

Sebastian Hoffmann

List of Publications by Year in descending order

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95
papers

4,384
citations

87888

38
h-index

110387

64
g-index

100
all docs

100
docs citations

100
times ranked

3616
citing authors

#	ARTICLE	IF	CITATIONS
1	A Modular Approach to the ECVAM Principles on Test Validity. ATLA Alternatives To Laboratory Animals, 2004, 32, 467-472.	1.0	275
2	“ToxRTool”, a new tool to assess the reliability of toxicological data. Toxicology Letters, 2009, 189, 138-144.	0.8	271
3	A roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 3-91.	1.5	190
4	The ECVAM International Validation Study on in Vitro Tests for Acute Skin Irritation: Report on the Validity of the EPISKIN and EpiDerm Assays and on the Skin Integrity Function Test. ATLA Alternatives To Laboratory Animals, 2007, 35, 559-601.	1.0	185
5	Categorization of Chemicals According to Their Relative Human Skin Sensitizing Potency. Dermatitis, 2014, 25, 11-21.	1.6	177
6	A proposed eye irritation testing strategy to reduce and replace in vivo studies using Bottom-“Up and Top-“Down approaches. Toxicology in Vitro, 2010, 24, 1-9.	2.4	175
7	Non-animal methods to predict skin sensitization (II): an assessment of defined approaches. Critical Reviews in Toxicology, 2018, 48, 359-374.	3.9	157
8	International validation of novel pyrogen tests based on human monocytoïd cells. Journal of Immunological Methods, 2005, 298, 161-173.	1.4	150
9	ECVAM retrospective validation of in vitro micronucleus test (MNT). Mutagenesis, 2008, 23, 271-283.	2.6	124
10	Non-animal methods to predict skin sensitization (I): the Cosmetics Europe database. Critical Reviews in Toxicology, 2018, 48, 344-358.	3.9	122
11	Systematic evaluation of non-animal test methods for skin sensitisation safety assessment. Toxicology in Vitro, 2015, 29, 259-270.	2.4	112
12	Toward an evidence-based toxicology. Human and Experimental Toxicology, 2006, 25, 497-513.	2.2	107
13	Retrospective analysis of the Draize test for serious eye damage/eye irritation: importance of understanding the in vivo endpoints under UN GHS/EU CLP for the development and evaluation of in vitro test methods. Archives of Toxicology, 2014, 88, 701-723.	4.2	89
14	Food for thought – on in silico methods in toxicology. ALTEX: Alternatives To Animal Experimentation, 2009, 26, 155-166.	1.5	81
15	Heterozygous Toll-“Like Receptor 4 Polymorphism Does Not Influence Lipopolysaccharide-“Induced Cytokine Release in Human Whole Blood. Journal of Infectious Diseases, 2003, 188, 938-943.	4.0	77
16	A primer on systematic reviews in toxicology. Archives of Toxicology, 2017, 91, 2551-2575.	4.2	68
17	Implementing systematic review techniques in chemical risk assessment: Challenges, opportunities and recommendations. Environment International, 2016, 92-93, 556-564.	10.0	67
18	Food for Thought – Mechanistic Validation. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 119-130.	1.5	66

