Richard S Judson

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.

171 papers	18,111 citations	65 h-index	133 g-index
177 ext. papers	20,541 ext. citations	6 avg, IF	6.21 L-index

#	Paper	IF	Citations
171	A comprehensive analysis of protein-protein interactions in Saccharomyces cerevisiae. *Nature*, **2000**, 403, 623-7	50.4	3974
170	Teaching lasers to control molecules. *Physical Review Letters*, **1992**, 68, 1500-1503	7.4	1230
169	Haplotype variation and linkage disequilibrium in 313 human genes. *Science*, **2001**, 293, 489-93	33.3	685
168	The MicroArray Quality Control (MAQC)-II study of common practices for the development and validation of microarray-based predictive models. *Nature Biotechnology*, **2010**, 28, 827-38	44.5	644
167	In vitro screening of environmental chemicals for targeted testing prioritization: the ToxCast project. *Environmental Health Perspectives*, **2010**, 118, 485-92	8.4	439
166	Update on EPA's ToxCast program: providing high throughput decision support tools for chemical risk management. *Chemical Research in Toxicology*, **2012**, 25, 1287-302	4	357
165	The CompTox Chemistry Dashboard: a community data resource for environmental chemistry. *Journal of Cheminformatics*, **2017**, 9, 61	8.6	352
164	The toxicity data landscape for environmental chemicals. *Environmental Health Perspectives*, **2009**, 117, 685-95	8.4	340
163	A large-scale experiment to assess protein structure prediction methods. *Proteins: Structure, Function and Bioinformatics*, **1995**, 23, ii-v	4.2	332
162	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. *Chemical Research in Toxicology*, **2016**, 29, 1225-51	4	301
161	Integration of dosimetry, exposure, and high-throughput screening data in chemical toxicity assessment. *Toxicological Sciences*, **2012**, 125, 157-74	4.4	280
160	Spectrum and prevalence of cardiac sodium channel variants among black, white, Asian, and Hispanic individuals: implications for arrhythmogenic susceptibility and Brugada/long QT syndrome genetic testing. *Heart Rhythm*, **2004**, 1, 600-7	6.7	243
159	Endocrine profiling and prioritization of environmental chemicals using ToxCast data. *Environmental Health Perspectives*, **2010**, 118, 1714-20	8.4	231
158	CERAPP: Collaborative Estrogen Receptor Activity Prediction Project. *Environmental Health Perspectives*, **2016**, 124, 1023-33	8.4	206
157	Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 In Vitro High-Throughput Screening Assays for the Estrogen Receptor. *Toxicological Sciences*, **2015**, 148, 137-54	4.4	201
156	Incorporating human dosimetry and exposure into high-throughput in vitro toxicity screening. *Toxicological Sciences*, **2010**, 117, 348-58	4.4	189
155	Screening Chemicals for Estrogen Receptor Bioactivity Using a Computational Model. *Environmental Science & Technology*, **2015**, 49, 8804-14	10.3	183

154	Estimating toxicity-related biological pathway altering doses for high-throughput chemical risk assessment. *Chemical Research in Toxicology*, **2011**, 24, 451-62	4	166
153	Impact of environmental chemicals on key transcription regulators and correlation to toxicity end points within EPA© ToxCast program. *Chemical Research in Toxicology*, **2010**, 23, 578-90	4	164
152	ACToR--Aggregated Computational Toxicology Resource. *Toxicology and Applied Pharmacology*, **2008**, 233, 7-13	4.6	164
151	Profiling chemicals based on chronic toxicity results from the U.S. EPA ToxRef Database. *Environmental Health Perspectives*, **2009**, 117, 392-9	8.4	163
150	Predictive models of prenatal developmental toxicity from ToxCast high-throughput screening data. *Toxicological Sciences*, **2011**, 124, 109-27	4.4	155
149	OPERA models for predicting physicochemical properties and environmental fate endpoints. *Journal of Cheminformatics*, **2018**, 10, 10	8.6	151
