

David M Reif

List of Publications by Year in Descending Order

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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.

125 papers	6,002 citations	43 h-index	76 g-index
137 ext. papers	6,845 ext. citations	5.6 avg, IF	5.52 L-index

#	Paper	IF	Citations
125	Demonstrating a systems approach for integrating disparate data streams to inform decisions on children's environmental health.. <i>BMC Public Health</i> , 2022 , 22, 313	4.1	0
124	Implementation of Zebrafish Ontologies for Toxicology Screening.. <i>Frontiers in Toxicology</i> , 2022 , 4, 817998	12.8	1
123	Systematic developmental toxicity assessment of a structurally diverse library of PFAS in zebrafish.. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128615	2.5	1
122	Leveraging a High-Throughput Screening Method to Identify Mechanisms of Individual Susceptibility Differences in a Genetically Diverse Zebrafish Model.. <i>Frontiers in Toxicology</i> , 2022 , 4, 846221	2.2	4
121	Comparison of National Vulnerability Indices Used by the Centers for Disease Control and Prevention for the COVID-19 Response.. <i>Public Health Reports</i> , 2022 , 333549221090262	4.7	1
120	Development of a Pandemic Awareness STEM Outreach Curriculum: Utilizing a Computational Thinking Taxonomy Framework. <i>Education Sciences</i> , 2021 , 11,	7.8	5
119	Uncovering Evidence for Endocrine-Disrupting Chemicals That Elicit Differential Susceptibility through Gene-Environment Interactions. <i>Toxics</i> , 2021 , 9,	1.6	2
118	Multimic Big Data Analysis Challenges: Increasing Confidence in the Interpretation of Artificial Intelligence Assessments. <i>Analytical Chemistry</i> , 2021 , 93, 7763-7773	2.6	6
117	Concurrent Evaluation of Mortality and Behavioral Responses: A Fast and Efficient Testing Approach for High-Throughput Chemical Hazard Identification.. <i>Frontiers in Toxicology</i> , 2021 , 3, 670496	8.4	27
116	Extending the lymphoblastoid cell line model for drug combination pharmacogenomics. <i>Pharmacogenomics</i> , 2021 , 22, 543-551	6	1
115	Leveraging high-throughput screening data, deep neural networks, and conditional generative adversarial networks to advance predictive toxicology. <i>PLoS Computational Biology</i> , 2021 , 17, e1009135	3.1	4
114	The COVID-19 Pandemic Vulnerability Index (PVI) Dashboard: Monitoring County-Level Vulnerability Using Visualization, Statistical Modeling, and Machine Learning. <i>Environmental Health Perspectives</i> , 2021 , 129, 17701	4.6	7
113	High-throughput screening and genome-wide analyses of 44 anticancer drugs in the 1000 Genomes cell lines reveals an association of the NQO1 gene with the response of multiple anticancer drugs. <i>PLoS Genetics</i> , 2021 , 17, e1009732		
112	assessment of respiratory burst inhibition by xenobiotic exposure using larval zebrafish. <i>Journal of Immunotoxicology</i> , 2020 , 17, 94-104		
111	HGBEnviroScreen: Enabling Community Action through Data Integration in the Houston-Galveston-Brazoria Region. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,		
110	The COVID-19 Pandemic Vulnerability Index (PVI) Dashboard: Monitoring county-level vulnerability using visualization, statistical modeling, and machine learning 2020 ,		
109	Sex-specific effects of perinatal FireMaster® 550 (FM 550) exposure on socioemotional behavior in prairie voles. <i>Neurotoxicology and Teratology</i> , 2020 , 79, 106840	3.9	16

