Jean Lou C M Dorne

List of Publications by Year
in descending order

101	4,354	94381 37	118793 62
papers	citations	h-index	g-index

107	107	107	4392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidance on the use of the weight of evidence approach in scientific assessments. EFSA Journal, 2017, 15, e04971.	0.9	221
2	Guidance on harmonised methodologies for human health, animal health and ecological risk assessment of combined exposure to multiple chemicals. EFSA Journal, 2019, 17, e05634.	0.9	201
3	Systems toxicology approaches for understanding the joint effects of environmental chemical mixtures. Science of the Total Environment, 2010, 408, 3725-3734.	3.9	198
4	Current EU research activities on combined exposure to multiple chemicals. Environment International, 2018, 120, 544-562.	4.8	169
5	Utility of In Vitro Bioactivity as a Lower Bound Estimate of In Vivo Adverse Effect Levels and in Risk-Based Prioritization. Toxicological Sciences, 2020, 173, 202-225.	1.4	138
6	Risk assessment of coccidostatics during feed cross-contamination: Animal and human health aspects. Toxicology and Applied Pharmacology, 2013, 270, 196-208.	1.3	122
7	The Refinement of Uncertainty/Safety Factors in Risk Assessment by the Incorporation of Data on Toxicokinetic Variability in Humans. Toxicological Sciences, 2005, 86, 20-26.	1.4	114
8	Occurrence and Co-Occurrence of Mycotoxins in Cereal-Based Feed and Food. Microorganisms, 2020, 8, 74.	1.6	109
9	Comparative toxicity of pesticides and environmental contaminants in bees: Are honey bees a useful proxy for wild bee species?. Science of the Total Environment, 2017, 578, 357-365.	3.9	106
10	Human variability in xenobiotic metabolism and pathway-related uncertainty factors for chemical risk assessment: a review. Food and Chemical Toxicology, 2005, 43, 203-216.	1.8	105
11	Recent advances in the risk assessment of melamine and cyanuric acid in animal feed. Toxicology and Applied Pharmacology, 2013, 270, 218-229.	1.3	105
12	Nitrite in feed: From Animal health to human health. Toxicology and Applied Pharmacology, 2013, 270, 209-217.	1.3	100
13	Toxicokinetic models and related tools in environmental risk assessment of chemicals. Science of the Total Environment, 2017, 578, 1-15.	3.9	99
14	Guidance on the risk assessment of substances present in food intended for infants below 16Âweeks of age. EFSA Journal, 2017, 15, e04849.	0.9	98
15	Uncertainty factors for chemical risk assessment. Food and Chemical Toxicology, 2001, 39, 681-696.	1.8	88
16	Human variability in CYP3A4 metabolism and CYP3A4-related uncertainty factors for risk assessment. Food and Chemical Toxicology, 2003, 41, 201-224.	1.8	86
17	Risk assessment of pesticides and other stressors in bees: Principles, data gaps and perspectives from the European Food Safety Authority. Science of the Total Environment, 2017, 587-588, 524-537.	3.9	86
18	Metabolism, variability and risk assessment. Toxicology, 2010, 268, 156-164.	2.0	79

