

Carolyn J Mattingly

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.

59
papers

3,948
citations

31
h-index

62
g-index

62
ext. papers

4,950
ext. citations

6.5
avg, IF

5.62
L-index

#	Paper	IF	Citations
59	The Comparative Toxicogenomics Database: update 2019. <i>Nucleic Acids Research</i> , 2019 , 47, D948-D954	20.1	488
58	The Comparative Toxicogenomics Database: update 2017. <i>Nucleic Acids Research</i> , 2017 , 45, D972-D978	20.1	402
57	The Comparative Toxicogenomics Database: update 2013. <i>Nucleic Acids Research</i> , 2013 , 41, D1104-14	20.1	294
56	The Comparative Toxicogenomics Database's 10th year anniversary: update 2015. <i>Nucleic Acids Research</i> , 2015 , 43, D914-20	20.1	288
55	Comparative Toxicogenomics Database: a knowledgebase and discovery tool for chemical-gene-disease networks. <i>Nucleic Acids Research</i> , 2009 , 37, D786-92	20.1	210
54	The Comparative Toxicogenomics Database: update 2011. <i>Nucleic Acids Research</i> , 2011 , 39, D1067-72	20.1	192
53	Comparative Toxicogenomics Database (CTD): update 2021. <i>Nucleic Acids Research</i> , 2021 , 49, D1138-D1143	23.1	159
52	The Comparative Toxicogenomics Database (CTD). <i>Environmental Health Perspectives</i> , 2003 , 111, 793-5	8.4	147
51	BioCreative V CDR task corpus: a resource for chemical disease relation extraction. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016,	5	129
50	The comparative toxicogenomics database: a cross-species resource for building chemical-gene interaction networks. <i>Toxicological Sciences</i> , 2006 , 92, 587-95	4.4	105
49	MEDIC: a practical disease vocabulary used at the Comparative Toxicogenomics Database. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bar065	5	100
48	Text mining and manual curation of chemical-gene-disease networks for the comparative toxicogenomics database (CTD). <i>BMC Bioinformatics</i> , 2009 , 10, 326	3.6	97
47	Assessing the state of the art in biomedical relation extraction: overview of the BioCreative V chemical-disease relation (CDR) task. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016,	5	85
46	A CTD-Pfizer collaboration: manual curation of 88,000 scientific articles text mined for drug-disease and drug-phenotype interactions. <i>Database: the Journal of Biological Databases and Curation</i> , 2013 , 2013, bat080	5	72
45	Green fluorescent protein (GFP) as a marker of aryl hydrocarbon receptor (AhR) function in developing zebrafish (<i>Danio rerio</i>). <i>Environmental Health Perspectives</i> , 2001 , 109, 845-9	8.4	69
44	Informatics and Data Analytics to Support Exposome-Based Discovery for Public Health. <i>Annual Review of Public Health</i> , 2017 , 38, 279-294	20.6	68
43	Estrogen receptor reduces CYP1A1 induction in cultured human endometrial cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 3430-8	5.4	65

42	Heavy Metal Exposure and Metabolic Syndrome: Evidence from Human and Model System Studies. <i>Current Environmental Health Reports</i> , 2018 , 5, 110-124	6.5	64
41	Genetic and environmental pathways to complex diseases. <i>BMC Systems Biology</i> , 2009 , 3, 46	3.5	62
40	The Comparative Toxicogenomics Database facilitates identification and understanding of chemical-gene-disease associations: arsenic as a case study. <i>BMC Medical Genomics</i> , 2008 , 1, 48	3.7	53
39	Text mining effectively scores and ranks the literature for improving chemical-gene-disease curation at the comparative toxicogenomics database. <i>PLoS ONE</i> , 2013 , 8, e58201	3.7	52
38	Posttranscriptional silencing of cytochrome P4501A1 (CYP1A1) during zebrafish (<i>Danio rerio</i>) development. <i>Developmental Dynamics</i> , 2001 , 222, 645-54	2.9	48
37	Providing the missing link: the exposure science ontology ExO. <i>Environmental Science & Technology</i> , 2012 , 46, 3046-53	10.3	45
36	Perturbation of defense pathways by low-dose arsenic exposure in zebrafish embryos. <i>Environmental Health Perspectives</i> , 2009 , 117, 981-7	8.4	44
35	Accessing an Expanded Exposure Science Module at the Comparative Toxicogenomics Database. <i>Environmental Health Perspectives</i> , 2018 , 126, 014501	8.4	41
34	2,3,7,8-Tetrachlorodibenzo-p-dioxin upregulates FoxQ1b in zebrafish jaw primordium. <i>Chemical Research in Toxicology</i> , 2010 , 23, 480-7	4	38
33	Ranking transitive chemical-disease inferences using local network topology in the comparative toxicogenomics database. <i>PLoS ONE</i> , 2012 , 7, e46524	3.7	35
32	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
31	Cadmium exposure increases the risk of juvenile obesity: a human and zebrafish comparative study. <i>International Journal of Obesity</i> , 2018 , 42, 1285-1295	5.5	32
30	Chemical-Induced Phenotypes at CTD Help Inform the Predisease State and Construct Adverse Outcome Pathways. <i>Toxicological Sciences</i> , 2018 , 165, 145-156	4.4	31
29	The curation paradigm and application tool used for manual curation of the scientific literature at the Comparative Toxicogenomics Database. <i>Database: the Journal of Biological Databases and Curation</i> , 2011 , 2011, bar034	5	31
28	Collaborative biocuration--text-mining development task for document prioritization for curation. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas037	5	30
27	Promoting comparative molecular studies in environmental health research: an overview of the comparative toxicogenomics database (CTD). <i>Pharmacogenomics Journal</i> , 2004 , 4, 5-8	3.5	29
26	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
25	Beyond the looking glass: recent advances in understanding the impact of environmental exposures on neuropsychiatric disease. <i>Neuropsychopharmacology</i> , 2020 , 45, 1086-1096	8.7	27