108	Concentration-response evaluation of ToxCast compounds for multivariate activity patterns of neural network function. <i>Archives of Toxicology</i> , 2020 , 94, 469-484	5.8	9
107	The multi-dimensional embryonic zebrafish platform predicts flame retardant bioactivity. <i>Reproductive Toxicology</i> , 2020 , 96, 359-369	3.4	10
106	Children's Environmental Health: A Systems Approach for Anticipating Impacts from Chemicals. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
105	Structural-based connectivity and omic phenotype evaluations (SCOPE): a cheminformatics toolbox for investigating lipidomic changes in complex systems. <i>Analyst, The</i> , 2020 , 145, 7197-7209	5	3
104	Inappropriate Citation of Vaccine Article. <i>Journal of Infectious Diseases</i> , 2020 , 222, 1413-1414	7	
103	Associations between access to healthcare, environmental quality, and end-stage renal disease survival time: Proportional-hazards models of over 1,000,000 people over 14 years. <i>PLoS ONE</i> , 2019 , 14, e0214094	3.7	1
102	Systematic determination of the relationship between nanoparticle core diameter and toxicity for a series of structurally analogous gold nanoparticles in zebrafish. <i>Nanotoxicology</i> , 2019 , 13, 879-893	5.3	14
101	Population-based toxicity screening in human induced pluripotent stem cell-derived cardiomyocytes. <i>Toxicology and Applied Pharmacology</i> , 2019 , 381, 114711	4.6	25
100	Determination of chemical-disease risk values to prioritize connections between environmental factors, genetic variants, and human diseases. <i>Toxicology and Applied Pharmacology</i> , 2019 , 379, 114674	4.6	3
99	Integration of curated and high-throughput screening data to elucidate environmental influences on disease pathways. <i>Computational Toxicology</i> , 2019 , 12,	3.1	8
98	Synergistic Chemotherapy Drug Response Is a Genetic Trait in Lymphoblastoid Cell Lines. <i>Frontiers in Genetics</i> , 2019 , 10, 829	4.5	3
97	Multivariate modeling of engineered nanomaterial features associated with developmental toxicity. <i>NanoImpact</i> , 2019 , 16, 100185-100185	5.6	4
96	Population genetic diversity in zebrafish lines. <i>Mammalian Genome</i> , 2018 , 29, 90-100	3.2	23
95	ToxPi Graphical User Interface 2.0: Dynamic exploration, visualization, and sharing of integrated data models. <i>BMC Bioinformatics</i> , 2018 , 19, 80	3.6	50
94	Characterizing the effects of missing data and evaluating imputation methods for chemical prioritization applications using ToxPi. <i>BioData Mining</i> , 2018 , 11, 10	4.3	7
93	Confirmation of high-throughput screening data and novel mechanistic insights into VDR-xenobiotic interactions by orthogonal assays. <i>Scientific Reports</i> , 2018 , 8, 8883	4.9	5
92	Use of high-throughput in vitro toxicity screening data in cancer hazard evaluations by IARC Monograph Working Groups. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 51-64	4.3	47
91	Neonatal mice exposed to a high-fat diet influence the behaviour of their nursing dam. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	1

90	Elucidating Gene-by-Environment Interactions Associated with Differential Susceptibility to Chemical Exposure. <i>Environmental Health Perspectives</i> , 2018 , 126, 067010	8.4	14
89	Incorporating ToxCast and Tox21 datasets to rank biological activity of chemicals at Superfund sites in North Carolina. <i>Environment International</i> , 2017 , 101, 19-26	12.9	14
88	Transgenerational inheritance of neurobehavioral and physiological deficits from developmental exposure to benzo[a]pyrene in zebrafish. <i>Toxicology and Applied Pharmacology</i> , 2017 , 329, 148-157	4.6	73
87	A data-driven weighting scheme for multivariate phenotypic endpoints recapitulates zebrafish developmental cascades. <i>Toxicology and Applied Pharmacology</i> , 2017 , 314, 109-117	4.6	8
86	Lifetime substance use as a predictor of postpartum mental health. <i>Archives of Women's Mental Health</i> , 2017 , 20, 189-199	5	9
85	From the Cover: Embryonic Exposure to TCDD Impacts Osteogenesis of the Axial Skeleton in Japanese medaka, <i>Oryzias latipes</i> . <i>Toxicological Sciences</i> , 2017 , 155, 485-496	4.4	17
84	An Introduction to Terminology and Methodology of Chemical Synergy-Perspectives from Across Disciplines. <i>Frontiers in Pharmacology</i> , 2017 , 8, 158	5.6	102
83	A New Statistical Approach to Characterize Chemical-Elicited Behavioral Effects in High-Throughput Studies Using Zebrafish. <i>PLoS ONE</i> , 2017 , 12, e0169408	3.7	13
82	Integrating Morphological and Behavioral Phenotypes in Developing Zebrafish 2017 , 259-272		2
81	High-throughput characterization of chemical-associated embryonic behavioral changes predicts teratogenic outcomes. <i>Archives of Toxicology</i> , 2016 , 90, 1459-70	5.8	89
80	Aggregate entropy scoring for quantifying activity across endpoints with irregular correlation structure. <i>Reproductive Toxicology</i> , 2016 , 62, 92-9	3.4	10
79	Advancing Exposure Science through Chemical Data Curation and Integration in the Comparative Toxicogenomics Database. <i>Environmental Health Perspectives</i> , 2016 , 124, 1592-1599	8.4	28
78	Using ToxCast Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. <i>Environmental Health Perspectives</i> , 2016 , 124, 910-9	8.4	55
77	Prioritizing Environmental Chemicals for Obesity and Diabetes Outcomes Research: A Screening Approach Using ToxCast High-Throughput Data. <i>Environmental Health Perspectives</i> , 2016 , 124, 1141-54	8.4	34
76	Evolutionary and Functional Diversification of the Vitamin D Receptor-Lithocholic Acid Partnership. <i>PLoS ONE</i> , 2016 , 11, e0168278	3.7	8
75	Advancing toxicology research using in vivo high throughput toxicology with small fish models. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2016 , 33, 435-452	4.3	34
74	Decoupling of a neutron interferometer from temperature gradients. <i>Review of Scientific Instruments</i> , 2016 , 87, 123507	1.7	6
73	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on In Vitro Assay Activity Across a Diverse Chemical and Assay Space. <i>Toxicological Sciences</i> , 2016 , 152, 323-39	4.4	125

