

H Carmo

List of Publications by Year in descending order

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107
papers

3,788
citations

159525

30
h-index

149623

56
g-index

133
all docs

133
docs citations

133
times ranked

4783
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity of amphetamines: an update. Archives of Toxicology, 2012, 86, 1167-1231.	1.9	364
2	Modulation of P-glycoprotein efflux pump: induction and activation as a therapeutic strategy. , 2015, 149, 1-123.		275
3	Paraquat exposure as an etiological factor of Parkinson's disease. NeuroToxicology, 2006, 27, 1110-1122.	1.4	273
4	Molecular and Cellular Mechanisms of Ecstasy-Induced Neurotoxicity: An Overview. Molecular Neurobiology, 2009, 39, 210-271.	1.9	251
5	Piperazine compounds as drugs of abuse. Drug and Alcohol Dependence, 2012, 122, 174-185.	1.6	150
6	Toxicogenomics directory of chemically exposed human hepatocytes. Archives of Toxicology, 2014, 88, 2261-2287.	1.9	143
7	Short- and long-term distribution and toxicity of gold nanoparticles in the rat after a single-dose intravenous administration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1757-1766.	1.7	117
8	Influence of the surface coating on the cytotoxicity, genotoxicity and uptake of gold nanoparticles in human HepG2 cells. Journal of Applied Toxicology, 2013, 33, 1111-1119.	1.4	92
9	Cellular Models and In Vitro Assays for the Screening of modulators of P-gp, MRP1 and BCRP. Molecules, 2017, 22, 600.	1.7	91
10	Metabolic pathways of 4-bromo-2,5-dimethoxyphenethylamine (2C-B): analysis of phase I metabolism with hepatocytes of six species including human. Toxicology, 2005, 206, 75-89.	2.0	78
11	Effect of surface coating on the biodistribution profile of gold nanoparticles in the rat. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 185-193.	2.0	76
12	Protective ability against oxidative stress of brewers'™ spent grain protein hydrolysates. Food Chemistry, 2017, 228, 602-609.	4.2	64
13	GC Determination of Acetone, Acetaldehyde, Ethanol, and Methanol in Biological Matrices and Cell Culture. Journal of Chromatographic Science, 2009, 47, 272-278.	0.7	60
14	Hepcidin messenger RNA expression in human lymphocytes. Immunology, 2010, 130, 217-230.	2.0	59
15	An insight into the hepatocellular death induced by amphetamines, individually and in combination: the involvement of necrosis and apoptosis. Archives of Toxicology, 2013, 87, 2165-2185.	1.9	55
16	Combination effects of amphetamines under hyperthermia - the role played by oxidative stress. Journal of Applied Toxicology, 2014, 34, 637-650.	1.4	55
17	Simultaneous determination of amphetamine derivatives in human urine after SPE extraction and HPLC-UV analysis. Biomedical Chromatography, 2004, 18, 125-131.	0.8	54
18	In vitro study of P-glycoprotein induction as an antidotal pathway to prevent cytotoxicity in Caco-2 cells. Archives of Toxicology, 2011, 85, 315-326.	1.9	51