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19	Diagnosis: Toxic! â€“ Trying to Apply Approaches of Clinical Diagnostics and Prevalence in Toxicology Considerations. <i>Toxicological Sciences</i> , 2005, 85, 422-428.	3.1	65
20	International validation of pyrogen tests based on cryopreserved human primary blood cells. <i>Journal of Immunological Methods</i> , 2006, 316, 42-51.	1.4	64
21	Guidance on assessing the methodological and reporting quality of toxicologically relevant studies: A scoping review. <i>Environment International</i> , 2016, 92-93, 630-646.	10.0	58
22	Development of a next generation risk assessment framework for the evaluation of skin sensitisation of cosmetic ingredients. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 116, 104721.	2.7	58
23	Evaluation and Prevalidation of an Immunotoxicity Test Based on Human Whole-blood Cytokine Release. <i>ATLA Alternatives To Laboratory Animals</i> , 2002, 30, 581-595.	1.0	57
24	Recommendations for the conduct of systematic reviews in toxicology and environmental health research (COSTER). <i>Environment International</i> , 2020, 143, 105926.	10.0	57
25	ECVAM prevalidation study on in vitro cell transformation assays: General outline and conclusions of the study. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 744, 12-19.	1.7	54
26	Integrated Testing Strategy (ITS) â€“ Opportunities to better use existing data and guide future testing in toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2010, 27, 231-242.	1.5	54
27	Acute oral toxicity: Variability, reliability, relevance and interspecies comparison of rodent LD50 data from literature surveyed for the ACuteTox project. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 58, 395-407.	2.7	53
28	LLNA variability: An essential ingredient for a comprehensive assessment of non-animal skin sensitization test methods and strategies. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015, 32, 379-83.	1.5	52
29	Evidence for the detection of non-endotoxin pyrogens by the whole blood monocyte activation test. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 169-208.	1.5	49
30	The Development of New Concepts for Assessing Reproductive Toxicity Applicable to Large Scale Toxicological Programmes. <i>Current Pharmaceutical Design</i> , 2007, 13, 3047-3058.	1.9	48
31	Toward good in vitro reporting standards. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 3-17.	1.5	46
32	Estimation of acute oral toxicity using the No Observed Adverse Effect Level (NOAEL) from the 28 day repeated dose toxicity studies in rats. <i>Regulatory Toxicology and Pharmacology</i> , 2009, 53, 16-19.	2.7	43
33	Evidence-based toxicology for the 21st century: Opportunities and challenges. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 74-104.	1.5	42
34	Application of in vitro cell transformation assays in regulatory toxicology for pharmaceuticals, chemicals, food products and cosmetics. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 744, 111-116.	1.7	41
35	The ECVAM International Validation Study on In Vitro Tests for Acute Skin Irritation: Selection of Test Chemicals. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 603-619.	1.0	40
36	Validation of the 3D Skin Comet assay using full thickness skin models: Transferability and reproducibility. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2018, 827, 27-41.	1.7	39

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37	A feasibility study developing an integrated testing strategy assessing skin irritation potential of chemicals. <i>Toxicology Letters</i> , 2008, 180, 9-20.	0.8	38
38	Points of Reference in the Validation Process. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 343-352.	1.0	38
39	Use of the Cultex [®] Radial Flow System as an in vitro exposure method to assess acute pulmonary toxicity of fine dusts and nanoparticles with special focus on the intra- and inter-laboratory reproducibility. <i>Chemico-Biological Interactions</i> , 2013, 206, 479-490.	4.0	38
40	Development of an in vitro test battery for assessing chemical effects on bovine germ cells under the ReProTect umbrella. <i>Toxicology and Applied Pharmacology</i> , 2008, 233, 360-370.	2.8	36
41	Intra- and inter-laboratory reproducibility and accuracy of the LuSens assay: A reporter gene-cell line to detect keratinocyte activation by skin sensitizers. <i>Toxicology in Vitro</i> , 2016, 32, 278-286.	2.4	35
42	The GOLIATH Project: Towards an Internationally Harmonised Approach for Testing Metabolism Disrupting Compounds. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3480.	4.1	35
43	Comparing <i>In Vivo</i> , <i>In Vitro</i> and <i>In Silico</i> Methods and Integrated Strategies for Chemical Assessment: Problems and Prospects. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 153-166.	1.0	32
44	Catch-up validation study of an in vitro skin irritation test method based on an open source reconstructed epidermis (phase II). <i>Toxicology in Vitro</i> , 2016, 36, 254-261.	2.4	32
45	Skin irritation: prevalence, variability, and regulatory classification of existing in vivo data from industrial chemicals. <i>Regulatory Toxicology and Pharmacology</i> , 2005, 41, 159-166.	2.7	30
46	Probabilistic risk assessment – the keystone for the future of toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2022, 39, 3-29.	1.5	28
47	Prospective multicentre study of the U-SENS test method for skin sensitization testing. <i>Toxicology in Vitro</i> , 2015, 30, 373-382.	2.4	26
48	Regulatory assessment of in vitro skin corrosion and irritation data within the European framework: Workshop recommendations. <i>Regulatory Toxicology and Pharmacology</i> , 2012, 62, 393-403.	2.7	24
49	Round robin study to evaluate the reconstructed human epidermis (RhE) model as an in vitro skin irritation test for detection of irritant activity in medical device extracts. <i>Toxicology in Vitro</i> , 2018, 50, 439-449.	2.4	24
50	An Exploratory Study of Two Caco-2 Cell Models for Oral Absorption: A Report on Their Within-laboratory and Between-laboratory Variability, and Their Predictive Capacity. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 367-386.	1.0	23
51	Food safety: screening tests used to detect and quantify GMO proteins. <i>Accreditation and Quality Assurance</i> , 2006, 11, 55-57.	0.8	21
52	State-of-the-art and new options to assess T cell activation by skin sensitizers: Cosmetics Europe Workshop. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 179-192.	1.5	21
53	Validation of the 3D reconstructed human skin micronucleus (RSMN) assay: an animal-free alternative for following-up positive results from standard <i>in vitro</i> genotoxicity assays. <i>Mutagenesis</i> , 2021, 36, 1-17.	2.6	19
54	Optimisation of pyrogen testing in parenterals according to different pharmacopoeias by probabilistic modelling. <i>Journal of Endotoxin Research</i> , 2005, 11, 25-31.	2.5	17

