

John F Wambaugh

List of Publications by Year in descending order

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88
papers

6,846
citations

61984

43
h-index

62596

80
g-index

96
all docs

96
docs citations

96
times ranked

5011
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	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. <i>Chemical Research in Toxicology</i> , 2016, 29, 1225-1251.	3.3	456
3	Integration of Dosimetry, Exposure, and High-Throughput Screening Data in Chemical Toxicity Assessment. <i>Toxicological Sciences</i> , 2012, 125, 157-174.	3.1	336
4	R Package for High-Throughput Toxicokinetics . <i>Journal of Statistical Software</i> , 2017, 79, 1-26.	3.7	256
5	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
6	Superconducting Fluxon Pumps and Lenses. <i>Physical Review Letters</i> , 1999, 83, 5106-5109.	7.8	222
7	Incorporating Human Dosimetry and Exposure into High-Throughput <i>In Vitro</i> Toxicity Screening. <i>Toxicological Sciences</i> , 2010, 117, 348-358.	3.1	222
8	Toxicity testing in the 21st century: progress in the past decade and future perspectives. <i>Archives of Toxicology</i> , 2020, 94, 1-58.	4.2	209
9	Incorporating High-Throughput Exposure Predictions With Dosimetry-Adjusted <i>In Vitro</i> Bioactivity to Inform Chemical Toxicity Testing. <i>Toxicological Sciences</i> , 2015, 148, 121-136.	3.1	190
10	High Throughput Heuristics for Prioritizing Human Exposure to Environmental Chemicals. <i>Environmental Science & Technology</i> , 2014, 48, 12760-12767.	10.0	185
11	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
12	In vitro to in vivo extrapolation for high throughput prioritization and decision making. <i>Toxicology in Vitro</i> , 2018, 47, 213-227.	2.4	162
13	Integrating tools for non-targeted analysis research and chemical safety evaluations at the US EPA. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 411-426.	3.9	148
14	From the exposome to mechanistic understanding of chemical-induced adverse effects. <i>Environment International</i> , 2017, 99, 97-106.	10.0	146
15	Linking high resolution mass spectrometry data with exposure and toxicity forecasts to advance high-throughput environmental monitoring. <i>Environment International</i> , 2016, 88, 269-280.	10.0	143
16	High-Throughput Models for Exposure-Based Chemical Prioritization in the ExpoCast Project. <i>Environmental Science & Technology</i> , 2013, 47, 130711145716006.	10.0	132
17	An Intuitive Approach for Predicting Potential Human Health Risk with the Tox21 10k Library. <i>Environmental Science & Technology</i> , 2017, 51, 10786-10796.	10.0	120
18	Toxicokinetic Triage for Environmental Chemicals. <i>Toxicological Sciences</i> , 2015, 147, 55-67.	3.1	117

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19	<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
20	Exploring consumer exposure pathways and patterns of use for chemicals in the environment. <i>Toxicology Reports</i> , 2015, 2, 228-237.	3.3	113
21	Relative Impact of Incorporating Pharmacokinetics on Predicting In Vivo Hazard and Mode of Action from High-Throughput In Vitro Toxicity Assays. <i>Toxicological Sciences</i> , 2013, 132, 327-346.	3.1	104
22	Evaluating In Vitro-In Vivo Extrapolation of Toxicokinetics. <i>Toxicological Sciences</i> , 2018, 163, 152-169.	3.1	98
23	Modeling Single and Repeated Dose Pharmacokinetics of PFOA in Mice. <i>Toxicological Sciences</i> , 2009, 107, 331-341.	3.1	89
24	Suspect Screening Analysis of Chemicals in Consumer Products. <i>Environmental Science & Technology</i> , 2018, 52, 3125-3135.	10.0	88
25	GRADE Guidelines 30: the GRADE approach to assessing the certainty of modeled evidence – An overview in the context of health decision-making. <i>Journal of Clinical Epidemiology</i> , 2021, 129, 138-150.	5.0	81
26	Identifying populations sensitive to environmental chemicals by simulating toxicokinetic variability. <i>Environment International</i> , 2017, 106, 105-118.	10.0	80
27	Development of a consumer product ingredient database for chemical exposure screening and prioritization. <i>Food and Chemical Toxicology</i> , 2014, 65, 269-279.	3.6	79
28	Consensus Modeling of Median Chemical Intake for the U.S. Population Based on Predictions of Exposure Pathways. <i>Environmental Science & Technology</i> , 2019, 53, 719-732.	10.0	78
29	Computational Exposure Science: An Emerging Discipline to Support 21st-Century Risk Assessment. <i>Environmental Health Perspectives</i> , 2016, 124, 697-702.	6.0	74
30	Incorporating Population Variability and Susceptible Subpopulations into Dosimetry for High-Throughput Toxicity Testing. <i>Toxicological Sciences</i> , 2014, 142, 210-224.	3.1	71
31	High-throughput screening of chemicals as functional substitutes using structure-based classification models. <i>Green Chemistry</i> , 2017, 19, 1063-1074.	9.0	66
32	Comparative pharmacokinetics of perfluorononanoic acid in rat and mouse. <i>Toxicology</i> , 2011, 281, 48-55.	4.2	65
33	Simulating Microdosimetry in a Virtual Hepatic Lobule. <i>PLoS Computational Biology</i> , 2010, 6, e1000756.	3.2	56
34	Utilizing Threshold of Toxicological Concern (TTC) with high throughput exposure predictions (HTE) as a risk-based prioritization approach for thousands of chemicals. <i>Computational Toxicology</i> , 2018, 7, 58-67.	3.3	53
35	New Approach Methods to Evaluate Health Risks of Air Pollutants: Critical Design Considerations for In Vitro Exposure Testing. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2124.	2.6	51
36	A Method for Identifying Prevalent Chemical Combinations in the U.S. Population. <i>Environmental Health Perspectives</i> , 2017, 125, 087017.	6.0	50

