Emanuela Testai

List of Publications by Citations

135 papers	4,222 citations	36 h-index	61 g-index
147 ext. papers	4,895 ext. citations	4.6 avg, IF	5.27 L-index

#	Paper	IF	Citations
135	Alternative (non-animal) methods for cosmetics testing: current status and future prospects-2010. *Archives of Toxicology*, **2011**, 85, 367-485	5.8	398
134	Human health risk assessment related to cyanotoxins exposure. *Critical Reviews in Toxicology*, **2008**, 38, 97-125	5.7	302
133	Cyanotoxins: producing organisms, occurrence, toxicity, mechanism of action and human health toxicological risk evaluation. *Archives of Toxicology*, **2017**, 91, 1049-1130	5.8	280
132	CYP-specific bioactivation of four organophosphorothioate pesticides by human liver microsomes. *Toxicology and Applied Pharmacology*, **2003**, 186, 143-54	4.6	153
131	Application of integrated transcriptomic, proteomic and metabolomic profiling for the delineation of mechanisms of drug induced cell stress. *Journal of Proteomics*, **2013**, 79, 180-94	3.9	138
130	Metabolism: a bottleneck in in vitro toxicological test development. The report and recommendations of ECVAM workshop 54. *ATLA Alternatives To Laboratory Animals*, **2006**, 34, 49-84	2.1	124
129	Guidance on harmonised methodologies for human health, animal health and ecological risk assessment of combined exposure to multiple chemicals. *EFSA Journal*, **2019**, 17, e05634	2.3	100
128	Toxicokinetics as a key to the integrated toxicity risk assessment based primarily on non-animal approaches. *Toxicology in Vitro*, **2013**, 27, 1570-7	3.6	92
127	Polymorphic DNA repair and metabolic genes: a multigenic study on gastric cancer. *Mutagenesis*, **2010**, 25, 569-75	2.8	91
126	PBTK modelling platforms and parameter estimation tools to enable animal-free risk assessment: recommendations from a joint EPAA--EURL ECVAM ADME workshop. *Regulatory Toxicology and Pharmacology*, **2014**, 68, 119-39	3.4	85
125	Malathion bioactivation in the human liver: the contribution of different cytochrome p450 isoforms. *Drug Metabolism and Disposition*, **2005**, 33, 295-302	4	84
124	Toxicology investigations with cell culture systems: 20 years after. *Toxicology in Vitro*, **2004**, 18, 153-63	3.6	82
123	Contamination by Microcystis and microcystins of blue-green algae food supplements (BGAS) on the Italian market and possible risk for the exposed population. *Food and Chemical Toxicology*, **2012** , 50, 4493-9	4.7	68
122	Interleukin-1 gene polymorphisms and gastric cancer risk in a high-risk Italian population. *American Journal of Gastroenterology*, **2005**, 100, 1941-8	0.7	66
121	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. *ALTEX: Alternatives To Animal Experimentation*, **2012**, 29, 411-25	4.3	66
120	Caco-2/TC7 cell line characterization for intestinal absorption: how reliable is this in vitro model for the prediction of the oral dose fraction absorbed in human?. *Toxicology in Vitro*, **2011**, 25, 13-20	3.6	64
119	The safety of medical devices containing DEHP plasticized PVC or other plasticizers on neonates and other groups possibly at risk (2015 update). *Regulatory Toxicology and Pharmacology*, **2016**, 76, 209-10	3.4	62

118	Biomonitoring of perfluorinated compounds in adults exposed to contaminated drinking water in the Veneto Region, Italy. *Environment International*, **2018**, 110, 149-159	12.9	59
117	Early exposure to low doses of atrazine affects behavior in juvenile and adult CD1 mice. *Toxicology*, **2011**, 279, 19-26	4.4	56
116	Minimization of spreading of SARS-CoV-2 via household waste produced by subjects affected by COVID-19 or in quarantine. *Science of the Total Environment*, **2020**, 743, 140803	10.2	55
115	Biokinetics in repeated-dosing in vitro drug toxicity studies. *Toxicology in Vitro*, **2015**, 30, 217-24	3.6	53