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55	Designing Validation Studies More Efficiently According to the Modular Approach: Retrospective Analysis of the EPISKIN Test for Skin Corrosion. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 177-191.	1.0	17
56	Inter-laboratory evaluation of the response of primary human hepatocyte cultures to model CYP inducers – A European Centre for Validation of Alternative Methods (ECVAM) – Funded pre-validation study. <i>Toxicology in Vitro</i> , 2010, 24, 335-345.	2.4	16
57	ECVAM prevalidation of three cell transformation assays. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2011, 28, 56-59.	1.5	16
58	Validation study on the Ocular Irritaction® assay for eye irritation testing. <i>Toxicology in Vitro</i> , 2014, 28, 1046-1065.	2.4	15
59	Two new approaches to improve the analysis of BALB/c 3T3 cell transformation assay data. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 744, 36-41.	1.7	14
60	Exposure of 19 substances to lung A549 cells at the air liquid interface or under submerged conditions reveals high correlation between cytotoxicity in vitro and CLP classifications for acute lung toxicity. <i>Toxicology Letters</i> , 2019, 316, 119-126.	0.8	13
61	Validation of the CULTEX® Radial Flow System for the assessment of the acute inhalation toxicity of airborne particles. <i>Toxicology in Vitro</i> , 2019, 58, 245-255.	2.4	12
62	In vitro methodology for medical device material thrombogenicity assessments: A use condition and bioanalytical proof-of-concept approach. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 358-376.	3.4	11
63	Adaptation of the Systematic Review Framework to the Assessment of Toxicological Test Methods: Challenges and Lessons Learned With the Zebrafish Embryotoxicity Test. <i>Toxicological Sciences</i> , 2019, 171, 56-68.	3.1	9
64	Effects of BPA in Snails. <i>Environmental Health Perspectives</i> , 2006, 114, A340-A341.	6.0	9
65	Effects of BPA in Snails. <i>Environmental Health Perspectives</i> , 2006, 114, A340-1; author reply A341-2.	6.0	8
66	An Optimised Data Analysis for the Balb/c3T3 Cell Transformation Assay and its Application to Metal Compounds. <i>International Journal of Immunopathology and Pharmacology</i> , 2007, 20, 673-684.	2.1	8
67	Expansion of the Cosmetics Europe skin sensitisation database with new substances and PPRA data. <i>Regulatory Toxicology and Pharmacology</i> , 2022, 131, 105169.	2.7	8
68	Preface. <i>Human and Experimental Toxicology</i> , 2009, 28, 83-86.	2.2	7
69	A Systematic Review to Compare Chemical Hazard Predictions of the Zebrafish Embryotoxicity Test With Mammalian Prenatal Developmental Toxicity. <i>Toxicological Sciences</i> , 2021, 183, 14-35.	3.1	7
70	Applying evidence-based methods to the development and use of adverse outcome pathways. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 336-347.	1.5	7
71	The HaCaT/THP-1 Cocultured Activation Test (COCAT) for skin sensitization: a study of intra-lab reproducibility and predictivity. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 613-622.	1.5	7
72	Biological plausibility in environmental health systematic reviews: a GRADE concept paper. <i>Environment International</i> , 2022, 162, 107109.	10.0	7