148	Chemical genomics profiling of environmental chemical modulation of human nuclear receptors. *Environmental Health Perspectives*, **2011**, 119, 1142-8	8.4	150
147	Incorporating High-Throughput Exposure Predictions With Dosimetry-Adjusted In Vitro Bioactivity to Inform Chemical Toxicity Testing. *Toxicological Sciences*, **2015**, 148, 121-36	4.4	148
146	Profiling 976 ToxCast chemicals across 331 enzymatic and receptor signaling assays. *Chemical Research in Toxicology*, **2013**, 26, 878-95	4	145
145	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. *Nature Biotechnology*, **2014**, 32, 583-91	44.5	141
144	The exposure data landscape for manufactured chemicals. *Science of the Total Environment*, **2012**, 414, 159-66	10.2	134
143	High throughput heuristics for prioritizing human exposure to environmental chemicals. *Environmental Science & Technology*, **2014**, 48, 12760-7	10.3	130
142	The application of time-dependent wavepacket methods to reactive scattering. *Computer Physics Communications*, **1991**, 63, 460-481	4.2	128
141	Analysis of eight oil spill dispersants using rapid, in vitro tests for endocrine and other biological activity. *Environmental Science & Technology*, **2010**, 44, 5979-85	10.3	127
140	Editor© 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
139	Predictive model of rat reproductive toxicity from ToxCast high throughput screening. *Biology of Reproduction*, **2011**, 85, 327-39	3.9	122
138	The predictive power of haplotypes in clinical response. *Pharmacogenomics*, **2000**, 1, 15-26	2.6	122
137	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. *Toxicological Sciences*, **2019**, 169, 317-332	4.4	121

136	Computational toxicology--a state of the science mini review. *Toxicological Sciences*, **2008**, 103, 14-27	4.4	121
135	Using in vitro high throughput screening assays to identify potential endocrine-disrupting chemicals. *Environmental Health Perspectives*, **2013**, 121, 7-14	8.4	119
134	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. *Toxicology*, **2011**, 282, 1-15	4.4	115
133	Development and Validation of a Computational Model for Androgen Receptor Activity. *Chemical Research in Toxicology*, **2017**, 30, 946-964	4	114
132	Profiling of the Tox21 10K compound library for agonists and antagonists of the estrogen receptor alpha signaling pathway. *Scientific Reports*, **2014**, 4, 5664	4.9	113
131	Linking high resolution mass spectrometry data with exposure and toxicity forecasts to advance high-throughput environmental monitoring. *Environment International*, **2016**, 88, 269-280	12.9	110
130	A time-dependent wave packet approach to atom diatom reactive collision probabilities: Theory and application to the H+H2 (J=0) system. *Journal of Chemical Physics*, **1990**, 93, 312-322	3.9	109
129	Profiling the reproductive toxicity of chemicals from multigeneration studies in the toxicity reference database. *Toxicological Sciences*, **2009**, 110, 181-90	4.4	105
128	Perspectives on validation of high-throughput assays supporting 21st century toxicity testing. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 51-6	4.3	105
127	High-throughput models for exposure-based chemical prioritization in the ExpoCast project. *Environmental Science & Technology*, **2013**, 47, 8479-88	10.3	102
126	Environmental impact on vascular development predicted by high-throughput screening. *Environmental Health Perspectives*, **2011**, 119, 1596-603	8.4	98
125	Profiling the activity of environmental chemicals in prenatal developmental toxicity studies using the U.S. EPA ToxRefDB. *Reproductive Toxicology*, **2009**, 28, 209-19	3.4	98
124	Predicting hepatotoxicity using ToxCast in vitro bioactivity and chemical structure. *Chemical Research in Toxicology*, **2015**, 28, 738-51	4	96
123	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