114	Risk to human health associated with the environmental occurrence of cyanobacterial neurotoxic alkaloids anatoxins and saxitoxins. *Critical Reviews in Toxicology*, **2016**, 46, 385-419	5.7	51
113	GSTT1 and GSTM1 gene polymorphisms and gastric cancer in a high-risk italian population. *International Journal of Cancer*, **2005**, 115, 284-9	7.5	50
112	Kinetic parameters of OPT pesticide desulfuration by c-DNA expressed human CYPs. *Environmental Toxicology and Pharmacology*, **2002**, 11, 181-90	5.8	50
111	Short-term effects of adolescent methylphenidate exposure on brain striatal gene expression and sexual/endocrine parameters in male rats. *Annals of the New York Academy of Sciences*, **2006**, 1074, 52-73	6.5	49
110	Metabolism of chloroform in the human liver and identification of the competent P450s. *Drug Metabolism and Disposition*, **2003**, 31, 266-74	4	49
109	Metabolic and genetic factors contributing to alcohol induced effects and fetal alcohol syndrome. *Neuroscience and Biobehavioral Reviews*, **2007**, 31, 221-9	9	46
108	Review and analysis of occurrence, exposure and toxicity of cyanobacteria toxins in food. *EFSA Supporting Publications*, **2016**, 13,	1.1	46
107	Human glutathione transferases catalyzing the conjugation of the hepatoxin microcystin-LR. *Chemical Research in Toxicology*, **2011**, 24, 926-33	4	42
106	Effects of the pesticide clorpyrifos on an in vitro model of intestinal barrier. *Toxicology in Vitro*, **2007**, 21, 308-13	3.6	41
105	Lindane may modulate the female reproductive development through the interaction with ER-beta: an in vivo-in vitro approach. *Chemico-Biological Interactions*, **2007**, 169, 1-14	5	40
104	Evidences for CYP3A4 autoactivation in the desulfuration of dimethoate by the human liver. *Toxicology*, **2007**, 241, 33-46	4.4	40
103	Biochemical alterations elicited in rat liver microsomes by oxidation and reduction products of chloroform metabolism. *Chemico-Biological Interactions*, **1986**, 59, 157-71	5	39
102	Emerging health issues of cyanobacterial blooms. *Annali DellIstituto Superiore Di Sanita*, **2012**, 48, 415-28	8.6	39
101	The food contaminant semicarbazide acts as an endocrine disrupter: Evidence from an integrated in vivo/in vitro approach. *Chemico-Biological Interactions*, **2010**, 183, 40-8	5	37

100	Identification of the cytochrome P450 isoenzymes involved in the metabolism of diazinon in the rat liver. *Journal of Biochemical and Molecular Toxicology*, **1999**, 13, 53-61	3.4	36
99	Glutathione transferase polymorphisms and risk of endometriosis associated with polychlorinated biphenyls exposure in Italian women: a gene-environment interaction. *Fertility and Sterility*, **2012**, 97, 1143-51.e1-3	4.8	34
98	Malathion detoxification by human hepatic carboxylesterases and its inhibition by isomalathion and other pesticides. *Journal of Biochemical and Molecular Toxicology*, **2005**, 19, 406-14	3.4	33
97	Organophosphorothionate pesticides inhibit the bioactivation of imipramine by human hepatic cytochrome P450s. *Toxicology and Applied Pharmacology*, **2005**, 205, 237-46	4.6	33
96	The participation of human hepatic P450 isoforms, flavin-containing monooxygenases and aldehyde oxidase in the biotransformation of the insecticide fenthion. *Toxicology and Applied Pharmacology*, **2008**, 233, 343-52	4.6	32
95	Foetal and adult human CYP3A isoforms in the bioactivation of organophosphorothionate insecticides. *Toxicology Letters*, **2006**, 167, 245-55	4.4	32
94	Multiple activation of chloroform in hepatic microsomes from uninduced B6C3F1 mice. *Toxicology and Applied Pharmacology*, **1990**, 104, 496-503	4.6	31
93	The Human Metabolism of Organophosphorothionate Pesticides: Consequences for Toxicological Risk Assessment. *Journal Fur Verbraucherschutz Und Lebensmittelsicherheit*, **2007**, 2, 37-44	2.3	29