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73	Establishing a health-based recommended occupational exposure limit for nitrous oxide using experimental animal data – A systematic review protocol. <i>Environmental Research</i> , 2019, 178, 108711.	7.5	6
74	Biological plausibility in environmental health systematic reviews: aGRADE concept paper. <i>Journal of Clinical Epidemiology</i> , 2022, 146, 32-46.	5.0	5
75	Simple clotting test to detect procoagulant abdominal swabs. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 106.	3.6	3
76	A health-based recommended occupational exposure limit for nitrous oxide using experimental animal data based on a systematic review and dose-response analysis. <i>Environmental Research</i> , 2021, 201, 111575.	7.5	3
77	Comments on the use of Bootstrap Resampling to Assess the Uncertainty of Cooper Statistics. <i>ATLA Alternatives To Laboratory Animals</i> , 2002, 30, 551-554.	1.0	2
78	5 Steps toward an evidence-based toxicology. <i>Human and Experimental Toxicology</i> , 2009, 28, 151-151.	2.2	2
79	Evidence-Based Toxicology. <i>Advances in Experimental Medicine and Biology</i> , 2016, 856, 231-241.	1.6	2
80	Assessment of the Acute Inhalation Toxicity of Airborne Particles by Exposing Cultivated Human Lung Cells at the Air-Liquid Interface. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	2
81	ISO 10993-23 In vitro irritation testing for medical devices: Substantiating applicability to mild irritants and non-extractables. <i>Toxicology in Vitro</i> , 2022, 82, 105371.	2.4	2
82	5.4 Possible improvement of information sources on hazard and risk. <i>Human and Experimental Toxicology</i> , 2009, 28, 157-157.	2.2	1
83	1.2 Aspects of test assessment. <i>Human and Experimental Toxicology</i> , 2009, 28, 95-96.	2.2	1
84	5.6 An online portal to evidence-based toxicology. <i>Human and Experimental Toxicology</i> , 2009, 28, 161-161.	2.2	1
85	Instruments for Assessing Risk of Bias and Other Methodological Criteria of Animal Studies: Omission of Well-Established Methods. <i>Environmental Health Perspectives</i> , 2014, 122, A66-7.	6.0	1
86	Toward an evidence-based dermatotoxicology. , 2012, , 21-27.		1
87	Minimum reporting standards based on a comprehensive review of the zebrafish embryo teratogenicity assay. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 127, 105054.	2.7	1
88	5.2 Evidence-based tools in toxicological hazard identification. <i>Human and Experimental Toxicology</i> , 2009, 28, 153-153.	2.2	0
89	5.3 Evidence-based tools in toxicological decision-making. <i>Human and Experimental Toxicology</i> , 2009, 28, 155-155.	2.2	0
90	4.8 Current schemes for decision-making in toxicology. <i>Human and Experimental Toxicology</i> , 2009, 28, 147-147.	2.2	0

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91	4.9 Current information sources for hazard identification. Human and Experimental Toxicology, 2009, 28, 149-149.	2.2	0
92	Training courses in systematic reviews or in specific steps of systematic review for EFSA Risk Assessment. EFSA Supporting Publications, 2018, 15, 1483E.	0.7	0
93	Quality Criteria for Primary Literature in Toxicology. , 2021, , 439-444.		0
94	Training in Collecting, Appraising and Synthesising Evidence for EFSA scientific assessments. EFSA Supporting Publications, 2021, 18, 6601E.	0.7	0
95	Quality Criteria for Primary Literature in Toxicology. , 2021, , 1-6.		0