

# Robert Landsiedel

## List of Publications by Citations

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201  
papers

8,591  
citations

51  
h-index

86  
g-index

261  
ext. papers

9,499  
ext. citations

4.6  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
201	Inhalation toxicity of multiwall carbon nanotubes in rats exposed for 3 months. <i>Toxicological Sciences</i> , <b>2009</b> , 112, 468-81	4.4	352
200	Tissue distribution and toxicity of intravenously administered titanium dioxide nanoparticles in rats. <i>Archives of Toxicology</i> , <b>2008</b> , 82, 151-7	5.8	307
199	Testing metal-oxide nanomaterials for human safety. <i>Advanced Materials</i> , <b>2010</b> , 22, 2601-27	24	301
198	Genotoxicity investigations on nanomaterials: methods, preparation and characterization of test material, potential artifacts and limitations—many questions, some answers. <i>Mutation Research - Reviews in Mutation Research</i> , <b>2009</b> , 681, 241-258	7	281
197	Safety evaluation of sunscreen formulations containing titanium dioxide and zinc oxide nanoparticles in UVB sunburned skin: an in vitro and in vivo study. <i>Toxicological Sciences</i> , <b>2011</b> , 123, 264-80	4.4	274
196	Assessing skin sensitization hazard in mice and men using non-animal test methods. <i>Regulatory Toxicology and Pharmacology</i> , <b>2015</b> , 71, 337-51	3.4	215
195	Acute and chronic effects of nano- and non-nano-scale TiO <sub>2</sub> and ZnO particles on mobility and reproduction of the freshwater invertebrate <i>Daphnia magna</i> . <i>Chemosphere</i> , <b>2009</b> , 76, 1356-65	8.4	193
194	A decision-making framework for the grouping and testing of nanomaterials (DF4nanoGrouping). <i>Regulatory Toxicology and Pharmacology</i> , <b>2015</b> , 71, S1-27	3.4	183
193	On the lifecycle of nanocomposites: comparing released fragments and their in-vivo hazards from three release mechanisms and four nanocomposites. <i>Small</i> , <b>2011</b> , 7, 2384-95	11	165
192	Putting the parts together: combining in vitro methods to test for skin sensitizing potentials. <i>Regulatory Toxicology and Pharmacology</i> , <b>2012</b> , 63, 489-504	3.4	162
191	Development of a short-term inhalation test in the rat using nano-titanium dioxide as a model substance. <i>Inhalation Toxicology</i> , <b>2009</b> , 21, 102-18	2.7	155
190	A roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2012</b> , 29, 3-91	4.3	153
189	Toxico-/biokinetics of nanomaterials. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 1021-60	5.8	145
188	Drug-metabolizing enzymes in the skin of man, rat, and pig. <i>Drug Metabolism Reviews</i> , <b>2007</b> , 39, 659-98	7	144
187	Not ready to use [overcoming pitfalls when dispersing nanoparticles in physiological media. <i>Nanotoxicology</i> , <b>2008</b> , 2, 51-61	5.3	142
186	Comparative inhalation toxicity of multi-wall carbon nanotubes, graphene, graphite nanoplatelets and low surface carbon black. <i>Particle and Fibre Toxicology</i> , <b>2013</b> , 10, 23	8.4	127
185	Effects of SiO <sub>2</sub> , ZrO <sub>2</sub> and BaSO <sub>4</sub> nanomaterials with or without surface functionalization upon 28-day oral exposure to rats. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 1881-906	5.8	124