92	Health risk evaluation associated to Planktothrix rubescens: An integrated approach to design tailored monitoring programs for human exposure to cyanotoxins. *Water Research*, **2010**, 44, 1297-306	12.5	28
91	Mechanistic aspects of organophosphorothionate toxicity in fish and humans. *Environment International*, **2001**, 26, 125-9	12.9	28
90	Cyanobacteria blooms in water: Italian guidelines to assess and manage the risk associated to bathing and recreational activities. *Science of the Total Environment*, **2017**, 598, 867-880	10.2	27
89	In vitro kinetics of amiodarone and its major metabolite in two human liver cell models after acute and repeated treatments. *Toxicology in Vitro*, **2015**, 30, 36-51	3.6	27
88	Cholinesterase inhibition and alterations of hepatic metabolism by oral acute and repeated chlorpyrifos administration to mice. *Toxicology*, **2007**, 234, 90-102	4.4	27
87	Metals in cosmetics: an a posteriori safety evaluation. *Regulatory Toxicology and Pharmacology*, **2014**, 69, 416-24	3.4	25
86	Ostreospis cf. ovata blooms in coastal water: Italian guidelines to assess and manage the risk associated to bathing waters and recreational activities. *Harmful Algae*, **2015**, 50, 45-56	5.3	25
85	Understanding the biokinetics of ibuprofen after single and repeated treatments in rat and human in vitro liver cell systems. *Toxicology Letters*, **2015**, 233, 172-86	4.4	25
84	The conjugation of microcystin-RR by human recombinant GSTs and hepatic cytosol. *Toxicology Letters*, **2013**, 219, 231-8	4.4	24
83	Optimizing drug discovery by Investigative Toxicology: Current and future trends. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 289-313	4.3	24

82	Bioactivation of chloroform in hepatic microsomes from rodent strains susceptible or resistant to CHCl3 carcinogenicity. *Toxicology and Applied Pharmacology*, **1992**, 114, 197-203	4.6	23
81	Species- and congener-differences in microcystin-LR and -RR GSH conjugation in human, rat, and mouse hepatic cytosol. *Toxicology Letters*, **2015**, 232, 133-40	4.4	21
80	In vivo CHCl3 bioactivation, toxicokinetics, toxicity, and induced compensatory cell proliferation in B6C3F1 male mice. *Toxicology and Applied Pharmacology*, **1996**, 141, 394-402	4.6	21
79	A plea for risk assessment of endocrine disrupting chemicals. *Toxicology*, **2013**, 314, 51-9	4.4	20
78	The role of different cytochrome P450 isoforms in in vitro chloroform metabolism. *Journal of Biochemical Toxicology*, **1996**, 11, 305-12		20
77	Toxicity of palytoxin after repeated oral exposure in mice and in vitro effects on cardiomyocytes. *Toxicon*, **2013**, 75, 3-15	2.8	19
76	Foetal and neonatal exposure to chlorpyrifos: biochemical and metabolic alterations in the mouse liver at different developmental stages. *Toxicology*, **2011**, 280, 98-108	4.4	19
75	The regioselective binding of CHCl3 reactive intermediates to microsomal phospholipids. *Chemico-Biological Interactions*, **1992**, 85, 229-42	5	19
74	The safety of the use of bisphenol A in medical devices. *Regulatory Toxicology and Pharmacology*, **2016**, 79, 106-107	3.4	18
73	Amiodarone biokinetics, the formation of its major oxidative metabolite and neurotoxicity after acute and repeated exposure of brain cell cultures. *Toxicology in Vitro*, **2015**, 30, 192-202	3.6	16
72	Chlorpyrifos **2010**, 1505-1526		15
71	Multiple activation of chloroform in kidney microsomes from male and female DBA/2J mice. *Journal of Biochemical Toxicology*, **1994**, 9, 289-95		15
70	Cyanobacteria biennal dynamic in a volcanic mesotrophic lake in central Italy: Strategies to prevent dangerous human exposures to cyanotoxins. *Toxicon*, **2016**, 115, 28-40	2.8	15
69	Correlation of a specific mitochondrial phospholipid-phosgene adduct with chloroform acute toxicity. *Toxicology*, **2001**, 159, 43-53	4.4	14
68	Human variability in glutathione-S-transferase activities, tissue distribution and major polymorphic variants: Meta-analysis and implication for chemical risk assessment. *Toxicology Letters*, **2021**, 337, 78-90	4.4	14