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37	Comparison of modeling approaches to prioritize chemicals based on estimates of exposure and exposure potential. <i>Science of the Total Environment</i> , 2013, 458-460, 555-567.	8.0	49
38	Characterization and prediction of chemical functions and weight fractions in consumer products. <i>Toxicology Reports</i> , 2016, 3, 723-732.	3.3	49
39	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. <i>PLoS ONE</i> , 2011, 6, e14584.	2.5	48
40	Virtual Tissues in Toxicology. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010, 13, 314-328.	6.5	47
41	New approach methodologies for exposure science. <i>Current Opinion in Toxicology</i> , 2019, 15, 76-92.	5.0	46
42	Advancing internal exposure and physiologically-based toxicokinetic modeling for 21st-century risk assessments. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 11-20.	3.9	45
43	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. <i>Toxicological Sciences</i> , 2013, 136, 308-327.	3.1	44
44	Advancements in Life Cycle Human Exposure and Toxicity Characterization. <i>Environmental Health Perspectives</i> , 2018, 126, 125001.	6.0	44
45	A Liver-Centric Multiscale Modeling Framework for Xenobiotics. <i>PLoS ONE</i> , 2016, 11, e0162428.	2.5	44
46	High-throughput PBTK models for <i>in vitro</i> to <i>in vivo</i> extrapolation. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2021, 17, 903-921.	3.3	42
47	High-throughput dietary exposure predictions for chemical migrants from food contact substances for use in chemical prioritization. <i>Environment International</i> , 2017, 108, 185-194.	10.0	40
48	Assessing Toxicokinetic Uncertainty and Variability in Risk Prioritization. <i>Toxicological Sciences</i> , 2019, 172, 235-251.	3.1	40
49	Using the concordance of in vitro and in vivo data to evaluate extrapolation assumptions. <i>PLoS ONE</i> , 2019, 14, e0217564.	2.5	37
50	IVIVE: Facilitating the Use of In Vitro Toxicity Data in Risk Assessment and Decision Making. <i>Toxics</i> , 2022, 10, 232.	3.7	35
51	PBPK model reporting template for chemical risk assessment applications. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 115, 104691.	2.7	33
52	Database of pharmacokinetic time-series data and parameters for 144 environmental chemicals. <i>Scientific Data</i> , 2020, 7, 122.	5.3	33
53	Incorporating exposure information into the toxicological prioritization index decision support framework. <i>Science of the Total Environment</i> , 2012, 435-436, 316-325.	8.0	32
54	Evaluation and calibration of high-throughput predictions of chemical distribution to tissues. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2017, 44, 549-565.	1.8	32

