

Paul L Carmichael

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.

94
papers

3,458
citations

33
h-index

56
g-index

105
ext. papers

3,871
ext. citations

4.7
avg, IF

4.84
L-index

#	Paper	IF	Citations
94	Different levels of polybrominated diphenyl ethers (PBDEs) and chlorinated compounds in breast milk from two U.K. Regions. <i>Environmental Health Perspectives</i> , 2004 , 112, 1085-91	8.4	180
93	Extracting biological information with computational analysis of Fourier-transform infrared (FTIR) biospectroscopy datasets: current practices to future perspectives. <i>Analyst, The</i> , 2012 , 137, 3202-15	5	167
92	Reduction of misleading ("false") positive results in mammalian cell genotoxicity assays. I. Choice of cell type. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 742, 11-25	3	154
91	Toxicity testing in the 21 century: defining new risk assessment approaches based on perturbation of intracellular toxicity pathways. <i>PLoS ONE</i> , 2011 , 6, e20887	3.7	148
90	Generation of putative intrastrand cross-links and strand breaks in DNA by transition metal ion-mediated oxygen radical attack. <i>Chemical Research in Toxicology</i> , 1997 , 10, 393-400	4	145
89	Biospectroscopy to metabolically profile biomolecular structure: a multistage approach linking computational analysis with biomarkers. <i>Journal of Proteome Research</i> , 2011 , 10, 1437-48	5.6	140
88	Comparison of the formation of 8-hydroxy-2Sdeoxyguanosine and single- and double-strand breaks in DNA mediated by fenton reactions. <i>Chemical Research in Toxicology</i> , 1998 , 11, 420-7	4	123
87	Analysis of tamoxifen and its metabolites by on-line capillary electrophoresis-electrospray ionization mass spectrometry employing nonaqueous media containing surfactants. <i>Analytical Chemistry</i> , 1996 , 68, 668-74	7.8	122
86	IRootLab: a free and open-source MATLAB toolbox for vibrational biospectroscopy data analysis. <i>Bioinformatics</i> , 2013 , 29, 1095-7	7.2	112
85	Implementing Toxicity Testing in the 21st Century (TT21C): Making safety decisions using toxicity pathways, and progress in a prototype risk assessment. <i>Toxicology</i> , 2015 , 332, 102-11	4.4	100
84	Activation of tamoxifen and its metabolite alpha-hydroxytamoxifen to DNA-binding products: comparisons between human, rat and mouse hepatocytes. <i>Carcinogenesis</i> , 1996 , 17, 89-94	4.6	86
83	Evaluation of an automated in vitro micronucleus assay in CHO-K1 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007 , 630, 1-13	3	80
82	Anergic T cells effect linked suppression. <i>European Journal of Immunology</i> , 1997 , 27, 3191-7	6.1	76
81	Detection and characterization by ³² P-postlabelling of DNA adducts induced by a Fenton-type oxygen radical-generating system. <i>Carcinogenesis</i> , 1992 , 13, 1127-35	4.6	71
80	Induction of activating mutations in the human c-Ha-ras-1 proto-oncogene by oxygen free radicals. <i>Molecular Carcinogenesis</i> , 1994 , 11, 170-5	5	68
79	Doxorubicin-induced mitophagy and mitochondrial damage is associated with dysregulation of the PINK1/parkin pathway. <i>Toxicology in Vitro</i> , 2018 , 51, 1-10	3.6	64
78	Reduction of misleading ("false") positive results in mammalian cell genotoxicity assays. II. Importance of accurate toxicity measurement. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 747, 104-117	3	62