184	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2014</b> , 31, 441-77	4.3	122
183	Nanomaterial categorization for assessing risk potential to facilitate regulatory decision-making. <i>ACS Nano</i> , <b>2015</b> , 9, 3409-17	16.7	119
182	Elastic CNT-polyurethane nanocomposite: synthesis, performance and assessment of fragments released during use. <i>Nanoscale</i> , <b>2013</b> , 5, 369-80	7.7	118
181	Application of short-term inhalation studies to assess the inhalation toxicity of nanomaterials. <i>Particle and Fibre Toxicology</i> , <b>2014</b> , 11, 16	8.4	115
180	Comparing fate and effects of three particles of different surface properties: nano-TiO(2), pigmentary TiO(2) and quartz. <i>Toxicology Letters</i> , <b>2009</b> , 186, 152-9	4.4	114
179	Concern-driven integrated approaches to nanomaterial testing and assessment--report of the NanoSafety Cluster Working Group 10. <i>Nanotoxicology</i> , <b>2014</b> , 8, 334-48	5.3	111
178	Gene toxicity studies on titanium dioxide and zinc oxide nanomaterials used for UV-protection in cosmetic formulations. <i>Nanotoxicology</i> , <b>2010</b> , 4, 364-81	5.3	106
177	Grouping and Read-Across Approaches for Risk Assessment of Nanomaterials. <i>International Journal of Environmental Research and Public Health</i> , <b>2015</b> , 12, 13415-34	4.6	104
176	A critical appraisal of existing concepts for the grouping of nanomaterials. <i>Regulatory Toxicology and Pharmacology</i> , <b>2014</b> , 70, 492-506	3.4	102
175	A multi-stakeholder perspective on the use of alternative test strategies for nanomaterial safety assessment. <i>ACS Nano</i> , <b>2013</b> , 7, 6422-33	16.7	96
174	Xenobiotic metabolism capacities of human skin in comparison with a 3D epidermis model and keratinocyte-based cell culture as in vitro alternatives for chemical testing: activating enzymes (Phase I). <i>Experimental Dermatology</i> , <b>2012</b> , 21, 358-63	4	91
173	An in vitro alveolar macrophage assay for predicting the short-term inhalation toxicity of nanomaterials. <i>Journal of Nanobiotechnology</i> , <b>2016</b> , 14, 16	9.4	89
172	Predictive toxicology of cobalt ferrite nanoparticles: comparative in-vitro study of different cellular models using methods of knowledge discovery from data. <i>Particle and Fibre Toxicology</i> , <b>2013</b> , 10, 32	8.4	89
171	Pulmonary toxicity of nanomaterials: a critical comparison of published in vitro assays and in vivo inhalation or instillation studies. <i>Nanomedicine</i> , <b>2014</b> , 9, 2557-85	5.6	87
170	Case studies putting the decision-making framework for the grouping and testing of nanomaterials (DF4nanoGrouping) into practice. <i>Regulatory Toxicology and Pharmacology</i> , <b>2016</b> , 76, 234-61	3.4	86
169	The intra- and inter-laboratory reproducibility and predictivity of the KeratinoSens assay to predict skin sensitizers in vitro: results of a ring-study in five laboratories. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 733-44	3.6	85
168	Time course of lung retention and toxicity of inhaled particles: short-term exposure to nano-Ceria. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 2033-59	5.8	81
167	LuSens: a keratinocyte based ARE reporter gene assay for use in integrated testing strategies for skin sensitization hazard identification. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 1482-97	3.6	76

166	Investigation on the genotoxicity of different sizes of gold nanoparticles administered to the lungs of rats. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2012</b> , 745, 51-7	3	67
165	Non-animal test methods for predicting skin sensitization potentials. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 1273-95	5.8	67
164	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2014</b> , 31, 441-477	4.3	67
163	Xenobiotic-metabolizing enzymes in the skin of rat, mouse, pig, guinea pig, man, and in human skin models. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 2135-90	5.8	66
162	Sulfotransferase-mediated activation of mutagens studied using heterologous expression systems. <i>Chemico-Biological Interactions</i> , <b>1998</b> , 109, 195-219	5	65
161	Generation and characterization of test atmospheres with nanomaterials. <i>Inhalation Toxicology</i> , <b>2007</b> , 19, 833-48	2.7	63
160	Suitability of skin integrity tests for dermal absorption studies in vitro. <i>Toxicology in Vitro</i> , <b>2015</b> , 29, 113-23	3.8	62
159	A multi-laboratory evaluation of microelectrode array-based measurements of neural network activity for acute neurotoxicity testing. <i>NeuroToxicology</i> , <b>2017</b> , 60, 280-292	4.4	61
158	Decision tree models to classify nanomaterials according to the DF4nanoGrouping scheme. <i>Nanotoxicology</i> , <b>2018</b> , 12, 1-17	5.3	61
157	Hazard identification of inhaled nanomaterials: making use of short-term inhalation studies. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 1137-51	5.8	61
156	Assessment of toxicological risks for life cycle assessment and eco-efficiency analysis. <i>International Journal of Life Cycle Assessment</i> , <b>2002</b> , 7, 261-268	4.6	57
155	In vitro and in vivo genotoxicity investigations of differently sized amorphous SiO <sub>2</sub> nanomaterials. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2015</b> , 794, 57-74	3	56
154	Intralaboratory validation of four in vitro assays for the prediction of the skin sensitizing potential of chemicals. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 1162-8	3.6	54
153	Biokinetics and effects of barium sulfate nanoparticles. <i>Particle and Fibre Toxicology</i> , <b>2014</b> , 11, 55	8.4	53
152	In vivo-in vitro comparison of acute respiratory tract toxicity using human 3D airway epithelial models and human A549 and murine 3T3 monolayer cell systems. <i>Toxicology in Vitro</i> , <b>2013</b> , 27, 174-90	3.6	51
151	Esterase activity in excised and reconstructed human skin--biotransformation of prednicarbate and the model dye fluorescein diacetate. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 84, 374-85	5.7	49
150	Applicability of rat precision-cut lung slices in evaluating nanomaterial cytotoxicity, apoptosis, oxidative stress, and inflammation. <i>Toxicology and Applied Pharmacology</i> , <b>2014</b> , 276, 1-20	4.6	48
149	The 3Rs as a framework to support a 21st century approach for nanosafety assessment. <i>Nano Today</i> , <b>2017</b> , 12, 10-13	17.9	48