122	Exploring consumer exposure pathways and patterns of use for chemicals in the environment. *Toxicology Reports*, **2015**, 2, 228-237	4.8	95
121	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, 327-46	4.4	92
120	Toxicokinetic Triage for Environmental Chemicals. *Toxicological Sciences*, **2015**, 147, 55-67	4.4	89
119	Evaluation of high-throughput genotoxicity assays used in profiling the US EPA ToxCast chemicals. *Regulatory Toxicology and Pharmacology*, **2009**, 55, 188-99	3.4	89

118	Aggregating data for computational toxicology applications: The U.S. Environmental Protection Agency (EPA) Aggregated Computational Toxicology Resource (ACToR) System. *International Journal of Molecular Sciences*, **2012**, 13, 1805-31	6.3	89
117	Profiling bioactivity of the ToxCast chemical library using BioMAP primary human cell systems. *Journal of Biomolecular Screening*, **2009**, 14, 1054-66		88
116	Chemiluminescent Reaction Channel Opened by Photon Absorption During Collision. *Physical Review Letters*, **1980**, 44, 687-690	7.4	87
115	How many SNPs does a genome-wide haplotype map require?. *Pharmacogenomics*, **2002**, 3, 379-91	2.6	86
114	Time-dependent wave-packet method for the complete determination of S-matrix elements for reactive molecular collisions in three dimensions. *Physical Review A*, **1990**, 42, 351-366	2.6	84
113	Time dependent three-dimensional body frame quantal wave packet treatment of the H+H2 exchange reaction on the Liu□Siegbahn□Truhlar□Horowitz (LSTH) surface. *Journal of Chemical Physics*, **1989**, 90, 5882-5884	3.9	80
112	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. *Environmental Health Perspectives*, **2020**, 128, 27002	8.4	70
111	Development of a consumer product ingredient database for chemical exposure screening and prioritization. *Food and Chemical Toxicology*, **2014**, 65, 269-79	4.7	69
110	Optimal design of external fields for controlling molecular motion: application to rotation. *Journal of Molecular Structure*, **1990**, 223, 425-456	3.4	69
109	Tiered High-Throughput Screening Approach to Identify Thyroperoxidase Inhibitors Within the ToxCast Phase I and II Chemical Libraries. *Toxicological Sciences*, **2016**, 151, 160-80	4.4	67
108	tcpl: the ToxCast pipeline for high-throughput screening data. *Bioinformatics*, **2017**, 33, 618-620	7.2	66
107	Chemical Safety Assessment Using Read-Across: Assessing the Use of Novel Testing Methods to Strengthen the Evidence Base for Decision Making. *Environmental Health Perspectives*, **2015**, 123, 1232-40	8.4	66
106	Time-dependent (wavepacket) quantum approach to reactive scattering: Vibrationally resolved reaction probabilities for F+H2-HF+H. *Chemical Physics Letters*, **1990**, 169, 372-379	2.5	65
105	A hybrid gene selection approach to create the S1500+ targeted gene sets for use in high-throughput transcriptomics. *PLoS ONE*, **2018**, 13, e0191105	3.7	64
104	Predictive endocrine testing in the 21st century using in vitro assays of estrogen receptor signaling responses. *Environmental Science & Technology*, **2014**, 48, 8706-16	10.3	64
103	In Silico Prediction of Physicochemical Properties of Environmental Chemicals Using Molecular Fingerprints and Machine Learning. *Journal of Chemical Information and Modeling*, **2017**, 57, 36-49	6.1	63
102	Toxicity data informatics: supporting a new paradigm for toxicity prediction. *Toxicology Mechanisms and Methods*, **2008**, 18, 103-18	3.6	63
101	In vitro perturbations of targets in cancer hallmark processes predict rodent chemical carcinogenesis. *Toxicological Sciences*, **2013**, 131, 40-55	4.4	60

100	Total integral reactive cross sections for F + H2 -ħ HF + H: comparison of converged quantum, quasiclassical trajectory and experimental results. *Chemical Physics Letters*, **1991**, 176, 546-550	2.5	60
99	The Next Generation of Risk Assessment Multi-Year Study-Highlights of Findings, Applications to Risk Assessment, and Future Directions. *Environmental Health Perspectives*, **2016**, 124, 1671-1682	8.4	59