77	Cell transformation assays for prediction of carcinogenic potential: state of the science and future research needs. <i>Mutagenesis</i> , 2012 , 27, 93-101	2.8	62
76	Pathways of Toxicity. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 53-61	4.3	59
75	Analysis of the polycyclic aromatic hydrocarbon content of petrol and diesel engine lubricating oils and determination of DNA adducts in topically treated mice by 32P-postlabelling. <i>Carcinogenesis</i> , 1990 , 11, 2025-32	4.6	54
74	Detection of bulky DNA lesions in the liver of patients with Wilson's disease and primary haemochromatosis. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1995 , 326, 235-43	3.3	51
73	Erythropoietin activates SIRT1 to protect human cardiomyocytes against doxorubicin-induced mitochondrial dysfunction and toxicity. <i>Toxicology Letters</i> , 2017 , 275, 28-38	4.4	50
72	A tiered approach to the use of alternatives to animal testing for the safety assessment of cosmetics: genotoxicity. A COLIPA analysis. <i>Regulatory Toxicology and Pharmacology</i> , 2010 , 57, 315-24	3.4	50
71	The carcinoGENOMICS project: critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays. <i>Mutation Research - Reviews in Mutation Research</i> , 2008 , 659, 202-10	7	50
70	Adaptive Posttranslational Control in Cellular Stress Response Pathways and Its Relationship to Toxicity Testing and Safety Assessment. <i>Toxicological Sciences</i> , 2015 , 147, 302-16	4.4	46
69	Syrian hamster embryo (SHE) assay (pH 6.7) coupled with infrared spectroscopy and chemometrics towards toxicological assessment. <i>Analyst, The</i> , 2010 , 135, 3266-72	5	44
68	Reduction of misleading ("false") positive results in mammalian cell genotoxicity assays. III: sensitivity of human cell types to known genotoxic agents. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014 , 767, 28-36	3	41
67	Metabolic activation and DNA binding of food mutagens and other environmental carcinogens in human mammary epithelial cells. <i>Carcinogenesis</i> , 1996 , 17, 1769-72	4.6	40
66	Profiling dose-dependent activation of p53-mediated signaling pathways by chemicals with distinct mechanisms of DNA damage. <i>Toxicological Sciences</i> , 2014 , 142, 56-73	4.4	38
65	A Next-Generation Risk Assessment Case Study for Coumarin in Cosmetic Products. <i>Toxicological Sciences</i> , 2020 , 176, 236-252	4.4	36
64	Electrospray ionization-tandem mass spectrometry and 32P-postlabeling analyses of tamoxifen-DNA adducts in humans. <i>Journal of the National Cancer Institute</i> , 2004 , 96, 1099-104	9.7	35
63	Can case study approaches speed implementation of the NRC report: "toxicity testing in the 21st century: a vision and a strategy?". <i>ALTEX: Alternatives To Animal Experimentation</i> , 2011 , 28, 175-82	4.3	34
62	Microspectroscopy of spectral biomarkers associated with human corneal stem cells. <i>Molecular Vision</i> , 2010 , 16, 359-68	2.3	30
61	A PGC-1 β -Mediated Transcriptional Network Maintains Mitochondrial Redox and Bioenergetic Homeostasis against Doxorubicin-Induced Toxicity in Human Cardiomyocytes: Implementation of TT21C. <i>Toxicological Sciences</i> , 2016 , 150, 400-17	4.4	29
60	Pro-oxidant induced DNA damage in human lymphoblastoid cells: homeostatic mechanisms of genotoxic tolerance. <i>Toxicological Sciences</i> , 2012 , 128, 387-97	4.4	27

59	Gene expression changes induced by estrogen and selective estrogen receptor modulators in primary-cultured human endometrial cells: signals that distinguish the human carcinogen tamoxifen. <i>Toxicology</i> , 2005 , 206, 91-109	4.4	27
58	Contributions of DNA repair and damage response pathways to the non-linear genotoxic responses of alkylating agents. <i>Mutation Research - Reviews in Mutation Research</i> , 2016 , 767, 77-91	7	26
57	Suppression of NRF2-ARE activity sensitizes chemotherapeutic agent-induced cytotoxicity in human acute monocytic leukemia cells. <i>Toxicology and Applied Pharmacology</i> , 2016 , 292, 1-7	4.6	26
56	Assessing dose-dependent differences in DNA-damage, p53 response and genotoxicity for quercetin and curcumin. <i>Toxicology in Vitro</i> , 2013 , 27, 1877-87	3.6	26
55	N-demethylation accompanies alpha-hydroxylation in the metabolic activation of tamoxifen in rat liver cells. <i>Carcinogenesis</i> , 1999 , 20, 2003-9	4.6	26
54	Isolating stem cells in the inter-follicular epidermis employing synchrotron radiation-based Fourier-transform infrared microspectroscopy and focal plane array imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1745-58	4.4	25
53	Tamoxifen does not form detectable DNA adducts in white blood cells of breast cancer patients. <i>Carcinogenesis</i> , 1996 , 17, 1149-52	4.6	25
52	mRNA transfection retrofits cell-based assays with xenobiotic metabolism. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018 , 92, 77-94	1.7	24
51	Measuring similarity and improving stability in biomarker identification methods applied to Fourier-transform infrared (FTIR) spectroscopy. <i>Journal of Biophotonics</i> , 2014 , 7, 254-65	3.1	23
50	Discrimination of a transformation phenotype in Syrian golden hamster embryo (SHE) cells using ATR-FTIR spectroscopy. <i>Toxicology</i> , 2009 , 258, 33-8	4.4	23
49	Mechanisms of action of antiestrogens: relevance to clinical benefits and risks. <i>Cancer Investigation</i> , 1998 , 16, 604-11	2.1	23
48	Identifying and Characterizing Stress Pathways of Concern for Consumer Safety in Next-Generation Risk Assessment. <i>Toxicological Sciences</i> , 2020 , 176, 11-33	4.4	22
47	Genotoxic effects of subacute treatments with wood dust extracts on the nasal epithelium of rats: assessment by the micronucleus and 32P-postlabelling. <i>Archives of Toxicology</i> , 1993 , 67, 586-9	5.8	19
46	Vision of a near future: Bridging the human health-environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020 , 62, 104692	3.6	19
45	Towards a non-animal risk assessment for anti-androgenic effects in humans. <i>Environment International</i> , 2015 , 83, 94-106	12.9	18
44	Assuring consumer safety without animal testing: a feasibility case study for skin sensitisation. <i>ATLA Alternatives To Laboratory Animals</i> , 2008 , 36, 557-68	2.1	18
43	Percutaneous penetration and genotoxicity of 4,4Smethylenedianiline through rat and human skin in vitro. <i>Toxicology</i> , 2004 , 196, 65-75	4.4	18
42	Genomic phenotyping of the essential and non-essential yeast genome detects novel pathways for alkylation resistance. <i>BMC Systems Biology</i> , 2011 , 5, 157	3.5	17