72	Eigenvector metabolite analysis reveals dietary effects on the association among metabolite correlation patterns, gene expression, and phenotypes. <i>Metabolomics</i> , 2016 , 12, 1	4.7	7
71	A chemical-biological similarity-based grouping of complex substances as a prototype approach for evaluating chemical alternatives. <i>Green Chemistry</i> , 2016 , 18, 4407-4419	10	50
70	Use of Neural Models of Proliferation and Neurite Outgrowth to Screen Environmental Chemicals in the ToxCast Phase I Library. <i>Applied in Vitro Toxicology</i> , 2015 , 1, 131-139	1.3	10
69	Computational Methods Used in Systems Biology 2015 , 85-115		2
68	Impact of Low-Dose Oral Exposure to Bisphenol A (BPA) on Juvenile and Adult Rat Exploratory and Anxiety Behavior: A CLARITY-BPA Consortium Study. <i>Toxicological Sciences</i> , 2015 , 148, 341-54	4.4	51
67	Comparison of toxicity values across zebrafish early life stages and mammalian studies: Implications for chemical testing. <i>Reproductive Toxicology</i> , 2015 , 55, 3-10	3.4	66
66	Data-driven asthma endotypes defined from blood biomarker and gene expression data. <i>PLoS ONE</i> , 2015 , 10, e0117445	3.7	24
65	Molecular cloning, functional characterization, and evolutionary analysis of vitamin D receptors isolated from basal vertebrates. <i>PLoS ONE</i> , 2015 , 10, e0122853	3.7	8
64	Toxicity testing in the 21st century beyond environmental chemicals. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015 , 32, 171-81	4.3	62
63	Embracing Complexity: Searching for Gene-Gene and Gene Environment Interactions in Genetic Epidemiology 2015 , 19-57		
62	Hierarchical dose-response modeling for high-throughput toxicity screening of environmental chemicals. <i>Biometrics</i> , 2014 , 70, 237-46	1.8	16
61	Test driving ToxCast: endocrine profiling for 1858 chemicals included in phase II. <i>Current Opinion in Pharmacology</i> , 2014 , 19, 145-52	5.1	47
60	Predictive endocrine testing in the 21st century using in vitro assays of estrogen receptor signaling responses. <i>Environmental Science & Technology</i> , 2014 , 48, 8706-16	10.3	64
59	Profiling of the Tox21 10K compound library for agonists and antagonists of the estrogen receptor alpha signaling pathway. <i>Scientific Reports</i> , 2014 , 4, 5664	4.9	113
58	Multidimensional in vivo hazard assessment using zebrafish. <i>Toxicological Sciences</i> , 2014 , 137, 212-33	4.4	206
57	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. <i>Nature Biotechnology</i> , 2014 , 32, 583-91	44.5	141
56	Comparing metabolomic and pathologic biomarkers alone and in combination for discriminating Alzheimer's disease from normal cognitive aging. <i>Acta Neuropathologica Communications</i> , 2013 , 1, 28	7.3	42
55	Meta-analysis of toxicity and teratogenicity of 133 chemicals from zebrafish developmental toxicity studies. <i>Reproductive Toxicology</i> , 2013 , 41, 98-108	3.4	34