98	New and confirmatory evidence of an association between APOE genotype and baseline C-reactive protein in dyslipidemic individuals. *Atherosclerosis*, **2004**, 177, 345-51	3.1	58
97	EADB: an estrogenic activity database for assessing potential endocrine activity. *Toxicological Sciences*, **2013**, 135, 277-91	4.4	55
96	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
95	Haplotypes of the cholesteryl ester transfer protein gene predict lipid-modifying response to statin therapy. *Pharmacogenomics Journal*, **2003**, 3, 284-96	3.5	53
94	Notes from the SNP vs. haplotype front. *Pharmacogenomics*, **2001**, 2, 7-10	2.6	52
93	Evaluation of 309 environmental chemicals using a mouse embryonic stem cell adherent cell differentiation and cytotoxicity assay. *PLoS ONE*, **2011**, 6, e18540	3.7	51
92	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
91	Computational Exposure Science: An Emerging Discipline to Support 21st-Century Risk Assessment. *Environmental Health Perspectives*, **2016**, 124, 697-702	8.4	50
90	Bayesian meta-analysis of genetic association studies with different sets of markers. *American Journal of Human Genetics*, **2008**, 82, 859-72	11	49
89	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
88	Binary classification of a large collection of environmental chemicals from estrogen receptor assays by quantitative structure-activity relationship and machine learning methods. *Journal of Chemical Information and Modeling*, **2013**, 53, 3244-61	6.1	47
87	Xenobiotic-metabolizing enzyme and transporter gene expression in primary cultures of human hepatocytes modulated by ToxCast chemicals. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2010**, 13, 329-46	8.6	47
86	A genetic algorithm based method for docking flexible molecules. *Computational and Theoretical Chemistry*, **1994**, 308, 191-206		47
85	An "EAR" on Environmental Surveillance and Monitoring: A Case Study on the Use of Exposure-Activity Ratios (EARs) to Prioritize Sites, Chemicals, and Bioactivities of Concern in Great Lakes Waters. *Environmental Science & Technology*, **2017**, 51, 8713-8724	10.3	45
84	Using nuclear receptor activity to stratify hepatocarcinogens. *PLoS ONE*, **2011**, 6, e14584	3.7	43
83	The Tox21 10K Compound Library: Collaborative Chemistry Advancing Toxicology. *Chemical Research in Toxicology*, **2021**, 34, 189-216	4	40

82	Dosimetric anchoring of in vivo and in vitro studies for perfluorooctanoate and perfluorooctanesulfonate. *Toxicological Sciences*, **2013**, 136, 308-27	4.4	39
81	Genome-wide evaluation of the public SNP databases. *Pharmacogenomics*, **2003**, 4, 779-89	2.6	38
80	Systems Toxicology of Male Reproductive Development: Profiling 774 Chemicals for Molecular Targets and Adverse Outcomes. *Environmental Health Perspectives*, **2016**, 124, 1050-61	8.4	38
79	Time-dependent treatment of scattering: Integral equation approaches using the time-dependent amplitude density. *Journal of Chemical Physics*, **1990**, 92, 4167-4177	3.9	37
78	A novel framework for predicting in vivo toxicities from in vitro data using optimal methods for dense and sparse matrix reordering and logistic regression. *Toxicological Sciences*, **2010**, 118, 251-65	4.4	36
77	Challenges in IBD Research: Environmental Triggers. *Inflammatory Bowel Diseases*, **2019**, 25, S13-S23	4.5	35
76	Predictive models and computational toxicology. *Methods in Molecular Biology*, **2013**, 947, 343-74	1.4	35
75	Allelic dropout in long QT syndrome genetic testing: a possible mechanism underlying false-negative results. *Heart Rhythm*, **2006**, 3, 815-21	6.7	35
74	Real-time growth kinetics measuring hormone mimicry for ToxCast chemicals in T-47D human ductal carcinoma cells. *Chemical Research in Toxicology*, **2013**, 26, 1097-107	4	34
