Chemical Toxicity Testing. Toxicological Sciences, 2015, 148, 121-136.	3.1	190
57	Exploring consumer exposure pathways and patterns of use for chemicals in the environment. Toxicology Reports, 2015, 2, 228-237.	3.3	113
58	Toxicokinetic Triage for Environmental Chemicals. Toxicological Sciences, 2015, 147, 55-67.	3.1	117
59	Identifiability of PBPK models with applications to dimethylarsinic acid exposure. Journal of Pharmacokinetics and Pharmacodynamics, 2015, 42, 591-609.	1.8	16
60	Dosimetric Anchoring of Toxicological Studies. Molecular and Integrative Toxicology, 2015, , 337-361.	0.5	0
61	Incorporating Population Variability and Susceptible Subpopulations into Dosimetry for High-Throughput Toxicity Testing. Toxicological Sciences, 2014, 142, 210-224.	3.1	71
62	*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
63	Development of a consumer product ingredient database for chemical exposure screening and prioritization. Food and Chemical Toxicology, 2014, 65, 269-279.	3.6	79
64	High Throughput Heuristics for Prioritizing Human Exposure to Environmental Chemicals. Environmental Science & Technology, 2014, 48, 12760-12767.	10.0	185
65	Comparison of modeling approaches to prioritize chemicals based on estimates of exposure and exposure potential. Science of the Total Environment, 2013, 458-460, 555-567.	8.0	49
66	High-Throughput Models for Exposure-Based Chemical Prioritization in the ExpoCast Project. Environmental Science & Technology, 2013, 47, 130711145716006.	10.0	132
67	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. Toxicological Sciences, 2013, 136, 308-327.	3.1	44
68	Relative Impact of Incorporating Pharmacokinetics on Predicting In Vivo Hazard and Mode of Action from High-Throughput In Vitro Toxicity Assays. Toxicological Sciences, 2013, 132, 327-346.	3.1	104
69	Systems Toxicology from Genes to Organs. Methods in Molecular Biology, 2013, 930, 375-397.	0.9	10
70	Response to "Accurate Risk-Based Chemical Screening * Relies on Robust Exposure Estimates". Toxicological Sciences, 2012, 128, 297-299.	3.1	0
71	Integration of Dosimetry, Exposure, and High-Throughput Screening Data in Chemical Toxicity Assessment. Toxicological Sciences, 2012, 125, 157-174.	3.1	336
72	Incorporating exposure information into the toxicological prioritization index decision support framework. Science of the Total Environment, 2012, 435-436, 316-325.	8.0	32

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73	Modeling In Vitro Cell-Based Assays Experiments. Developments in Environmental Modelling, 2012, 25, 51-71.	0.3	3
74	P68â€"Parsimonious development of a physiologically based pharmacokinetic model for PFOA. Reproductive Toxicology, 2012, 33, 624.	2.9	0
75	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. PLoS ONE, 2011, 6, e14584.	2.5	48
76	Simulating Quantitative Cellular Responses Using Asynchronous Threshold Boolean Network Ensembles. BMC Systems Biology, 2011, 5, 109.	3.0	27
77	Comparative pharmacokinetics of perfluorononanoic acid in rat and mouse. Toxicology, 2011, 281, 48-55.	4.2	65
78	Force networks and elasticity in granular silos. European Physical Journal E, 2010, 32, 135-145.	1.6	17
79	Simple models for granular force networks. Physica D: Nonlinear Phenomena, 2010, 239, 1818-1826.	2.8	9
80	Virtual Tissues in Toxicology. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 314-328.	6.5	47
81	Simulating Microdosimetry in a Virtual Hepatic Lobule. PLoS Computational Biology, 2010, 6, e1000756.	3.2	56
82	Incorporating Human Dosimetry and Exposure into High-Throughput *In Vitro* Toxicity Screening. Toxicological Sciences, 2010, 117, 348-358.	3.1	222
83	Modeling Single and Repeated Dose Pharmacokinetics of PFOA in Mice. Toxicological Sciences, 2009, 107, 331-341.	3.1	89
84	Comparing models for perfluorooctanoic acid pharmacokinetics using Bayesian analysis. Journal of Pharmacokinetics and Pharmacodynamics, 2008, 35, 683-712.	1.8	14
85	Response to perturbations for granular flow in a hopper. Physical Review E, 2007, 76, 051303.	2.1	7
86	Shear and loading in channels: Oscillatory shearing and edge currents of superconducting vortices. Physical Review B, 2003, 67, .	3.2	6
87	Ratchet-induced segregation and transport of nonspherical grains. Physical Review E, 2002, 65, 031308.	2.1	28
88	Superconducting Fluxon Pumps and Lenses. Physical Review Letters, 1999, 83, 5106-5109.	7.8	222