Hans Bouwmeester

List of Publications by Year in descending order

74 papers	8,458 citations	76196 40 h-index	85405 71 g-index
77 all docs	77 docs citations	77 times ranked	10051 citing authors

#	Article	IF	Citations
1	Responses of increasingly complex intestinal epithelium in vitro models to bacterial toll-like receptor agonists. Toxicology in Vitro, 2022, 79, 105280.	1.1	8
2	Release and intestinal translocation of chemicals associated with microplastics in an in vitro human gastrointestinal digestion model. Microplastics and Nanoplastics, 2022, 2, .	4.1	8
3	Implementing organ-on-chip in a next-generation risk assessment of chemicals: a review. Archives of Toxicology, 2022, 96, 711-741.	1.9	21
4	Nanotechnology and food safety. , 2022, , 325-340.		3
5	In vitroâ€“in silico-based prediction of inter-individual and inter-ethnic variations in the dose-dependent cardiotoxicity of R- and S-methadone in humans. Archives of Toxicology, 2022, 96, 2361-2380.	1.9	4
6	Research recommendations to better understand the potential health impacts of microplastics to humans and aquatic ecosystems. Microplastics and Nanoplastics, 2022, 2, .	4.1	31
7	A new approach methodology (NAM) for the prediction of (nor)ibogaine-induced cardiotoxicity in humans. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 636-652.	0.9	7
8	Transcriptome comparisons of in vitro intestinal epithelia grown under static and microfluidic gut-on-chip conditions with in vivo human epithelia. Scientific Reports, 2021, 11, 3234.	1.6	22
9	A versatile, compartmentalised gut-on-a-chip system for pharmacological and toxicological analyses. Scientific Reports, 2021, 11, 4920.	1.6	21
10	Comparative study of the transcriptomes of Caco-2 cells cultured under dynamic vs. static conditions following exposure to titanium dioxide and zinc oxide nanomaterials. Nanotoxicology, 2021, 15, 1233-1252.	1.6	5
11	Impact of in vitro digestion on gastrointestinal fate and uptake of silver nanoparticles with different surface modifications. Nanotoxicology, 2020, 14, 111-126.	1.6	40
12	Risk Management Framework for Nano-Biomaterials Used in Medical Devices and Advanced Therapy Medicinal Products. Materials, 2020, 13, 4532.	1.3	26
13	Integrating in vitro data and physiologically based kinetic modeling-facilitated reverse dosimetry to predict human cardiotoxicity of methadone. Archives of Toxicology, 2020, 94, 2809-2827.	1.9	17
14	Microfluidic chip for culturing intestinal epithelial cell layers: Characterization and comparison of drug transport between dynamic and static models. Toxicology in Vitro, 2020, 65, 104815.	1.1	45
15	Combination of the BeWo b30 placental transport model and the embryonic stem cell test to assess the potential developmental toxicity of silver nanoparticles. Particle and Fibre Toxicology, 2020, 17, 11.	2.8	20
16	The gut barrier and the fate of engineered nanomaterials: a view from comparative physiology. Environmental Science: Nano, 2020, 7, 1874-1898.	2.2	32
17	Dynamic in vitro intestinal barrier model coupled to chip-based liquid chromatography mass spectrometry for oral bioavailability studies. Analytical and Bioanalytical Chemistry, 2020, 412, 1111-1122.	1.9	44
18	Evaluation of in vitro models of stem cell-derived cardiomyocytes to screen for potential cardiotoxicity of chemicals. Toxicology in Vitro, 2020, 67, 104891.	1.1	14