73	Prioritizing Environmental Chemicals for Obesity and Diabetes Outcomes Research: A Screening Approach Using ToxCast High-Throughput Data. *Environmental Health Perspectives*, **2016**, 124, 1141-54	8.4	34
72	Evidence-based toxicology for the 21st century: opportunities and challenges. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 74-103	4.3	33
71	Moving Toward Integrating Gene Expression Profiling Into High-Throughput Testing: A Gene Expression Biomarker Accurately Predicts Estrogen Receptor Modulation in a Microarray Compendium. *Toxicological Sciences*, **2016**, 151, 88-103	4.4	32
70	On selecting a minimal set of in vitro assays to reliably determine estrogen agonist activity. *Regulatory Toxicology and Pharmacology*, **2017**, 91, 39-49	3.4	27
69	A comparison of three time-dependent wave packet methods for calculating electron atom elastic scattering cross sections. *Journal of Chemical Physics*, **1991**, 94, 3577-3585	3.9	27
68	Advancements in Life Cycle Human Exposure and Toxicity Characterization. *Environmental Health Perspectives*, **2018**, 126, 125001	8.4	27
67	Public databases supporting computational toxicology. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2010**, 13, 218-31	8.6	26
66	Uncertainty quantification in ToxCast high throughput screening. *PLoS ONE*, **2018**, 13, e0196963	3.7	26
65	Incorporating exposure information into the toxicological prioritization index decision support framework. *Science of the Total Environment*, **2012**, 435-436, 316-25	10.2	25

64	High-Throughput H295R Steroidogenesis Assay: Utility as an Alternative and a Statistical Approach to Characterize Effects on Steroidogenesis. *Toxicological Sciences*, **2018**, 162, 509-534	4.4	24
63	Prediction of Estrogenic Bioactivity of Environmental Chemical Metabolites. *Chemical Research in Toxicology*, **2016**, 29, 1410-27	4	24
62	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
61	Identifying environmental chemicals as agonists of the androgen receptor by using a quantitative high-throughput screening platform. *Toxicology*, **2017**, 385, 48-58	4.4	22
60	Advancing alternatives analysis: The role of predictive toxicology in selecting safer chemical products and processes. *Integrated Environmental Assessment and Management*, **2017**, 13, 915-925	2.5	21
59	Docking-based classification models for exploratory toxicology studies on high-quality estrogenic experimental data. *Future Medicinal Chemistry*, **2015**, 7, 1921-36	4.1	21
58	Evaluation of androgen assay results using a curated Hershberger database. *Reproductive Toxicology*, **2018**, 81, 272-280	3.4	21
57	Incorporating biological, chemical, and toxicological knowledge into predictive models of toxicity. *Toxicological Sciences*, **2012**, 130, 440-1; author reply 442-3	4.4	20
56	Time-dependent treatment of scattering. II. Novel integral equation approach to quantum wave packets. *Journal of Chemical Physics*, **1990**, 93, 5580-5585	3.9	20
55	Vision of a near future: Bridging the human health-environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. *Toxicology in Vitro*, **2020**, 62, 104692	3.6	19
54	Identification of potential endocrine disrupting chemicals using gene expression biomarkers. *Toxicology and Applied Pharmacology*, **2019**, 380, 114683	4.6	18
53	Profiling the ToxCast Library With a Pluripotent Human (H9) Stem Cell Line-Based Biomarker Assay for Developmental Toxicity. *Toxicological Sciences*, **2020**, 174, 189-209	4.4	17
52	Development, validation and integration of in silico models to identify androgen active chemicals. *Chemosphere*, **2019**, 220, 204-215	8.4	17
51	Development of a curated Hershberger database. *Reproductive Toxicology*, **2018**, 81, 259-271	3.4	16
50	Predictive Structure-Based Toxicology Approaches To Assess the Androgenic Potential of Chemicals. *Journal of Chemical Information and Modeling*, **2017**, 57, 2874-2884	6.1	15