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19	Cu ²⁺ -Induced Isoproterenol Oxidation into Isoprenochrome in Adult Rat Calcium-Tolerant Cardiomyocytes. <i>Chemical Research in Toxicology</i> , 2002, 15, 861-869.	1.7	49
20	Gold Nanoparticles Induce Oxidative Stress and Apoptosis in Human Kidney Cells. <i>Nanomaterials</i> , 2020, 10, 995.	1.9	46
21	Influence of CYP2D6 polymorphism on 3,4-methylenedioxyamphetamine (â€˜Ecstasyâ€™) cytotoxicity. <i>Pharmacogenetics and Genomics</i> , 2006, 16, 789-799.	0.7	44
22	Inhibition of Glutathione Reductase by Isoproterenol Oxidation Products. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1999, 15, 47-61.	0.5	43
23	Piperazine designer drugs induce toxicity in cardiomyoblast h9c2 cells through mitochondrial impairment. <i>Toxicology Letters</i> , 2014, 229, 178-189.	0.4	43
24	Copper Enhances Isoproterenol Toxicity in Isolated Rat Cardiomyocytes: Effects on Oxidative Stress. <i>Cardiovascular Toxicology</i> , 2001, 1, 195-204.	1.1	40
25	Comparative metabolism of the designer drug 4-methylthioamphetamine by hepatocytes from man, monkey, dog, rabbit, rat and mouse. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004, 369, 198-205.	1.4	40
26	Chronic exposure to ethanol exacerbates MDMA-induced hyperthermia and exposes liver to severe MDMA-induced toxicity in CD1 mice. <i>Toxicology</i> , 2008, 252, 64-71.	2.0	40
27	Hepatotoxicity of piperazine designer drugs: Comparison of different in vitro models. <i>Toxicology in Vitro</i> , 2015, 29, 987-996.	1.1	37
28	Induction and activation of P-glycoprotein by dihydroxylated xanthenes protect against the cytotoxicity of the P-glycoprotein substrate paraquat. <i>Archives of Toxicology</i> , 2014, 88, 937-951.	1.9	36
29	Cocaine: An Updated Overview on Chemistry, Detection, Biokinetics, and Pharmacotoxicological Aspects including Abuse Pattern. <i>Toxins</i> , 2022, 14, 278.	1.5	35
30	P-glycoprotein induction in Caco-2 cells by newly synthesized thioxanthenes prevents paraquat cytotoxicity. <i>Archives of Toxicology</i> , 2015, 89, 1783-1800.	1.9	34
31	Mercury fatal intoxication: Two case reports. <i>Forensic Science International</i> , 2009, 184, e1-e6.	1.3	33
32	Colchicine effect on P-glycoprotein expression and activity: In silico and in vitro studies. <i>Chemico-Biological Interactions</i> , 2014, 218, 50-62.	1.7	33
33	The synthetic cannabinoid XLR-11 induces in vitro nephrotoxicity by impairment of endocannabinoid-mediated regulation of mitochondrial function homeostasis and triggering of apoptosis. <i>Toxicology Letters</i> , 2018, 287, 59-69.	0.4	32
34	Hepatotoxicity of piperazine designer drugs: up-regulation of key enzymes of cholesterol and lipid biosynthesis. <i>Archives of Toxicology</i> , 2016, 90, 3045-3060.	1.9	31
35	<i>In vitro</i> neurotoxicity evaluation of piperazine designer drugs in differentiated human neuroblastoma SH-SY5Y cells. <i>Journal of Applied Toxicology</i> , 2016, 36, 121-130.	1.4	30
36	Synthetic cannabinoids and their impact on neurodevelopmental processes. <i>Addiction Biology</i> , 2020, 25, e12824.	1.4	29