148	Genotoxicity investigations on nanomaterials. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 985-94	5.8	48
147	Feasibility Assessment of Micro-Electrode Chip Assay as a Method of Detecting Neurotoxicity in vitro. <i>Frontiers in Neuroengineering</i> , <b>2011</b> , 4, 6		48
146	Benzylic hydroxylation of 1-methylpyrene and 1-ethylpyrene by human and rat cytochromes P450 individually expressed in V79 Chinese hamster cells. <i>Carcinogenesis</i> , <b>1999</b> , 20, 1777-85	4.6	48
145	In house validation of recombinant yeast estrogen and androgen receptor agonist and antagonist screening assays. <i>Toxicology in Vitro</i> , <b>2010</b> , 24, 2030-40	3.6	45
144	Computer models versus reality: how well do in silico models currently predict the sensitization potential of a substance. <i>Regulatory Toxicology and Pharmacology</i> , <b>2013</b> , 67, 468-85	3.4	43
143	Short term inhalation toxicity of a liquid aerosol of CdS/Cd(OH) <sub>2</sub> core shell quantum dots in male Wistar rats. <i>Toxicology Letters</i> , <b>2012</b> , 208, 115-24	4.4	42
142	Characterization of enzyme activities of Cytochrome P450 enzymes, Flavin-dependent monooxygenases, N-acetyltransferases and UDP-glucuronyltransferases in human reconstructed epidermis and full-thickness skin models. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 1209-14	3.6	41
141	Surface modifications of silica nanoparticles are crucial for their inert versus proinflammatory and immunomodulatory properties. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 2815-32	7.3	38
140	The MARINA Risk Assessment Strategy: A Flexible Strategy for Efficient Information Collection and Risk Assessment of Nanomaterials. <i>International Journal of Environmental Research and Public Health</i> , <b>2015</b> , 12, 15007-21	4.6	37
139	Genotoxicity of nanomaterials: refining strategies and tests for hazard identification. <i>Environmental and Molecular Mutagenesis</i> , <b>2013</b> , 54, 229-39	3.2	37
138	In-house validation of the EpiOcular(TM) eye irritation test and its combination with the bovine corneal opacity and permeability test for the assessment of ocular irritation. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2011</b> , 39, 365-87	2.1	36
137	Assessment of Pre- and Pro-haptens Using Nonanimal Test Methods for Skin Sensitization. <i>Chemical Research in Toxicology</i> , <b>2016</b> , 29, 901-13	4	35
136	Toxicity testing of nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 745, 58-75	3.6	35
135	Transfer of a two-tiered keratinocyte assay: IL-18 production by NCTC2544 to determine the skin sensitizing capacity and epidermal equivalent assay to determine sensitizer potency. <i>Toxicology in Vitro</i> , <b>2013</b> , 27, 1135-50	3.6	34
134	Abiotic dissolution rates of 24 (nano)forms of 6 substances compared to macrophage-assisted dissolution and in vivo pulmonary clearance: Grouping by biodissolution and transformation. <i>NanoImpact</i> , <b>2018</b> , 12, 29-41	5.6	34
133	Linking energy metabolism to dysfunctions in mitochondrial respiration--a metabolomics in vitro approach. <i>Toxicology Letters</i> , <b>2011</b> , 203, 200-9	4.4	33
132	Refinement and reduction of acute oral toxicity testing: a critical review of the use of cytotoxicity data. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2011</b> , 39, 273-95	2.1	32
131	Influence of dispersive agent on nanomaterial agglomeration and implications for biological effects in vivo or in vitro. <i>Toxicology in Vitro</i> , <b>2015</b> , 29, 182-6	3.6	31