54	Decision tree-based method for integrating gene expression, demographic, and clinical data to determine disease endotypes. <i>BMC Systems Biology</i> , 2013 , 7, 119	3.5	18
53	Profiling 976 ToxCast chemicals across 331 enzymatic and receptor signaling assays. <i>Chemical Research in Toxicology</i> , 2013 , 26, 878-95	4	145
52	ToxCast: Predicting Toxicity Potential Through High-Throughput Bioactivity Profiling 2013 , 1-31		1
51	Real-time growth kinetics measuring hormone mimicry for ToxCast chemicals in T-47D human ductal carcinoma cells. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1097-107	4	34
50	High-throughput models for exposure-based chemical prioritization in the ExpoCast project. <i>Environmental Science & Technology</i> , 2013 , 47, 8479-88	10.3	102
49	A computational model predicting disruption of blood vessel development. <i>PLoS Computational Biology</i> , 2013 , 9, e1002996	5	88
48	Dosimetric anchoring of in vivo and in vitro studies for perfluorooctanoate and perfluorooctanesulfonate. <i>Toxicological Sciences</i> , 2013 , 136, 308-27	4.4	39
47	In vitro perturbations of targets in cancer hallmark processes predict rodent chemical carcinogenesis. <i>Toxicological Sciences</i> , 2013 , 131, 40-55	4.4	60
46	Using in vitro high throughput screening assays to identify potential endocrine-disrupting chemicals. <i>Environmental Health Perspectives</i> , 2013 , 121, 7-14	8.4	119
45	ToxPi GUI: an interactive visualization tool for transparent integration of data from diverse sources of evidence. <i>Bioinformatics</i> , 2013 , 29, 402-3	7.2	60
44	Perspectives on validation of high-throughput assays supporting 21st century toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013 , 30, 51-6	4.3	105
43	Incorporating biological, chemical, and toxicological knowledge into predictive models of toxicity. <i>Toxicological Sciences</i> , 2012 , 130, 440-1; author reply 442-3	4.4	20
42	Incorporating exposure information into the toxicological prioritization index decision support framework. <i>Science of the Total Environment</i> , 2012 , 435-436, 316-25	10.2	25
41	Update on EPA's ToxCast program: providing high throughput decision support tools for chemical risk management. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1287-302	4	357
40	A comparison of internal model validation methods for multifactor dimensionality reduction in the case of genetic heterogeneity. <i>BMC Research Notes</i> , 2012 , 5, 623	2.3	6
39	Zebrafish developmental screening of the ToxCast Phase I chemical library. <i>Reproductive Toxicology</i> , 2012 , 33, 174-87	3.4	228
38	Aggregating data for computational toxicology applications: The U.S. Environmental Protection Agency (EPA) Aggregated Computational Toxicology Resource (ACToR) System. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 1805-31	6.3	89
37	Predictive model of rat reproductive toxicity from ToxCast high throughput screening. <i>Biology of Reproduction</i> , 2011 , 85, 327-39	3.9	122