41	DNA adduct formation in mice following treatment with used engine oil and identification of some of the major adducts by 32P-postlabelling. <i>Cancer Letters</i> , 1992 , 64, 137-44	9.9	16
40	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	3.4	15
39	Correlation of tumors with DNA adducts from methyl eugenol and tamoxifen in rats. <i>Toxicological Sciences</i> , 2004 , 79, 38-40	4.4	15
38	A mode-of-action ontology model for safety evaluation of chemicals: Outcome of a series of workshops on repeated dose toxicity. <i>Toxicology in Vitro</i> , 2019 , 59, 44-50	3.6	13
37	Non-animal approaches for consumer safety risk assessments: Unilever's scientific research programme. <i>ATLA Alternatives To Laboratory Animals</i> , 2009 , 37, 595-610	2.1	12
36	Mechanisms of hormonal carcinogenesis in the p53+/- hemizygous knockout mouse: studies with diethylstilbestrol. <i>Toxicologic Pathology</i> , 2001 , 29 Suppl, 155-60	2.1	12
35	Non-cytotoxic concentrations of acetaminophen induced mitochondrial biogenesis and antioxidant response in HepG2 cells. <i>Environmental Toxicology and Pharmacology</i> , 2016 , 46, 71-79	5.8	11
34	International Harmonization and Cooperation in the Validation of Alternative Methods. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 856, 343-386	3.6	11
33	A comparison of gene expression changes in response to diethylstilbestrol treatment in wild-type and p53+/- hemizygous knockout mice using focussed arrays. <i>Toxicology</i> , 2003 , 185, 49-57	4.4	10
32	Integrated in silico approaches for the prediction of Ames test mutagenicity. <i>Journal of Computer-Aided Molecular Design</i> , 2012 , 26, 1017-33	4.2	9
31	The Syrian hamster embryo (SHE) assay (pH 6.7): mechanisms of cell transformation and application of vibrational spectroscopy to objectively score endpoint alterations. <i>Mutagenesis</i> , 2012 , 27, 257-66	2.8	9
30	Employing Dietary Comparators to Perform Risk Assessments for Anti-Androgens Without Using Animal Data. <i>Toxicological Sciences</i> , 2019 , 167, 375-384	4.4	8
29	Case Studies in Cellular Stress: Defining Adversity/Adaptation Tipping Points. <i>Applied in Vitro Toxicology</i> , 2017 , 3, 199-210	1.3	7
28	Pathway Based Toxicology and Fit-for-Purpose Assays. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 856, 205-230	3.6	7
27	Flutamide Induces Hepatic Cell Death and Mitochondrial Dysfunction via Inhibition of Nrf2-Mediated Heme Oxygenase-1. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 8017073	6.7	7
26	China begins to position for leadership on responsible risk-based global chemicals management. <i>Environmental Pollution</i> , 2012 , 165, 170-3	9.3	7
25	The Alginate Immobilization of Metabolic Enzymes Platform Retrofits an Estrogen Receptor Transactivation Assay With Metabolic Competence. <i>Toxicological Sciences</i> , 2020 , 178, 281-301	4.4	7
24	Integration of in vitro data from three dimensionally cultured HepaRG cells and physiologically based pharmacokinetic modeling for assessment of acetaminophen hepatotoxicity. <i>Regulatory Toxicology and Pharmacology</i> , 2020 , 114, 104661	3.4	6