24	Generating Gene Ontology-Disease Inferences to Explore Mechanisms of Human Disease at the Comparative Toxicogenomics Database. <i>PLoS ONE</i> , 2016 , 11, e0155530	3.7	20
23	Web services-based text-mining demonstrates broad impacts for interoperability and process simplification. <i>Database: the Journal of Biological Databases and Curation</i> , 2014 , 2014,	5	19
22	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
21	An evaluation of information content as a metric for the inference of putative conserved noncoding regions in DNA sequences using a genetic algorithms approach. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008 , 5, 1-14	3	17
20	Cell and molecular biology of marine elasmobranchs: <i>Squalus acanthias</i> and <i>Raja erinacea</i> . <i>Zebrafish</i> , 2004 , 1, 111-20	2	16
19	Laying a Community-Based Foundation for Data-Driven Semantic Standards in Environmental Health Sciences. <i>Environmental Health Perspectives</i> , 2016 , 124, 1136-40	8.4	15
18	Chemical databases for environmental health and clinical research. <i>Toxicology Letters</i> , 2009 , 186, 62-5	4.4	14
17	BioC interoperability track overview. <i>Database: the Journal of Biological Databases and Curation</i> , 2014 , 2014,	5	13
16	GeneComps and ChemComps: a new CTD metric to identify genes and chemicals with shared toxicogenomic profiles. <i>Bioinformatics</i> , 2009 , 4, 173-4	1.1	12
15	Leveraging the Comparative Toxicogenomics Database to Fill in Knowledge Gaps for Environmental Health: A Test Case for Air Pollution-induced Cardiovascular Disease. <i>Toxicological Sciences</i> , 2020 , 177, 392-404	4.4	12
14	Disease model curation improvements at Mouse Genome Informatics. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bar063	5	10
13	CTD Anatomy: analyzing chemical-induced phenotypes and exposures from an anatomical perspective, with implications for environmental health studies. <i>Current Research in Toxicology</i> , 2021 , 2, 128-139	2.7	10
12	Integration of curated and high-throughput screening data to elucidate environmental influences on disease pathways. <i>Computational Toxicology</i> , 2019 , 12,	3.1	8
11	Aquatic models, genomics and chemical risk management. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012 , 155, 169-73	3.2	8
10	Targeted journal curation as a method to improve data currency at the Comparative Toxicogenomics Database. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas051	5	8
9	DiseaseComps: a metric that discovers similar diseases based upon common toxicogenomic profiles at CTD. <i>Bioinformatics</i> , 2011 , 7, 154-6	1.1	7
8	Applying evolutionary genetics to developmental toxicology and risk assessment. <i>Reproductive Toxicology</i> , 2017 , 69, 174-186	3.4	6
7	Public data sources to support systems toxicology applications. <i>Current Opinion in Toxicology</i> , 2019 , 16, 17-24	4.4	6

6	Cadmium exposure and methylation differences between Whites and African Americans in the NEST Cohort. <i>Environmental Epigenetics</i> , 2019 , 5, dvz014	2.4	5
5	Marine organism cell biology and regulatory sequence discovery in comparative functional genomics. <i>Cytotechnology</i> , 2004 , 46, 123-37	2.2	5
4	Predicting molecular mechanisms, pathways, and health outcomes induced by Juul e-cigarette aerosol chemicals using the Comparative Toxicogenomics Database. <i>Current Research in Toxicology</i> , 2021 , 2, 272-281	2.7	5
3	Regulatory Status of Pesticide Residues in Cannabis: Implications to Medical Use in Neurological Diseases. <i>Current Research in Toxicology</i> , 2021 , 2, 140-148	2.7	2
2	2007,		1
1	It's not junk!. <i>ACM SIGEVolution</i> , 2008 , 3, 5-16	0.1	