49	Empirical models for anatomical and physiological changes in a human mother and fetus during pregnancy and gestation. *PLoS ONE*, **2019**, 14, e0215906	3.7	15
48	High-Throughput Transcriptomics Platform for Screening Environmental Chemicals. *Toxicological Sciences*, **2021**, 181, 68-89	4.4	15
47	High-Throughput Screening to Predict Chemical-Assay Interference. *Scientific Reports*, **2020**, 10, 3986	4.9	14

46	Characterizing cleft palate toxicants using ToxCast data, chemical structure, and the biomedical literature. *Birth Defects Research*, **2020**, 112, 19-39	2.9	14
45	A systematic evaluation of analogs and automated read-across prediction of estrogenicity: A case study using hindered phenols. *Computational Toxicology*, **2017**, 4, 22-30	3.1	13
44	Progress in data interoperability to support computational toxicology and chemical safety evaluation. *Toxicology and Applied Pharmacology*, **2019**, 380, 114707	4.6	13
43	Ensemble QSAR Modeling to Predict Multispecies Fish Toxicity Lethal Concentrations and Points of Departure. *Environmental Science & Technology*, **2019**, 53, 12793-12802	10.3	12
42	Economic benefits of using adaptive predictive models of reproductive toxicity in the context of a tiered testing program. *Systems Biology in Reproductive Medicine*, **2012**, 58, 3-9	2.9	12
41	Pharmacogenetic issues in thorough QT trials. *Molecular Diagnosis and Therapy*, **2006**, 10, 153-62	4.5	12
40	Variability in studies: Defining the upper limit of performance for predictions of systemic effect levels. *Computational Toxicology*, **2020**, 15, 1-100126	3.1	11
39	Genetic Algorithms and Their Use in Chemistry. *Reviews in Computational Chemistry*, **2007**, 1-73		11
38	Retrospective mining of toxicology data to discover multispecies and chemical class effects: Anemia as a case study. *Regulatory Toxicology and Pharmacology*, **2017**, 86, 74-92	3.4	10
37	Predicting estrogen receptor activation by a group of substituted phenols: An integrated approach to testing and assessment case study. *Regulatory Toxicology and Pharmacology*, **2019**, 106, 278-291	3.4	10
36	Use of Neural Models of Proliferation and Neurite Outgrowth to Screen Environmental Chemicals in the ToxCast Phase I Library. *Applied in Vitro Toxicology*, **2015**, 1, 131-139	1.3	10
35	Probabilistic diagram for designing chemicals with reduced potency to incur cytotoxicity. *Green Chemistry*, **2016**, 18, 4461-4467	10	10
34	In Silico Study of In Vitro GPCR Assays by QSAR Modeling. *Methods in Molecular Biology*, **2016**, 1425, 361-81	1.4	10
33	Editor's Highlight: Negative Predictors of Carcinogenicity for Environmental Chemicals. *Toxicological Sciences*, **2017**, 155, 157-169	4.4	10
32	New approach methods for testing chemicals for endocrine disruption potential. *Current Opinion in Toxicology*, **2018**, 9, 40-47	4.4	10
31	A mechanistic framework for integrating chemical structure and high-throughput screening results to improve toxicity predictions. *Computational Toxicology*, **2018**, 8, 1-12	3.1	9
30	Development of a prioritization method for chemical-mediated effects on steroidogenesis using an integrated statistical analysis of high-throughput H295R data. *Regulatory Toxicology and Pharmacology*, **2019**, 109, 104510	3.4	9
29	Reactive scattering using a mixed quantum-classical paradigm. *Chemical Physics Letters*, **1991**, 179, 385-393	2.3	9

28	Using pathway modules as targets for assay development in xenobiotic screening. *Molecular BioSystems*, **2012**, 8, 531-42		8
27	Using Chemical Structure Information to Develop Predictive Models for Toxicokinetic Parameters to Inform High-throughput Risk-assessment. *Computational Toxicology*, **2020**, 16,	3.1	8
26	Workflow for defining reference chemicals for assessing performance of in vitro assays. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 261-276	4.3	7