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19	Uncertainty factors for chemical risk assessment: interspecies differences in the in vivo pharmacokinetics and metabolism of human CYP1A2 substrates. Food and Chemical Toxicology, 2001, 39, 667-680.	1.8	71
20	Integrating in silico models and read-across methods for predicting toxicity of chemicals: A step-wise strategy. Environment International, 2019, 131, 105060.	4.8	68
21	Human variability in polymorphic CYP2D6 metabolism: is the kinetic default uncertainty factor adequate?. Food and Chemical Toxicology, 2002, 40, 1633-1656.	1.8	66
22	Generic physiologically-based toxicokinetic modelling for fish: Integration of environmental factors and species variability. Science of the Total Environment, 2019, 651, 516-531.	3.9	60
23	Human and animal health risk assessments of chemicals in the food chain: Comparative aspects and future perspectives. Toxicology and Applied Pharmacology, 2013, 270, 187-195.	1.3	57
24	Species-specific uncertainty factors for compounds eliminated principally by renal excretion in humans. Food and Chemical Toxicology, 2004, 42, 261-274.	1.8	54
25	Human and environmental risk assessment of pharmaceuticals: differences, similarities, lessons from toxicology. Analytical and Bioanalytical Chemistry, 2007, 387, 1259-1268.	1.9	54
26	Combining analytical techniques, exposure assessment and biological effects for risk assessment of chemicals in food. TrAC - Trends in Analytical Chemistry, 2009, 28, 695-707.	5.8	54
27	Investigating combined toxicity of binary mixtures in bees: Meta-analysis of laboratory tests, modelling, mechanistic basis and implications for risk assessment. Environment International, 2019, 133, 105256.	4.8	54
28	Comparing bee species responses to chemical mixtures: Common response patterns?. PLoS ONE, 2017, 12, e0176289.	1.1	54
29	QSAR models for predicting acute toxicity of pesticides in rainbow trout using the CORAL software and EFSAâ€™s OpenFoodTox database. Environmental Toxicology and Pharmacology, 2017, 53, 158-163.	2.0	52
30	Human variability in glucuronidation in relation to uncertainty factors for risk assessment. Food and Chemical Toxicology, 2001, 39, 1153-1173.	1.8	50
31	Dynamic energy budget models in ecological risk assessment: From principles to applications. Science of the Total Environment, 2018, 628-629, 249-260.	3.9	50
32	The effects on terrestrial invertebrates of reducing pesticide inputs in arable crop edges: a meta-analysis. Journal of Applied Ecology, 2007, 44, 362-373.	1.9	45
33	Polymorphic CYP2C19 and N-acetylation: human variability in kinetics and pathway-related uncertainty factors. Food and Chemical Toxicology, 2003, 41, 225-245.	1.8	41
34	Human variability in the renal elimination of foreign compounds and renal excretion-related uncertainty factors for risk assessment. Food and Chemical Toxicology, 2004, 42, 275-298.	1.8	40
35	Impact of inter-individual differences in drug metabolism and pharmacokinetics on safety evaluation. Fundamental and Clinical Pharmacology, 2004, 18, 609-620.	1.0	38
36	Predicting acute contact toxicity of organic binary mixtures in honey bees (A. mellifera) through innovative QSAR models. Science of the Total Environment, 2020, 704, 135302.	3.9	38

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37	Metabolism and pharmacokinetics of pharmaceuticals in cats (Felix sylvestris catus) and implications for the risk assessment of feed additives and contaminants. Toxicology Letters, 2021, 338, 114-127.	0.4	37
38	Human variability for metabolic pathways with limited data (CYP2A6, CYP2C9, CYP2E1, ADH, esterases,) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	36
39	Trends in human risk assessment of pharmaceuticals. Analytical and Bioanalytical Chemistry, 2007, 387, 1167-1172.	1.9	36
40	Editorial: OpenFoodTox: EFSA's open source toxicological database on chemical hazards in food and feed. EFSA Journal, 2017, 15, e15011.	0.9	36
41	EFSAâ€™s OpenFoodTox: An open source toxicological database on chemicals in food and feed and its future developments. Environment International, 2021, 146, 106293.	4.8	36
42	Vipers of Major clinical relevance in Europe: Taxonomy, venom composition, toxicology and clinical management of human bites. Toxicology, 2021, 453, 152724.	2.0	36
43	An open source physiologically based kinetic model for the chicken (Gallus gallus domesticus): Calibration and validation for the prediction residues in tissues and eggs. Environment International, 2020, 136, 105488.	4.8	35
44	The application of new HARD-descriptor available from the CORAL software to building up NOAEL models. Food and Chemical Toxicology, 2018, 112, 544-550.	1.8	33
45	Sourcing data on chemical properties and hazard data from the US-EPA CompTox Chemicals Dashboard: A practical guide for human risk assessment. Environment International, 2021, 154, 106566.	4.8	33
46	2. Human Risk Assessment of Heavy Metals: Principles and Applications. Metal Ions in Life Sciences, 2010, , 27-60.	1.0	31
47	Human variability in hepatic and renal elimination: implications for risk assessment. Journal of Applied Toxicology, 2007, 27, 411-420.	1.4	30
48	EFSA Scientific Colloquium 24 â€“ 'omics in risk assessment: state of the art and next steps. EFSA Supporting Publications, 2018, 15, 1512E.	0.3	29
49	Human variability in isoform-specific UDP-glucuronosyltransferases: markers of acute and chronic exposure, polymorphisms and uncertainty factors. Archives of Toxicology, 2020, 94, 2637-2661.	1.9	28
50	Generic physiologically based kinetic modelling for farm animals: Part I. Data collection of physiological parameters in swine, cattle and sheep. Toxicology Letters, 2020, 319, 95-101.	0.4	25
51	Acetylcholinesterase inhibition in electric eel and human donor blood: an in vitro approach to investigate interspecies differences and human variability in toxicodynamics. Archives of Toxicology, 2020, 94, 4055-4065.	1.9	22
52	Integrating QSAR models predicting acute contact toxicity and mode of action profiling in honey bees (A. mellifera): Data curation using open source databases, performance testing and validation. Science of the Total Environment, 2020, 735, 139243.	3.9	22
53	QSAR models for soil ecotoxicity: Development and validation of models to predict reproductive toxicity of organic chemicals in the collembola Folsomia candida. Journal of Hazardous Materials, 2022, 423, 127236.	6.5	22
54	What is considered cardiotoxicity of anthracyclines in animal studies Corrigendum in /10.3892/or.2020.7717. Oncology Reports, 2020, 44, 798-818.	1.2	22