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19	New approach methodologies (NAMs) for human-relevant biokinetics predictions. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 607-622.	0.9	31
20	Online and in situ analysis of organs-on-a-chip. TrAC - Trends in Analytical Chemistry, 2019, 115, 138-146.	5.8	27
21	Digestion-on-a-chip: a continuous-flow modular microsystem recreating enzymatic digestion in the gastrointestinal tract. Lab on A Chip, 2019, 19, 1599-1609.	3.1	42
22	Decision tree models to classify nanomaterials according to the DF4nanoGrouping scheme. Nanotoxicology, 2018, 12, 1-17.	1.6	71
23	Expert opinions on the acceptance of alternative methods in food safety evaluations: Formulating recommendations to increase acceptance of non-animal methods for kinetics. Regulatory Toxicology and Pharmacology, 2018, 92, 145-151.	1.3	14
24	Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. NanoImpact, 2018, 10, 97-107.	2.4	59
25	Risk analysis and technology assessment in support of technology development: Putting responsible innovation in practice in a case study for nanotechnology. Integrated Environmental Assessment and Management, 2018, 14, 9-16.	1.6	17
26	Detection of nanoparticles in Dutch surface waters. Science of the Total Environment, 2018, 621, 210-218.	3.9	157
27	The Essential Elements of a Risk Governance Framework for Current and Future Nanotechnologies. Risk Analysis, 2018, 38, 1321-1331.	1.5	27
28	Implementation of a dynamic intestinal gut-on-a-chip barrier model for transport studies of lipophilic dioxin congeners. RSC Advances, 2018, 8, 32440-32453.	1.7	36
29	Impact of nanoparticle surface functionalization on the protein corona and cellular adhesion, uptake and transport. Journal of Nanobiotechnology, 2018, 16, 70.	4.2	70
30	Effects of foodâ€borne nanomaterials on gastrointestinal tissues and microbiota. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1481.	3.3	76
31	Application of Bayesian networks for hazard ranking of nanomaterials to support human health risk assessment. Nanotoxicology, 2017, 11, 123-133.	1.6	60
32	Surface PEG Grafting Density Determines Magnetic Relaxation Properties of Gd-Loaded Porous Nanoparticles for MR Imaging Applications. ACS Applied Materials & Interfaces, 2017, 9, 23458-23465.	4.0	14
33	Sulforaphane formation and bioaccessibility are more affected by steaming time than meal composition during in vitro digestion of broccoli. Food Chemistry, 2017, 214, 580-586.	4.2	47
34	Non-animal approaches for toxicokinetics in risk evaluations of food chemicals. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 501-514.	0.9	33
35	Suitability of analytical methods to measure solubility for the purpose of nanoregulation. Nanotoxicology, 2016, 10, 1-12.	1.6	25
36	Different responses of Caco-2 and MCF-7 cells to silver nanoparticles are based on highly similar mechanisms of action. Nanotoxicology, 2016, 10, 1431-1441.	1.6	49

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37	A Tractable Method for Measuring Nanomaterial Risk Using Bayesian Networks. Nanoscale Research Letters, 2016, 11, 503.	3.1	28
38	Nanomaterials for products and application in agriculture, feed and food. Trends in Food Science and Technology, 2016, 54, 155-164.	7.8	294
39	Translocation of positively and negatively charged polystyrene nanoparticles in an in vitro placental model. Toxicology in Vitro, 2015, 29, 1701-1710.	1.1	44
40	Novel insights into the risk assessment of the nanomaterial synthetic amorphous silica, additive E551, in food. Nanotoxicology, 2015, 9, 442-452.	1.6	77
41	A study of the uptake and biodistribution of nano-titanium dioxide using in vitro and in vivo models of oral intake. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	66
42	Potential Health Impact of Environmentally Released Micro- and Nanoplastics in the Human Food Production Chain: Experiences from Nanotoxicology. Environmental Science & Technology, 2015, 49, 8932-8947.	4.6	810
43	In vitrogastrointestinal digestion increases the translocation of polystyrene nanoparticles in anin vitrointestinal co-culture model. Nanotoxicology, 2015, 9, 886-894.	1.6	79
44	Single particle ICP-MS combined with a data evaluation tool as a routine technique for the analysis of nanoparticles in complex matrices. Journal of Analytical Atomic Spectrometry, 2015, 30, 1274-1285.	1.6	193
45	Progress and future of in vitro models to study translocation of nanoparticles. Archives of Toxicology, 2015, 89, 1469-1495.	1.9	117
46	Bioavailability and biodistribution of differently charged polystyrene nanoparticles upon oral exposure in rats. Journal of Nanoparticle Research, 2015, 17, 231.	0.8	116
47	Regulatory aspects of nanotechnology in the agri/feed/food sector in EU and non-EU countries. Regulatory Toxicology and Pharmacology, 2015, 73, 463-476.	1.3	291
48	Utility of models of the gastrointestinal tract for assessment of the digestion and absorption of engineered nanomaterials released from food matrices. Nanotoxicology, 2015, 9, 523-542.	1.6	102
49	Translocation of differently sized and charged polystyrene nanoparticles in in vitro intestinal cell models of increasing complexity. Nanotoxicology, 2015, 9, 453-461.	1.6	133
50	Sub-chronic toxicity study in rats orally exposed to nanostructured silica. Particle and Fibre Toxicology, 2014, 11, 8.	2.8	164
51	Bioaccessibility of vitamin A, vitamin C and folic acid from dietary supplements, fortified food and infant formula. International Journal of Food Sciences and Nutrition, 2014, 65, 426-435.	1.3	23
52	Development and validation of single particle ICP-MS for sizing and quantitative determination of nano-silver in chicken meat. Analytical and Bioanalytical Chemistry, 2014, 406, 3875-85.	1.9	126
53	State of the safety assessment and current use of nanomaterials in food and food production. Trends in Food Science and Technology, 2014, 40, 200-210.	7.8	105
54	Characterization of Titanium Dioxide Nanoparticles in Food Products: Analytical Methods To Define Nanoparticles. Journal of Agricultural and Food Chemistry, 2014, 62, 6285-6293.	2.4	328