25	Integrating endocrine-related health effects into comparative human toxicity characterization. *Science of the Total Environment*, **2021**, 762, 143874	10.2	7
24	Coupled molecular design diagrams to guide safer chemical design with reduced likelihood of perturbing the NRF2-ARE antioxidant pathway and inducing cytotoxicity. *Green Chemistry*, **2016**, 18, 6387-6394	10	7
23	Predicting in vivo effect levels for repeat-dose systemic toxicity using chemical, biological, kinetic and study covariates. *Archives of Toxicology*, **2018**, 92, 587-600	5.8	7
22	Estimating uncertainty in the context of new approach methodologies for potential use in chemical safety evaluation. *Current Opinion in Toxicology*, **2019**, 15, 40-47	4.4	6
21	Comment on "On the Utility of ToxCast and ToxPi as Methods for Identifying New Obesogens". *Environmental Health Perspectives*, **2017**, 125, A8-A11	8.4	6
20	Using multiple drug exposure levels to optimize power in pharmacogenetic trials. *Journal of Clinical Pharmacology*, **2003**, 43, 816-24	2.9	6
19	Time dependent integral equation approaches to quantum scattering: Comparative application to atom rigid rotor multichannel scattering. *Journal of Chemical Physics*, **1992**, 96, 5039-5046	3.9	6
18	Structure-based QSAR Models to Predict Repeat Dose Toxicity Points of Departure. *Computational Toxicology*, **2020**, 16,	3.1	6
17	Integrating data gap filling techniques: A case study predicting TEFs for neurotoxicity TEQs to facilitate the hazard assessment of polychlorinated biphenyls. *Regulatory Toxicology and Pharmacology*, **2019**, 101, 12-23	3.4	6
16	Assessing bioactivity-exposure profiles of fruit and vegetable extracts in the BioMAP profiling system. *Toxicology in Vitro*, **2019**, 54, 41-57	3.6	6
15	Inelastic probabilities above the three-body breakup threshold via a projection operator formalism. *Chemical Physics Letters*, **1991**, 181, 151-156	2.5	5
14	Systematic Evidence Map for Over One Hundred and Fifty Per- and Polyfluoroalkyl Substances (PFAS).. *Environmental Health Perspectives*, **2022**, 130, 56001	8.4	5
13	Selecting a minimal set of androgen receptor assays for screening chemicals. *Regulatory Toxicology and Pharmacology*, **2020**, 117, 104764	3.4	4
12	Comparison of Approaches for Determining Bioactivity Hits from High-Dimensional Profiling Data. *SLAS Discovery*, **2021**, 26, 292-308	3.4	4
11	Modeling In Vitro Cell-Based Assays Experiments: Cell Population Dynamics. *Developments in Environmental Modelling*, **2012**, 25, 51-71	0	3

10	Health effects of toxicants: Online knowledge support. *Life Sciences*, **2016**, 145, 284-93	6.8	3
9	Exploring non-linear distance metrics in the structure-activity space: QSAR models for human estrogen receptor. *Journal of Cheminformatics*, **2018**, 10, 47	8.6	3
8	Using Molecular Dynamics to Predict Factors Affecting Binding Strength and Magnetic Relaxivity of MRI Contrast Agents. *Journal of Molecular Modeling*, **1996**, 2, 160-174	2	2
7	Pharmacogenomics in Drug Development **2005**, 83-103		2
6	Differential Toxicity Characterization of Green Alternative Chemicals **2012**, 21		1
5	ToxCast: Predicting Toxicity Potential Through High-Throughput Bioactivity Profiling **2013**, 1-31		1
4	Pharmacogenomics in Drug Development and Clinical Research **2008**, 677-690		1
3	Editor© Highlight: Genetic Targets of Acute Toluene Inhalation in Drosophila melanogaster. *Toxicological Sciences*, **2017**, 156, 230-239	4.4	1
2	Predicting molecular initiating events using chemical target annotations and gene expression.. *BioData Mining*, **2022**, 15, 7	4.3	1
1	Combining phenotypic profiling and targeted RNA-Seq reveals linkages between transcriptional perturbations and chemical effects on cell morphology: Retinoic acid as an example.. *Toxicology and Applied Pharmacology*, **2022**, 116032	4.6	0