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37	The novel psychoactive substance 3-methylmethcathinone (3-MMC or metaphedrone): A review. <i>Forensic Science International</i> , 2019, 295, 54-63.	1.3	28
38	CYP2D6 increases toxicity of the designer drug 4-methylthioamphetamine (4-MTA). <i>Toxicology</i> , 2007, 229, 236-244.	2.0	27
39	Synergistic toxicity of ethanol and MDMA towards primary cultured rat hepatocytes. <i>Toxicology</i> , 2008, 254, 42-50.	2.0	27
40	Epigenetics and the endocannabinoid system signaling: An intricate interplay modulating neurodevelopment. <i>Pharmacological Research</i> , 2020, 162, 105237.	3.1	27
41	Simultaneous determination of reduced and oxidized glutathione in freshly isolated rat hepatocytes and cardiomyocytes by HPLC with electrochemical detection. <i>Biomedical Chromatography</i> , 2000, 14, 468-473.	0.8	26
42	Development and validation of a GC/IT-MS method for simultaneous quantitation of para and meta-synephrine in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 721-726.	1.4	26
43	Impact of in Vitro Gastrointestinal Digestion and Transepithelial Transport on Antioxidant and ACE-Inhibitory Activities of Brewer's Spent Yeast Autolysate. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7335-7341.	2.4	26
44	A multiparametric study of gold nanoparticles cytotoxicity, internalization and permeability using an <i>in vitro</i> model of blood-brain barrier. Influence of size, shape and capping agent. <i>Nanotoxicology</i> , 2019, 13, 990-1004.	1.6	26
45	Doxorubicin decreases paraquat accumulation and toxicity in Caco-2 cells. <i>Toxicology Letters</i> , 2013, 217, 34-41.	0.4	23
46	Newly Synthesized Oxygenated Xanthenes as Potential P-Glycoprotein Activators: In Vitro, Ex Vivo, and In Silico Studies. <i>Molecules</i> , 2019, 24, 707.	1.7	22
47	The new psychoactive substance 3-methylmethcathinone (3-MMC or metaphedrone) induces oxidative stress, apoptosis, and autophagy in primary rat hepatocytes at human-relevant concentrations. <i>Archives of Toxicology</i> , 2019, 93, 2617-2634.	1.9	21
48	Hydrogen peroxide production in mouse tissues after acute d-amphetamine administration. Influence of monoamine oxidase inhibition. <i>Archives of Toxicology</i> , 2001, 75, 465-469.	1.9	20
49	Cytotoxic effects of amphetamine mixtures in primary hepatocytes are severely aggravated under hyperthermic conditions. <i>Toxicology in Vitro</i> , 2013, 27, 1670-1678.	1.1	20
50	In vitro hepatotoxicity of Legal X™: the combination of 1-benzylpiperazine (BZP) and 1-(m-trifluoromethylphenyl)piperazine (TFMPP) triggers oxidative stress, mitochondrial impairment and apoptosis. <i>Archives of Toxicology</i> , 2017, 91, 1413-1430.	1.9	20
51	4-methylthioamphetamine-induced hyperthermia in mice: influence of serotonergic and catecholaminergic pathways. <i>Toxicology and Applied Pharmacology</i> , 2003, 190, 262-271.	1.3	19
52	Gas chromatography-ion trap mass spectrometry method for the simultaneous measurement of MDMA (ecstasy) and its metabolites, MDA, HMA, and HMMA in plasma and urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 815-822.	1.2	19
53	The risky cocktail: what combination effects can we expect between ecstasy and other amphetamines?. <i>Archives of Toxicology</i> , 2013, 87, 111-122.	1.9	19
54	Metabolism of the designer drug 4-bromo-2,5-dimethoxyphenethylamine (2C-B) in mice, after acute administration. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 811, 143-152.	1.2	18