67	Kinetics and dynamics of cyclosporine A in three hepatic cell culture systems. *Toxicology in Vitro*, **2015**, 30, 62-78	3.6	13
66	Cyclosporine A kinetics in brain cell cultures and its potential of crossing the blood-brain barrier. *Toxicology in Vitro*, **2015**, 30, 166-75	3.6	13
65	The contribution of electrophilic and radicalic intermediates to phospholipid adducts formed by halomethanes in vivo. *Journal of Biochemical Toxicology*, **1994**, 9, 305-10		13

64	An in vitro investigation of the reductive metabolism of chloroform. *Archives of Toxicology*, **1995**, 70, 83-8	5.8	13
63	The safety of dental amalgam and alternative dental restoration materials for patients and users. *Regulatory Toxicology and Pharmacology*, **2016**, 79, 108-109	3.4	12
62	Bayesian meta-analysis of inter-phenotypic differences in human serum paraoxonase-1 activity for chemical risk assessment. *Environment International*, **2020**, 138, 105609	12.9	11
61	Serum concentrations of perfluorinated alkyl substances in farmers living in areas affected by water contamination in the Veneto Region (Northern Italy). *Environment International*, **2020**, 136, 105435	12.9	11
60	The importance of protein binding for the in vitro-in vivo extrapolation (IVIVE)-example of ibuprofen, a highly protein-bound substance. *Archives of Toxicology*, **2017**, 91, 1663-1670	5.8	11
59	Effect of lindane on CYP-mediated steroid hormone metabolism in male mice following in utero exposure. *Journal of Applied Toxicology*, **2009**, 29, 648-55	4.1	11
58	Time dependence of chloroform-induced metabolic alterations in the liver and kidney of B6C3F1 mice. *Archives of Toxicology*, **1999**, 73, 387-93	5.8	10
57	Water quality and human health: A simple monitoring model of toxic cyanobacteria growth in highly variable Mediterranean hot dry environments. *Environmental Research*, **2021**, 192, 110291	7.9	10
56	Inter-ethnic differences in CYP3A4 metabolism: A Bayesian meta-analysis for the refinement of uncertainty factors in chemical risk assessment. *Computational Toxicology*, **2019**, 12, 100092	3.1	9
55	Survival, growth and toxicity of Microcystis aeruginosa PCC 7806 in experimental conditions mimicking some features of the human gastro-intestinal environment. *Chemico-Biological Interactions*, **2014**, 215, 54-61	5	9
54	The contribution of human small intestine to chlorpyrifos biotransformation. *Toxicology Letters*, **2012**, 215, 42-8	4.4	9
53	Establishing a systematic framework to characterise in vitro methods for human hepatic metabolic clearance. *Toxicology in Vitro*, **2018**, 53, 233-244	3.6	8
52	Chloroform bioactivation by microsomes from colonic and ileal mucosa of rat and man. *Toxicology Letters*, **1991**, 57, 19-27	4.4	8
51	Human variability in influx and efflux transporters in relation to uncertainty factors for chemical risk assessment. *Food and Chemical Toxicology*, **2020**, 140, 111305	4.7	8
50	Comprehensive summary--Predict-IV: A systems toxicology approach to improve pharmaceutical drug safety testing. *Toxicology in Vitro*, **2015**, 30, 4-6	3.6	7
49	Bioactivation, toxicokinetics and acute effects of chloroform in Fisher 344 and Osborne Mendel male rats. *Journal of Applied Toxicology*, **2004**, 24, 203-10	4.1	7
48	The drug-metabolizing enzymatic system and the experimental tools used for in vitro toxicology for metabolic studies. *Cell Biology and Toxicology*, **2001**, 17, 271-85	7.4	7
47	Suicidal inactivation of hepatic cytochrome P-450 in vitro by some aliphatic olefins. *Biochemical and Biophysical Research Communications*, **1982**, 107, 633-41	3.4	7

46	Phosmet bioactivation by isoform-specific cytochrome P450s in human hepatic and gut samples and metabolic interaction with chlorpyrifos. *Food and Chemical Toxicology*, **2020**, 143, 111514	4.7	7