36	Environmental impact on vascular development predicted by high-throughput screening. <i>Environmental Health Perspectives</i> , 2011 , 119, 1596-603	8.4	98
35	Evaluation of 309 environmental chemicals using a mouse embryonic stem cell adherent cell differentiation and cytotoxicity assay. <i>PLoS ONE</i> , 2011 , 6, e18540	3.7	51
34	Using nuclear receptor activity to stratify hepatocarcinogens. <i>PLoS ONE</i> , 2011 , 6, e14584	3.7	43
33	Evaluation of genetic susceptibility to childhood allergy and asthma in an African American urban population. <i>BMC Medical Genetics</i> , 2011 , 12, 25	2.1	19
32	Mechanistic indicators of childhood asthma (MICA) study: piloting an integrative design for evaluating environmental health. <i>BMC Public Health</i> , 2011 , 11, 344	4.1	9
31	Predictive models of prenatal developmental toxicity from ToxCast high-throughput screening data. <i>Toxicological Sciences</i> , 2011 , 124, 109-27	4.4	155
30	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. <i>Toxicology</i> , 2011 , 282, 1-15	4.4	115
29	Optimization of grammatical evolution decision trees 2011 ,		1
28	Research needs for community-based risk assessment: findings from a multi-disciplinary workshop. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2010 , 20, 186-95	6.7	9
27	In vitro screening of environmental chemicals for targeted testing prioritization: the ToxCast project. <i>Environmental Health Perspectives</i> , 2010 , 118, 485-92	8.4	439
26	Endocrine profiling and prioritization of environmental chemicals using ToxCast data. <i>Environmental Health Perspectives</i> , 2010 , 118, 1714-20	8.4	231
25	Xenobiotic-metabolizing enzyme and transporter gene expression in primary cultures of human hepatocytes modulated by ToxCast chemicals. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010 , 13, 329-46	8.6	47
24	Impact of environmental chemicals on key transcription regulators and correlation to toxicity end points within EPA's ToxCast program. <i>Chemical Research in Toxicology</i> , 2010 , 23, 578-90	4	164
23	Incorporating human dosimetry and exposure into high-throughput in vitro toxicity screening. <i>Toxicological Sciences</i> , 2010 , 117, 348-58	4.4	189
22	Analysis of eight oil spill dispersants using rapid, in vitro tests for endocrine and other biological activity. <i>Environmental Science & Technology</i> , 2010 , 44, 5979-85	10.3	127
21	Profiling chemicals based on chronic toxicity results from the U.S. EPA ToxRef Database. <i>Environmental Health Perspectives</i> , 2009 , 117, 392-9	8.4	163
20	Comparative microarray analysis and pulmonary changes in Brown Norway rats exposed to ovalbumin and concentrated air particulates. <i>Toxicological Sciences</i> , 2009 , 108, 207-21	4.4	15
19	A Balanced Accuracy Fitness Function Leads to Robust Analysis using Grammatical Evolution Neural Networks in the Case of Class Imbalance 2008 , 2008, 353-354		3

18	Genetic basis for adverse events after smallpox vaccination. <i>Journal of Infectious Diseases</i> , 2008 , 198, 16-22	7	59
17	A comparison of analytical methods for genetic association studies. <i>Genetic Epidemiology</i> , 2008 , 32, 767-78	2.8	43
16	Exploratory Visual Analysis of Statistical Results from Microarray Experiments Comparing High and Low Grade Glioma. <i>Cancer Informatics</i> , 2007 , 5, 117693510700500	2.4	
15	Novel methods for detecting epistasis in pharmacogenomics studies. <i>Pharmacogenomics</i> , 2007 , 8, 1229-416	4.16	53
14	Linkage Disequilibrium in Genetic Association Studies Improves the Performance of Grammatical Evolution Neural Networks 2007 ,		3
13	Exploratory Visual Analysis of statistical results from microarray experiments comparing high and low grade glioma. <i>Cancer Informatics</i> , 2007 , 5, 19-24	2.4	7
12	Linkage Disequilibrium in Genetic Association Studies Improves the Performance of Grammatical Evolution Neural Networks 2007 , 2007, 1-8		4
11	Cytokine expression patterns associated with systemic adverse events following smallpox immunization. <i>Journal of Infectious Diseases</i> , 2006 , 194, 444-53	7	39
10	Machine learning for detecting gene-gene interactions: a review. <i>Applied Bioinformatics</i> , 2006 , 5, 77-88		163
9	Feature Selection using a Random Forests Classifier for the Integrated Analysis of Multiple Data Types 2006 ,		26
8	Understanding the Evolutionary Process of Grammatical Evolution Neural Networks for Feature Selection in Genetic Epidemiology 2006 , 2006, 1-8		14
7	Visual analysis of statistical results from microarray studies of human breast cancer. <i>Oncology Reports</i> , 2006 , 15 Spec no., 1043-7	3.5	7
6	Combinatorial pharmacogenetics. <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 911-8	64.1	94
5	Exploratory visual analysis of pharmacogenomic results. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2005 , 296-307	1.3	14
4	Integrated analysis of genetic, genomic and proteomic data. <i>Expert Review of Proteomics</i> , 2004 , 1, 67-75	4.2	43
3	EXPLORATORY VISUAL ANALYSIS OF PHARMACOGENOMIC RESULTS 2004 ,		3
2	Complex Function Sets Improve Symbolic Discriminant Analysis of Microarray Data. <i>Lecture Notes in Computer Science</i> , 2003 , 2277-2287	0.9	3
1	Leveraging high-throughput screening data and conditional generative adversarial networks to advance predictive toxicology		1