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55	The using of the Index of Ideality of Correlation (IIC) to improve predictive potential of models of water solubility for pesticides. Environmental Science and Pollution Research, 2020, 27, 13339-13347.	2.7	21
56	A systemsâ€based approach to the environmental risk assessment of multiple stressors in honey bees. EFSA Journal, 2021, 19, e06607.	0.9	21
57	Principles and framework for assessing the risk of bias for studies included in comparative quantitative environmental systematic reviews. Environmental Evidence, 2022, 11, .	1.1	21
58	Default Factors for Interspecies Differences in the Major Routes of Xenobiotic Elimination. Human and Ecological Risk Assessment (HERA), 2001, 7, 181-201.	1.7	20
59	Demographic data in asthma clinical trials: A systematic review with implications for generalizing trial findings and tackling health disparities. Social Science and Medicine, 2009, 69, 1147-1154.	1.8	20
60	An in silico structural approach to characterize human and rainbow trout estrogenicity of mycotoxins: Proof of concept study using zearalenone and alternariol. Food Chemistry, 2020, 312, 126088.	4.2	20
61	Investigating the interaction between melamine and cyanuric acid using a Physiologically-Based Toxicokinetic model in rainbow trout. Toxicology and Applied Pharmacology, 2019, 370, 184-195.	1.3	19
62	Bayesian meta-analysis of inter-phenotypic differences in human serum paraoxonase-1 activity for chemical risk assessment. Environment International, 2020, 138, 105609.	4.8	19
63	Human risk assessment of heavy metals: principles and applications. Metal Ions in Life Sciences, 2011, 8, 27-60.	2.8	19
64	The index of ideality of correlation: models for flammability of binary liquid mixtures. Chemical Papers, 2020, 74, 601-609.	1.0	18
65	The Route of Mycotoxins in the Grape Food Chain. American Journal of Enology and Viticulture, 2020, 71, 89-104.	0.9	17
66	Generic physiologically based kinetic modelling for farm animals: Part II. Predicting tissue concentrations of chemicals in swine, cattle, and sheep. Toxicology Letters, 2020, 318, 50-56.	0.4	16
67	Human variability in influx and efflux transporters in relation to uncertainty factors for chemical risk assessment. Food and Chemical Toxicology, 2020, 140, 111305.	1.8	16
68	Human variability in polymorphic CYP2D6 metabolism: Implications for the risk assessment of chemicals in food and emerging designer drugs. Environment International, 2021, 156, 106760.	4.8	16
69	Establishing a systematic framework to characterise in vitro methods for human hepatic metabolic clearance. Toxicology in Vitro, 2018, 53, 233-244.	1.1	15
70	Editorial: Increasing robustness, transparency and openness of scientific assessments. EFSA Journal, 2015, 13, e13031.	0.9	14
71	Human Variability in Carboxylesterases and carboxylesterase-related Uncertainty Factors for Chemical Risk Assessment. Toxicology Letters, 2021, 350, 162-170.	0.4	14
72	Pathway-Related Factors: The Potential for Human Data to Improve the Scientific Basis of Risk Assessment. Human and Ecological Risk Assessment (HERA), 2001, 7, 165-180.	1.7	13