23	Classification of test agent-specific effects in the Syrian hamster embryo assay (pH 6.7) using infrared spectroscopy with computational analysis. <i>Mutagenesis</i> , 2012 , 27, 375-82	2.8	6
22	A metabolomic and multivariate statistical process to assess the effects of genotoxins in <i>Saccharomyces cerevisiae</i> . <i>Molecular BioSystems</i> , 2009 , 5, 1913-24		6
21	Differences in susceptibility between crystallins and non-lenticular proteins to copper and H ₂ O ₂ -mediated peptide bond cleavage. <i>Free Radical Research Communications</i> , 1991 , 15, 101-10		6
20	Gene expression profiling of p53(+/-) knockout and wild-type mice following diethylstilbestrol administration. <i>IUBMB Life</i> , 2004 , 56, 409-16	4.7	5
19	Implementing organ-on-chip in a next-generation risk assessment of chemicals: a review.. <i>Archives of Toxicology</i> , 2022 , 96, 711	5.8	5
18	Classification of agents using Syrian hamster embryo (SHE) cell transformation assay (CTA) with ATR-FTIR spectroscopy and multivariate analysis. <i>Mutagenesis</i> , 2015 , 30, 603-12	2.8	4
17	Correspondence regarding M. Sharma et al., "Antioxidant inhibits tamoxifen-DNA adducts in endometrial explant culture". <i>Biochemical and Biophysical Research Communications</i> , 2003 , 310, 1039	3.4	4
16	Integrating in vitro testing and physiologically-based pharmacokinetic (PBPK) modelling for chemical liver toxicity assessment-A case study of troglitazone. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 74, 103296	5.8	4
15	Risk prediction for acute kidney injury in acute medical admissions in the UK. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2019 , 112, 197-205	2.7	4
14	Assuring safety without animal testing: Unilever's ongoing research programme to deliver novel ways to assure consumer safety. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2010 , 27, 61-5	4.3	4
13	A human-derived prostate co-culture microtissue model using epithelial (RWPE-1) and stromal (WPMY-1) cell lines. <i>Toxicology in Vitro</i> , 2019 , 60, 203-211	3.6	3
12	Novel approaches to derive points of departure for food chemical risk assessment. <i>Current Opinion in Food Science</i> , 2019 , 27, 139-144	9.8	3
11	Chemical safety without animals. <i>Nature Biotechnology</i> , 2014 , 32, 541-3	44.5	3
10	Next generation risk assessment of human exposure to anti-androgens using newly defined comparator compound values. <i>Toxicology in Vitro</i> , 2021 , 73, 105132	3.6	3
9	Genomic phenotyping by barcode sequencing broadly distinguishes between alkylating agents, oxidizing agents, and non-genotoxic agents, and reveals a role for aromatic amino acids in cellular recovery after quinone exposure. <i>PLoS ONE</i> , 2013 , 8, e73736	3.7	2
8	Validation of a high throughput bacterial screen for mutagenicity: Incorporation of <i>Salmonella typhimurium</i> strain TA102. <i>Toxicology</i> , 2006 , 226, 72-73	4.4	2
7	Identification of transcriptional biomarkers induced by SERMS in human endometrial cells using multivariate analysis of DNA microarrays. <i>Biomarkers</i> , 2004 , 9, 447-60	2.6	2
6	Beyond AOPs: A Mechanistic Evaluation of NAMs in DART Testing.. <i>Frontiers in Toxicology</i> , 2022 , 4, 838466		2

5	Development of a human keratinocyte cell line that is up-regulated for the expression of superoxide dismutase 1 (SOD1). <i>Toxicology</i> , 2006 , 226, 74-75	4.4	1
4	Detection of low levels of DNA damage arising from exposure of humans to chemical carcinogens. <i>Archives of Toxicology Supplement</i> , 1998 , 20, 199-205		1
3	Next generation risk assessment (NGRA): Bridging in vitro points-of-departure to human safety assessment using physiologically-based kinetic (PBK) modelling - A case study of doxorubicin with dose metrics considerations. <i>Toxicology in Vitro</i> , 2021 , 74, 105171	3.6	1
2	Catabolism of aberrant crystallin in cell-free extracts of bovine lens: effects of animal age. <i>Biochemical Society Transactions</i> , 1989 , 17, 181-182	5.1	
1	Differential susceptibility of crystallin and other proteins to free-radical-induced peptide bond cleavage. <i>Biochemical Society Transactions</i> , 1989 , 17, 494-495	5.1	