130	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> , <b>2016</b> , 32, 278-86	3.6	30
129	Skin sensitisation--moving forward with non-animal testing strategies for regulatory purposes in the EU. <i>Regulatory Toxicology and Pharmacology</i> , <b>2013</b> , 67, 531-5	3.4	30
128	The nanoGRAVUR framework to group (nano)materials for their occupational, consumer, environmental risks based on a harmonized set of material properties, applied to 34 case studies. <i>Nanoscale</i> , <b>2019</b> , 11, 17637-17654	7.7	30
127	Environmental Risk Assessment Strategy for Nanomaterials. <i>International Journal of Environmental Research and Public Health</i> , <b>2017</b> , 14,	4.6	29
126	In vitro-to-in vivo extrapolation (IVIVE) by PBTK modeling for animal-free risk assessment approaches of potential endocrine-disrupting compounds. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 401-416	5.8	28
125	Safety assessment of nanomaterials using an advanced decision-making framework, the DF4nanoGrouping. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 171	2.3	27
124	Aligning nanotoxicology with the 3Rs: What is needed to realise the short, medium and long-term opportunities?. <i>Regulatory Toxicology and Pharmacology</i> , <b>2017</b> , 91, 257-266	3.4	27
123	Prediction of skin sensitization potency sub-categories using peptide reactivity data. <i>Toxicology in Vitro</i> , <b>2017</b> , 45, 134-145	3.6	26
122	A novel 3D intestine barrier model to study the immune response upon exposure to microplastics. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 2463-2479	5.8	26
121	No genotoxicity in rat blood cells upon 3- or 6-month inhalation exposure to CeO <sub>2</sub> or BaSO <sub>4</sub> nanomaterials. <i>Mutagenesis</i> , <b>2017</b> , 32, 13-22	2.8	25
120	P2X7R activation drives distinct IL-1 responses in dendritic cells compared to macrophages. <i>Cytokine</i> , <b>2015</b> , 74, 293-304	4	25
119	Prevalidation of the ex-vivo model PCLS for prediction of respiratory toxicity. <i>Toxicology in Vitro</i> , <b>2016</b> , 32, 347-61	3.6	25
118	Xenobiotica-metabolizing enzymes in the skin of rat, mouse, pig, guinea pig, man, and in human skin models. <i>Archives of Toxicology</i> , <b>2018</b> , 92, 2411-2456	5.8	25
117	Differential in vitro effects of physiological and atmospheric oxygen tension on normal human peripheral blood mononuclear cell proliferation, cytokine and immunoglobulin production. <i>International Journal of Immunopharmacology</i> , <b>1996</b> , 18, 545-52		25
116	Peptide reactivity associated with skin sensitization: The QSAR Toolbox and TIMES compared to the DPRA. <i>Toxicology in Vitro</i> , <b>2016</b> , 34, 194-203	3.6	25
115	Assessment of the oxidative potential of nanoparticles by the cytochrome c assay: assay improvement and development of a high-throughput method to predict the toxicity of nanoparticles. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 163-177	5.8	24
114	Xenobiotica-metabolizing enzymes in the lung of experimental animals, man and in human lung models. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 3419-3489	5.8	24
113	Experience with local lymph node assay performance standards using standard radioactivity and nonradioactive cell count measurements. <i>Journal of Applied Toxicology</i> , <b>2012</b> , 32, 590-6	4.1	24