45	Clarifying the absence of evidence regarding human health risks to microplastic particles in drinking-water: High quality robust data wanted. *Environment International*, **2021**, 150, 106141	12.9	7
44	Cell type-specific expression and localization of cytochrome P450 isoforms in tridimensional aggregating rat brain cell cultures. *Toxicology in Vitro*, **2015**, 30, 176-84	3.6	6
43	In vitro quantitative determination of phospholipid adducts of chloroform intermediates in hepatic and renal microsomes from different rodent strains. *Environmental Toxicology and Pharmacology*, **1996**, 2, 233-42	5.8	6
42	Integrating biokinetics and in vitro studies to evaluate developmental neurotoxicity induced by chlorpyrifos in human iPSC-derived neural stem cells undergoing differentiation towards neuronal and glial cells. *Reproductive Toxicology*, **2020**, 98, 174-188	3.4	6
41	Human variability in polymorphic CYP2D6 metabolism: Implications for the risk assessment of chemicals in food and emerging designer drugs. *Environment International*, **2021**, 156, 106760	12.9	6
40	Guidance Document on Scientific criteria for grouping chemicals into assessment groups for human risk assessment of combined exposure to multiple chemicals.. *EFSA Journal*, **2021**, 19, e07033	2.3	6
39	Opinion on environmental risks and indirect health effects of mercury from dental amalgam. *Regulatory Toxicology and Pharmacology*, **2015**, 72, 85-6	3.4	5
38	In vitro detoxication of microcystins in human samples: variability among variants with different hydrophilicity and structure. *Toxicology Letters*, **2020**, 322, 131-139	4.4	5
37	Comparative characterization of CHCl(3) metabolism and toxicokinetics in rodent strains differently susceptible to chloroform-induced carcinogenicity. *Environmental Toxicology and Pharmacology*, **2000**, 8, 103-110	5.8	5
36	In vitro effects of polyhalogenated hydrocarbons on liver mitochondria respiration and microsomal cytochrome P-450. *Drug and Chemical Toxicology*, **1988**, 11, 387-403	2.3	5
35	Final opinion on the safety of breast implants in relation to anaplastic large cell lymphoma: Report of the scientific committee on health, emerging and environmental risks (SCHEER). *Regulatory Toxicology and Pharmacology*, **2021**, 125, 104982	3.4	5
34	Cyanobacterial dynamics and toxins concentrations in Lake Alto Flumendosa, Sardinia, Italy. *Advances in Oceanography and Limnology*, **2017**, 8,	1.3	4
33	Recommendations to the European Commission implementing a priority list of additives that should have more stringent reporting requirements: the opinion of the Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR). *Tobacco Control*, **2018**, 27, 225-228	5.3	4
32	Xenobiotic-metabolizing enzyme systems in test fish--II. The ethylmorphine N-demethylase activity of guppy (Poecilia reticulata) liver. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1987**, 88, 619-24		3
31	Different pathways of chloroform metabolism. *Archives of Toxicology Supplement*, **1984**, 7, 278-81		3
30	Guidelines on the benefit-risk assessment of the presence of phthalates in certain medical devices covering phthalates which are carcinogenic, mutagenic, toxic to reproduction (CMR) or have endocrine-disrupting (ED) properties. *Regulatory Toxicology and Pharmacology*, **2020**, 111, 104546	3.4	3
29	Cyanobacteria, Cyanotoxins, and Human Health **2020**, 37-68		3

28	Modelling human variability in toxicokinetic and toxicodynamic processes using Bayesian meta-analysis, physiologically-based modelling and in vitro systems. *EFSA Supporting Publications*, **2021**, 18, 6504E	1.1	3
27	Impact of the environment on the health: From theory to practice. *Environmental Research*, **2021**, 194, 110517	7.9	3
26	Multiple bioactivation of chloroform: a comparison between man and experimental animals. *Advances in Experimental Medicine and Biology*, **1991**, 283, 665-7	3.6	3