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55	Inventory of Nanotechnology applications in the agricultural, feed and food sector. EFSA Supporting Publications, 2014, 11, 621E.	0.3	57
56	Behaviour of silver nanoparticles and silver ions in an in vitro human gastrointestinal digestion model. Nanotoxicology, 2013, 7, 1198-1210.	1.6	200
57	Exploring the development of a decision support system (DSS) to prioritize engineered nanoparticles for risk assessment. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	8
58	Knowledge gaps in risk assessment of nanosilica in food: evaluation of the dissolution and toxicity of different forms of silica. Nanotoxicology, 2013, 7, 367-377.	1.6	62
59	Distribution, Elimination, and Toxicity of Silver Nanoparticles and Silver Ions in Rats after 28-Day Oral Exposure. ACS Nano, 2012, 6, 7427-7442.	7.3	624
60	Presence of Nano-Sized Silica during In Vitro Digestion of Foods Containing Silica as a Food Additive. ACS Nano, 2012, 6, 2441-2451.	7.3	286
61	Characterization of Translocation of Silver Nanoparticles and Effects on Whole-Genome Gene Expression Using an In Vitro Intestinal Epithelium Coculture Model. ACS Nano, 2011, 5, 4091-4103.	7.3	206
62	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. Nanotoxicology, 2011, 5, 1-11.	1.6	141
63	Identification and characterization of organic nanoparticles in food. TrAC - Trends in Analytical Chemistry, 2011, 30, 100-112.	5.8	84
64	Presence and risks of nanosilica in food products. Nanotoxicology, 2011, 5, 393-405.	1.6	459
65	Nanotechnology and Food Safety. , 2010, , 263-280.		8
66	Review of health safety aspects of nanotechnologies in food production. Regulatory Toxicology and Pharmacology, 2009, 53, 52-62.	1.3	647
67	A Review of Analytical Methods for the Identification and Characterization of Nano Delivery Systems in Food. Journal of Agricultural and Food Chemistry, 2008, 56, 8231-8247.	2.4	213
68	Neonatal basolateral amygdala lesions affect monoamine and cannabinoid brain systems in adult rats. International Journal of Neuropsychopharmacology, 2007, 10, 727-39.	1.0	11
69	Early developmental failure of substantia nigra dopamine neurons in mice lacking the homeodomain gene Pitx3. Development (Cambridge), 2004, 131, 1145-1155.	1.2	306
70	Effects of neonatal amygdala lesions on [125I] neurotensin binding in specific brain areas of adult rat. European Journal of Neuroscience, 2003, 17, 1319-1322.	1.2	3
71	Neonatal development of projections from the basolateral amygdala to prefrontal, striatal, and thalamic structures in the rat. Journal of Comparative Neurology, 2002, 442, 239-249.	0.9	97
72	Neonatal development of projections to the basolateral amygdala from prefrontal and thalamic structures in rat. Journal of Comparative Neurology, 2002, 450, 241-255.	0.9	105

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73	Hippocampectomy disrupts auditory trace fear conditioning and contextual fear conditioning in the rat. , 1999, 8, 638-646.		349
74	Hippocampal lesions prevent trace eyeblink conditioning in the freely moving rat. Behavioural Brain Research, 1999, 99, 123-132.	1.2	269