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55	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. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 103, 63-72.	2.7	30
56	Empirical models for anatomical and physiological changes in a human mother and fetus during pregnancy and gestation. <i>PLoS ONE</i> , 2019, 14, e0215906.	2.5	30
57	Chemical Characterization of Recycled Consumer Products Using Suspect Screening Analysis. <i>Environmental Science & Technology</i> , 2021, 55, 11375-11387.	10.0	30
58	Ratchet-induced segregation and transport of nonspherical grains. <i>Physical Review E</i> , 2002, 65, 031308.	2.1	28
59	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
60	Simulating Quantitative Cellular Responses Using Asynchronous Threshold Boolean Network Ensembles. <i>BMC Systems Biology</i> , 2011, 5, 109.	3.0	27
61	Designing QSARs for Parameters of High-Throughput Toxicokinetic Models Using Open-Source Descriptors. <i>Environmental Science & Technology</i> , 2021, 55, 6505-6517.	10.0	27
62	Defining toxicological tipping points in neuronal network development. <i>Toxicology and Applied Pharmacology</i> , 2018, 354, 81-93.	2.8	26
63	Using chemical structure information to develop predictive models for in vitro toxicokinetic parameters to inform high-throughput risk-assessment. <i>Computational Toxicology</i> , 2020, 16, 100136.	3.3	22
64	High-throughput in-silico prediction of ionization equilibria for pharmacokinetic modeling. <i>Science of the Total Environment</i> , 2018, 615, 150-160.	8.0	19
65	Force networks and elasticity in granular silos. <i>European Physical Journal E</i> , 2010, 32, 135-145.	1.6	17
66	Rapid experimental measurements of physicochemical properties to inform models and testing. <i>Science of the Total Environment</i> , 2018, 636, 901-909.	8.0	17
67	Identifiability of PBPK models with applications to dimethylarsinic acid exposure. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2015, 42, 591-609.	1.8	16
68	Comparing models for perfluorooctanoic acid pharmacokinetics using Bayesian analysis. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2008, 35, 683-712.	1.8	14
69	Estimating uncertainty in the context of new approach methodologies for potential use in chemical safety evaluation. <i>Current Opinion in Toxicology</i> , 2019, 15, 40-47.	5.0	14
70	Development and evaluation of a high throughput inhalation model for organic chemicals. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 866-877.	3.9	13
71	Predicting compound amenability with liquid chromatography-mass spectrometry to improve non-targeted analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7495-7508.	3.7	12
72	High-throughput screening tools facilitate calculation of a combined exposure-bioactivity index for chemicals with endocrine activity. <i>Environment International</i> , 2020, 137, 105470.	10.0	10

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73	Systems Toxicology from Genes to Organs. <i>Methods in Molecular Biology</i> , 2013, 930, 375-397.	0.9	10
74	Opportunities and challenges related to saturation of toxicokinetic processes: Implications for risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 127, 105070.	2.7	10
75	Simple models for granular force networks. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1818-1826.	2.8	9
76	Pharmacokinetic profile of Perfluorobutane Sulfonate and activation of hepatic nuclear receptor target genes in mice. <i>Toxicology</i> , 2020, 441, 152522.	4.2	9
77	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
78	Response to perturbations for granular flow in a hopper. <i>Physical Review E</i> , 2007, 76, 051303.	2.1	7
79	Shear and loading in channels: Oscillatory shearing and edge currents of superconducting vortices. <i>Physical Review B</i> , 2003, 67, .	3.2	6
80	Development of a quantitative morphological assessment of toxicant-treated zebrafish larvae using brightfield imaging and high-content analysis. <i>Journal of Applied Toxicology</i> , 2016, 36, 1214-1222.	2.8	5
81	Quantitative in vitro to in vivo extrapolation for developmental toxicity potency of valproic acid analogues. <i>Birth Defects Research</i> , 2022, 114, 1037-1055.	1.5	4
82	Modeling In Vitro Cell-Based Assays Experiments. <i>Developments in Environmental Modelling</i> , 2012, 25, 51-71.	0.3	3
83	Comment on: Dong et al. (2017) "Issues raised by the reference doses for perfluorooctonate sulfonate and perfluorooctanoic acid." <i>Environment International</i> , 2018, 121, 1372-1374.	10.0	3
84	Incorporating human exposure information in a weight of evidence approach to inform design of repeated dose animal studies. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 127, 105073.	2.7	2
85	Response to "Accurate Risk-Based Chemical Screening * Relies on Robust Exposure Estimates". <i>Toxicological Sciences</i> , 2012, 128, 297-299.	3.1	0
86	Parsimonious development of a physiologically based pharmacokinetic model for PFOA. <i>Reproductive Toxicology</i> , 2012, 33, 624.	2.9	0
87	Free access platforms for integrating environmental chemical exposure and hazard information. <i>Toxicology Letters</i> , 2018, 295, S29.	0.8	0
88	Dosimetric Anchoring of Toxicological Studies. <i>Molecular and Integrative Toxicology</i> , 2015, , 337-361.	0.5	0