112	The bovine corneal opacity and permeability test in routine ocular irritation testing and its improvement within the limits of OECD test guideline 437. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2011</b> , 39, 37-53	2.1	24
111	Expression of human estrogen sulfotransferase in <i>Salmonella typhimurium</i> : differences between hHST and hEST in the enantioselective activation of 1-hydroxyethylpyrene to a mutagen. <i>Chemico-Biological Interactions</i> , <b>1998</b> , 109, 249-53	5	24
110	ArF-excimer laser ablation experiments on Cycloolefin Copolymer (COC). <i>Applied Surface Science</i> , <b>1999</b> , 150, 185-189	6.7	24
109	Local tolerance testing under REACH: Accepted non-animal methods are not on equal footing with animal tests. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2016</b> , 44, 281-99	2.1	23
108	Nanostructured calcium silicate hydrate seeds accelerate concrete hardening: a combined assessment of benefits and risks. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 1077-87	5.8	23
107	Additional histopathologic examination of the lungs from a 3-month inhalation toxicity study with multiwall carbon nanotubes in rats. <i>Toxicological Sciences</i> , <b>2013</b> , 134, 103-10	4.4	23
106	Deposition behavior of inhaled nanostructured TiO <sub>2</sub> in rats: fractions of particle diameter below 100 nm (nanoscale) and the slicing bias of transmission electron microscopy. <i>Inhalation Toxicology</i> , <b>2012</b> , 24, 939-51	2.7	23
105	Performance standards and alternative assays: practical insights from skin sensitization. <i>Regulatory Toxicology and Pharmacology</i> , <b>2013</b> , 65, 278-85	3.4	22
104	Inhalation studies for the safety assessment of nanomaterials: status quo and the way forward. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2012</b> , 4, 399-413	9.2	21
103	Synthesis of Polysulfides Containing the Triazeno Group and Their Application as Photoresists in Excimer Laser Polymer Ablation. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 485-494	9.6	21
102	Workshop on the validation and regulatory acceptance of innovative 3R approaches in regulatory toxicology - Evolution versus revolution. <i>Toxicology in Vitro</i> , <b>2019</b> , 59, 1-11	3.6	20
101	The EpiOcular Eye Irritation Test is the Method of Choice for the In Vitro Eye Irritation Testing of Agrochemical Formulations: Correlation Analysis of EpiOcular Eye Irritation Test and BCOP Test Data According to the UN GHS, US EPA and Brazil ANVISA Classification Schemes. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2015</b> , 43, 181-99	2.1	20
100	Prenatal toxicity of synthetic amorphous silica nanomaterial in rats. <i>Reproductive Toxicology</i> , <b>2015</b> , 56, 141-6	3.4	19
99	In Vitro and In Vivo Short-Term Pulmonary Toxicity of Differently Sized Colloidal Amorphous SiO <sub>2</sub> Nanomaterials, <b>2018</b> , 8,	5.4	19
98	Genotoxicity testing of different surface-functionalized SiO <sub>2</sub> , ZrO <sub>2</sub> and silver nanomaterials in 3D human bronchial models. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 3991-4007	5.8	19
97	Oral two-generation reproduction toxicity study with NM-200 synthetic amorphous silica in Wistar rats. <i>Reproductive Toxicology</i> , <b>2015</b> , 56, 147-54	3.4	18
96	Relevance of xenobiotic enzymes in human skin in vitro models to activate pro-sensitizers. <i>Journal of Immunotoxicology</i> , <b>2012</b> , 9, 426-38	3.1	18
95	The borderline range of toxicological methods: Quantification and implications for evaluating precision. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2017</b> , 34, 525-538	4.3	18