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73	The Yinâ€“Yang of CYP3A4: a Bayesian meta-analysis to quantify inhibition and induction of CYP3A4 metabolism in humans and refine uncertainty factors for mixture risk assessment. Archives of Toxicology, 2019, 93, 107-119.	1.9	13
74	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.	1.8	13
75	Integrated In Silico Models for the Prediction of No-Observed-(Adverse)-Effect Levels and Lowest-Observed-(Adverse)-Effect Levels in Rats for Sub-chronic Repeated-Dose Toxicity. Chemical Research in Toxicology, 2021, 34, 247-257.	1.7	13
76	Mycotoxins in maize: mitigation actions, with a chain management approach. Phytopathologia Mediterranea, 2020, 59, 5-28.	0.6	13
77	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.	1.8	12
78	In vitro detoxication of microcystins in human samples: variability among variants with different hydrophilicity and structure. Toxicology Letters, 2020, 322, 131-139.	0.4	12
79	SAR for gastro-intestinal absorption and blood-brain barrier permeation of pesticides. Chemico-Biological Interactions, 2018, 290, 1-5.	1.7	10
80	Derivation of a Human In Vivo Benchmark Dose for Perfluorooctanoic Acid From ToxCast In Vitro Concentrationâ€“Response Data Using a Computational Workflow for Probabilistic Quantitative In Vitro to In Vivo Extrapolation. Frontiers in Pharmacology, 2021, 12, 630457.	1.6	10
81	Risk Assessment of Chemicals in Food and Feed: Principles, Applications and Future Perspectives. Issues in Environmental Science and Technology, 2020, , 1-38.	0.4	10
82	In Silico Methods for Environmental Risk Assessment: Principles, Tiered Approaches, Applications, and Future Perspectives. Methods in Molecular Biology, 2022, 2425, 589-636.	0.4	10
83	A regression-based QSAR-model to predict acute toxicity of aromatic chemicals in tadpoles of the Japanese brown frog (Rana japonica): Calibration, validation, and future developments to support risk assessment of chemicals in amphibians. Science of the Total Environment, 2022, 830, 154795.	3.9	10
84	EFSA's approach to identifying emerging risks in food and feed: taking stock and looking forward. EFSA Journal, 2012, 10, s1015.	0.9	9
85	A generic Bayesian hierarchical model for the meta-analysis of human population variability in kinetics and its applications in chemical risk assessment. Computational Toxicology, 2019, 12, 100106.	1.8	9
86	2 Human Risk Assessment of Heavy Metals: Principles and Applications. , 2015, , 27-60.		7
87	Metabolism of triflumuron in the human liver: Contribution of cytochrome P450 isoforms and esterases. Toxicology Letters, 2019, 312, 173-180.	0.4	7
88	Investigating the interaction between organic anion transporter 1 and ochratoxin A: An in silico structural study to depict early molecular events of substrate recruitment and the impact of single point mutations. Toxicology Letters, 2022, 355, 19-30.	0.4	7
89	Population Effects and Variability. Methods in Molecular Biology, 2012, 929, 521-581.	0.4	6
90	Environmental Contaminants: Nitrate and Nitrite. , 2014, , 332-336.		6

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91	The index of ideality of correlation and the variety of molecular rings as a base to improve model of HIV-1 protease inhibitors activity. Structural Chemistry, 2020, 31, 1441-1448.	1.0	6
92	Risk assessment of uptake of trace elements through consumption of cereals: a pilot study in Yerevan, Armenia. Journal of Environmental Health Science & Engineering, 2022, 20, 459-468.	1.4	6
93	Scientific Opinion of the Scientific Panel on Plant Protection Products and their Residues (PPR Panel) on testing and interpretation of comparative in vitro metabolism studies. EFSA Journal, 2021, 19, e06970.	0.9	6
94	Inter-phenotypic differences in CYP2C9 and CYP2C19 metabolism: Bayesian meta-regression of human population variability in kinetics and application in chemical risk assessment. Toxicology Letters, 2021, 337, 111-120.	0.4	5
95	A Computational Understanding of Inter-Individual Variability in CYP2D6 Activity to Investigate the Impact of Missense Mutations on Ochratoxin A Metabolism. Toxins, 2022, 14, 207.	1.5	5
96	Cardiotoxicity of Chemical Substances: An Emerging Hazard Class. Journal of Cardiovascular Development and Disease, 2022, 9, 226.	0.8	5
97	Preventing the Interaction between Coronaviruses Spike Protein and Angiotensin I Converting Enzyme 2: An In Silico Mechanistic Case Study on Emodin as a Potential Model Compound. Applied Sciences (Switzerland), 2020, 10, 6358.	1.3	4
98	The Astronomical Pulse of Global Extinction Events. Scientific World Journal, The, 2006, 6, 718-726.	0.8	3
99	Weighing evidence and assessing uncertainties. EFSA Journal, 2016, 14, e00511.	0.9	2
100	EFSA Scientific Colloquium 22 â€“ Epigenetics and Risk Assessment: Where do we stand?. EFSA Supporting Publications, 2016, 13, 1129E.	0.3	1
101	Editorial: EFSA calls for integrated and coordinated actions at EU and international levels to address global declines of pollinators. EFSA Journal, 2013, 11, e11071.	0.9	0