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55	Ethanol addictively enhances the in vitro cardiotoxicity of cocaine through oxidative damage, energetic deregulation, and apoptosis. <i>Archives of Toxicology</i> , 2018, 92, 2311-2325.	1.9	18
56	Synthetic Cannabinoids JWH-122 and THJ-2201 Disrupt Endocannabinoid-Regulated Mitochondrial Function and Activate Apoptotic Pathways as a Primary Mechanism of In Vitro Nephrotoxicity at In Vivo Relevant Concentrations. <i>Toxicological Sciences</i> , 2019, 169, 422-435.	1.4	18
57	Metabolism of the designer drug 4-bromo-2,5-dimethoxyphenethylamine (2C-B) in mice, after acute administration. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 811, 143-152.	1.2	18
58	Mixtures of 3,4-methylenedioxyamphetamine (<i>ecstasy</i>) and its major human metabolites act additively to induce significant toxicity to liver cells when combined at low, non-cytotoxic concentrations. <i>Journal of Applied Toxicology</i> , 2014, 34, 618-627.	1.4	17
59	Several transport systems contribute to the intestinal uptake of Paraquat, modulating its cytotoxic effects. <i>Toxicology Letters</i> , 2015, 232, 271-283.	0.4	17
60	The Synthetic Cannabinoids THJ-2201 and 5F-PB22 Enhance In Vitro CB1 Receptor-Mediated Neuronal Differentiation at Biologically Relevant Concentrations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6277.	1.8	16
61	Study of the intestinal uptake and permeability of gold nanoparticles using both<i>in vitro</i>and<i>in vivo</i>approaches. <i>Nanotechnology</i> , 2020, 31, 195102.	1.3	16
62	Overview of Synthetic Cannabinoids ADB-FUBINACA and AMB-FUBINACA: Clinical, Analytical, and Forensic Implications. <i>Pharmaceuticals</i> , 2021, 14, 186.	1.7	16
63	<i>Benzo fur</i>y: A new trend in the drug misuse scene. <i>Journal of Applied Toxicology</i> , 2019, 39, 1083-1095.	1.4	15
64	A Metabolomic Approach for the In Vivo Study of Gold Nanospheres and Nanostars after a Single-Dose Intravenous Administration to Wistar Rats. <i>Nanomaterials</i> , 2019, 9, 1606.	1.9	15
65	Diet aid or aid to die: an update on 2,4-dinitrophenol (2,4-DNP) use as a weight-loss product. <i>Archives of Toxicology</i> , 2020, 94, 1071-1083.	1.9	15
66	Toxicological Evaluation of Luminescent Silica Nanoparticles as New Drug Nanocarriers in Different Cancer Cell Lines. <i>Materials</i> , 2018, 11, 1310.	1.3	14
67	Evaluation of GSH adducts of adrenaline in biological samples. <i>Biomedical Chromatography</i> , 2007, 21, 670-679.	0.8	12
68	Quantification of Methadone and Main Metabolites in Nails. <i>Journal of Analytical Toxicology</i> , 2018, 42, 192-206.	1.7	12
69	Drinking to death: Hyponatraemia induced by synthetic phenethylamines. <i>Drug and Alcohol Dependence</i> , 2020, 212, 108045.	1.6	12
70	CARDIOTOXICITY STUDIES USING FRESHLY ISOLATED CALCIUM-TOLERANT CARDIOMYOCYTES FROM ADULT RAT. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2001, 37, 1.	0.7	11
71	Water extracts of <i>Brassica oleracea</i> var. <i>costata</i> potentiate paraquat toxicity to rat hepatocytes in vitro. <i>Toxicology in Vitro</i> , 2009, 23, 1131-1138.	1.1	11
72	Metabolic interactions between ethanol and MDMA in primary cultured rat hepatocytes. <i>Toxicology</i> , 2010, 270, 150-157.	2.0	11

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73	Emerging club drugs: 5-(2-aminopropyl)benzofuran (5-APB) is more toxic than its isomer 6-(2-aminopropyl)benzofuran (6-APB) in hepatocyte cellular models. Archives of Toxicology, 2020, 94, 609-629.	1.9	11
74	Identification of 4-Methylthioamphetamine and Some of its Metabolites in Mouse Urine by GC-MS after Acute Administration. Journal of Analytical Toxicology, 2002, 26, 228-232.	1.7	10
75	Implementation of an in vitro methodology for phototoxicity evaluation in a human keratinocyte cell line. Toxicology in Vitro, 2019, 61, 104618.	1.1	9
76	Efficacy, Stability, and Safety Evaluation of New Polyphenolic Xanthenes Towards Identification of Bioactive Compounds to Fight Skin Photoaging. Molecules, 2020, 25, 2782.	1.7	8
77	The study of oxidative stress in freshly isolated Ca ²⁺ -tolerant cardiomyocytes from the adult rat. Toxicology in Vitro, 2001, 15, 283-287.	1.1	7
78	The Use of Feathers from Racing Pigeons for Doping Control Purposes. Journal of Analytical Toxicology, 2019, 43, 307-315.	1.7	7
79	Molecular basis of mood and cognitive adverse events elucidated via a combination of pharmacovigilance data mining and functional enrichment analysis. Archives of Toxicology, 2020, 94, 2829-2845.	1.9	7
80	Doping detection in animals: A review of analytical methodologies published from 1990 to 2019. Drug Testing and Analysis, 2021, 13, 474-504.	1.6	7
81	4-Fluoromethamphetamine (4-FMA) induces in vitro hepatotoxicity mediated by CYP2E1, CYP2D6, and CYP3A4 metabolism. Toxicology, 2021, 463, 152988.	2.0	7
82	Pharmacokinetics, pharmacodynamics, and toxicity of the new psychoactive substance 3,4-dimethylmethcathinone (3,4-DMMC). Forensic Toxicology, 2020, 38, 15-29.	1.4	6
83	Biodistribution and metabolic profile of 3,4-dimethylmethcathinone (3,4-DMMC) in Wistar rats through gas chromatography-mass spectrometry (GC-MS) analysis. Toxicology Letters, 2020, 320, 113-123.	0.4	6
84	From street to lab: in vitro hepatotoxicity of buphedrone, butylone and 3,4-DMMC. Archives of Toxicology, 2021, 95, 1443-1462.	1.9	6
85	Piperazine designer drugs elicit toxicity in the alternative in vivo model <i>Caenorhabditis elegans</i> . Journal of Applied Toxicology, 2020, 40, 363-372.	1.4	5
86	In Vitro Evaluation of the Photoreactivity and Phototoxicity of Natural Polyphenol Antioxidants. Molecules, 2022, 27, 189.	1.7	5
87	Determination of formic acid in urine of workers occupationally exposed to formaldehyde. Toxicology Letters, 2010, 196, S74.	0.4	4
88	Quantification of doping compounds in faecal samples from racing pigeons, by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1089, 33-42.	1.2	4
89	Neurotoxicity of psychoactive substances: A mechanistic overview. Current Opinion in Toxicology, 2021, 28, 76-83.	2.6	4
90	Influence of surface coating on the toxicity of gold nanoparticles in Caco-2 cells. Toxicology Letters, 2010, 196, S277.	0.4	2