94	Eye irritation testing of nanomaterials using the EpiOcularEye irritation test and the bovine corneal opacity and permeability assay. <i>Particle and Fibre Toxicology</i> , <b>2016</b> , 13, 18	8.4	17
93	Xenobiotic metabolizing enzyme activities in cells used for testing skin sensitization in vitro. <i>Archives of Toxicology</i> , <b>2013</b> , 87, 1683-96	5.8	17
92	Experience with the HET-CAM method in the routine testing of a broad variety of chemicals and formulations. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2010</b> , 38, 39-52	2.1	17
91	Effects of styrene and its metabolites on different lung compartments of the mouse--cell proliferation and histomorphology. <i>Regulatory Toxicology and Pharmacology</i> , <b>2005</b> , 42, 24-36	3.4	17
90	International ring trial of the epidermal equivalent sensitizer potency assay: reproducibility and predictive-capacity. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2014</b> , 31, 251-68	4.3	17
89	Differences in the toxicity of cerium dioxide nanomaterials after inhalation can be explained by lung deposition, animal species and nanoforms. <i>Inhalation Toxicology</i> , <b>2018</b> , 30, 273-286	2.7	17
88	Replacing the refinement for skin sensitization testing: Considerations to the implementation of adverse outcome pathway (AOP)-based defined approaches (DA) in OECD guidelines. <i>Regulatory Toxicology and Pharmacology</i> , <b>2020</b> , 115, 104713	3.4	16
87	Artifacts by marker enzyme adsorption on nanomaterials in cytotoxicity assays with tissue cultures. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 304, 012061	0.3	16
86	Dermal uptake and excretion of 14C-toluene diisocyanate (TDI) and 14C-methylene diphenyl diisocyanate (MDI) in male rats. Clinical signs and histopathology following dermal exposure of male rats to TDI. <i>Toxicology Letters</i> , <b>2010</b> , 199, 364-71	4.4	16
85	Chiral inversion of 1-hydroxyethylpyrene enantiomers mediated by enantioselective sulfotransferases. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 247, 181-5	3.4	16
84	Understanding Dissolution Rates via Continuous Flow Systems with Physiologically Relevant Metal Ion Saturation in Lysosome. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	15
83	In silico models to predict dermal absorption from complex agrochemical formulations. <i>SAR and QSAR in Environmental Research</i> , <b>2014</b> , 25, 565-88	3.5	15
82	Comparative short-term inhalation toxicity of five organic diketopyrrolopyrrole pigments and two inorganic iron-oxide-based pigments. <i>Inhalation Toxicology</i> , <b>2016</b> , 28, 463-79	2.7	15
81	Predicting dissolution and transformation of inhaled nanoparticles in the lung using abiotic flow cells: The case of barium sulfate. <i>Scientific Reports</i> , <b>2020</b> , 10, 458	4.9	14
80	A protocol to determine dermal absorption of xenobiotica through human skin in vitro. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 1497-1511	5.8	14
79	Stable expression of human cytochrome P450 2E1 in V79 Chinese hamster cells. <i>European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section</i> , <b>1995</b> , 293, 123-31		14
78	Benzylic Sulfuric Acid Esters React with Diverse Functional Groups and Often form Secondary Reactive Species. <i>Polycyclic Aromatic Compounds</i> , <b>1996</b> , 11, 341-348	1.3	14
77	Workshop report. Nanotoxicology: "the end of the beginning" - signs on the roadmap to a strategy for assuring the safe application and use of nanomaterials. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2011</b> , 28, 236-41	4.3	14



76	Ecotoxicological assessment of nanoparticle-containing acrylic copolymer dispersions in fairy shrimp and zebrafish embryos. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1981-1997	7.1	13
75	Short-term rat inhalation study with aerosols of acrylic ester-based polymer dispersions containing a fraction of nanoparticles. <i>International Journal of Toxicology</i> , <b>2012</b> , 31, 46-57	2.4	13
74	Lacking applicability of in vitro eye irritation methods to identify seriously eye irritating agrochemical formulations: Results of bovine cornea opacity and permeability assay, isolated chicken eye test and the EpiOcular ET-50 method to classify according to UN GHS. <i>Regulatory Toxicology and Pharmacology</i> , <b>2017</b> , 85, 33-47	3.4	12
73	Organ burden of inhaled nanoceria in a 2-year low-dose exposure study: dump or depot?. <i>Nanotoxicology</i> , <b>2020</b> , 14, 554-576	5.3	12
72	Short term inhalation toxicity of a liquid aerosol of glutaraldehyde-coated CdS/Cd(OH) <sub>2</sub> core shell quantum dots in rats. <i>Toxicology Letters</i> , <b>2014</b> , 225, 20-6	4.4	12
71	Assessment of combinations of antiandrogenic compounds vinclozolin and flutamide in a yeast based reporter assay. <i>Regulatory Toxicology and Pharmacology</i> , <b>2011</b> , 60, 373-80	3.4	12
70	Concern-driven integrated approaches for the grouping, testing and assessment of nanomaterials. <i>Environmental Pollution</i> , <b>2016</b> , 218, 1376-1380	9.3	11
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