25	Metabolism of triflumuron in the human liver: Contribution of cytochrome P450 isoforms and esterases. *Toxicology Letters*, **2019**, 312, 173-180	4.4	2
24	Novel chemical hazard characterisation approaches. *EFSA Journal*, **2016**, 14, e00506	2.3	2
23	Predict-IV project overview (EU grant 202222): non animal-based toxicity profiling by integrating toxico dynamics and biokinetics. *Toxicology Letters*, **2013**, 221, S7	4.4	2
22	EFSA'S risk assessment of bisphenol A in food. *Toxicology Letters*, **2011**, 205, S52	4.4	2
21	Risk Management ofOstreopsis spp. Blooms Along Italian Coasts. *Journal of Coastal Research*, **2011**, 61, 435-439	0.6	2
20	In vivo production of different chloroform metabolites: effect of phenobarbital and buthionine sulfoximine pretreatment. *Environmental Health Perspectives*, **1994**, 102 Suppl 9, 45-7	8.4	2
19	Loss of hepatic monooxygenase activities, glutathione, and 'green pigment'formation after the administration of vinyl-cyclooctane to mice. *Toxicology Letters*, **1983**, 16, 217-23	4.4	2
18	Oxidative and reductive biotransformation of chloroform in mouse liver microsomes. *Archives of Toxicology Supplement*, **1987**, 11, 42-4		2
17	Is Chronic Exposure to Raw Water a Possible Risk Factor for Amyotrophic Lateral Sclerosis? A Pilot Case-Control Study. *Brain Sciences*, **2021**, 11,	3.4	2
16	Prediction of the dose range for adverse neurological effects of amiodarone in patients from an in vitro toxicity test by in vitro-in vivo extrapolation. *Archives of Toxicology*, **2021**, 95, 1433-1442	5.8	2
15	The EU chemicals strategy for sustainability: in support of the BfR position. *Archives of Toxicology*, **2021**, 95, 3133-3136	5.8	2
14	Effect of ethanol on CHCl3 metabolism in hepatic microsomes from Osborne-Mendel rats. *Environmental Health Perspectives*, **1994**, 102 Suppl 9, 25-30	8.4	1
13	Metabolism of vinylcyclooctane and partition ratio between epoxide formation and cytochrome P-450 destruction. *Toxicology Letters*, **1984**, 20, 243-9	4.4	1
12	Microcystins: Toxicological Profile **2016**, 219-238		1
11	Remediation Strategies to Control Toxic Cyanobacterial Blooms: Effects of Macrophyte Aqueous Extracts on (Growth, Toxin Production and Oxidative Stress Response) and on Bacterial Ectoenzymatic Activities. *Microorganisms*, **2021**, 9,	4.9	1

10	Human Variability in Carboxylesterases and carboxylesterase-related Uncertainty Factors for Chemical Risk Assessment. *Toxicology Letters*, **2021**, 350, 162-170	4.4	1
9	Health and Climate Change: science calls for global action. *Annali DellIstituto Superiore Di Sanita*, **2019**, 55, 323-329	1.6	1
8	Chloroform **1993**, 119-125		0
7	Advice to the European Commission as Regards Type and Criteria for Comprehensive Studies to Be Requested From Manufacturers: The Opinion of the Scientific Committee on Health, Environmental, and Emerging Risks (SCHEER). *Nicotine and Tobacco Research*, **2020**, 22, 613-618	4.9	0
6	OpenCYP: An open source database exploring human variability in activities and frequencies of polymophisms for major cytochrome P-450 isoforms across world populations. *Toxicology Letters*, **2021**, 350, 267-282	4.4	0
5	Scientific Opinion of the Scientific Panel on Plant Protection Products and their Residues (PPR Panel) on testing and interpretation of comparative metabolism studies.. *EFSA Journal*, **2021**, 19, e06970	2.3	0
4	Erratum to "Comparative characterization of CHCl(3) metabolism and toxicokinetics in rodent strains differently susceptible to chloroform-induced carcinogenicity". *Environmental Toxicology and Pharmacology*, **2001**, 9, 193	5.8	
3	Microcystins: Toxicological Profile **2015**, 1-16		
2	Contributions to Alternatives From Italy and Spain **2019**, 29-34		
1	Developing TK databases and tools to support food safety assessment. *Toxicology Letters*, **2018**, 295, S5-S6	4.4	