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91	P-glycoprotein induction by hypericin protects Caco-2 cells against paraquat toxicity. Toxicology Letters, 2011, 205, S93-S94.	0.4	2
92	Cannabinoids and psychosis: current challenges of mechanistic toxicology. , 2021, , 601-615.		2
93	Insights on the relationship between structure vs. toxicological activity of antibacterial rhodamine-labelled 3-hydroxy-4-pyridinone iron(III) chelators in HepG2 cells. Interdisciplinary Toxicology, 2018, 11, 189-199.	1.0	2
94	Ethanol, the forgotten artifact in cell culture. Archives of Toxicology, 2008, 82, 197-198.	1.9	1
95	Low concentration mixtures of MDMA and its major human metabolites induce significant toxicity to liver cells, both at physiological and hyperthermic conditions. Toxicology Letters, 2013, 221, S153.	0.4	1
96	Validation of a HPLC-ECD method for the detection of adrenaline-GSH adducts in biological samples. Toxicology Letters, 2006, 164, S132.	0.4	0
97	Influence of CYP2D6 polymorphism on 3,4-methylenedioxymethamphetamine (‘ecstasy’) cytotoxicity. Toxicology Letters, 2006, 164, S295-S296.	0.4	0
98	Validation of a HPLC-ECD method for the quantification of the highly reactive metabolite of ecstasy, N-methyl-1 \pm -methyldopamine, in human serum. Toxicology Letters, 2006, 164, S309.	0.4	0
99	Influence of CYP2D6 polymorphism on the cytotoxicity of the designer drug 4-methylthioamphetamine (4-MTA). Toxicology Letters, 2007, 172, S40.	0.4	0
100	Effect of P-Glycoprotein inducers on its expression and activity in Caco-2 cells. Toxicology Letters, 2008, 180, S116.	0.4	0
101	The paraquat-induced toxicity is reversed with the co-exposure to doxorubicin in Caco-2 cells. Toxicology Letters, 2010, 196, S110.	0.4	0
102	Piperazine designer drugs present cytotoxicity to primary rat hepatocytes. Toxicology Letters, 2013, 221, S157.	0.4	0
103	Mephedrone. , 2014, , 194-196.		0
104	Induction and activation of P-glycoprotein efflux pump as a therapeutic strategy. Toxicology Letters, 2015, 238, S48.	0.4	0
105	Neurotoxic mixture effects of amphetamines, alcohol, tobacco and caffeine in SHSY-5Y dopaminergic cells ‘ The effect of temperature. Toxicology Letters, 2015, 238, S354.	0.4	0
106	New heterocyclic polyphenols with skin anti-aging potential. , 0, , .		0
107	Drugs of Abuse and Kidney Toxicity. Current Opinion in Toxicology, 2022, , 100360.	2.6	0