Arno C Gutleb

List of Publications by Year
in descending order

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128 papers	5,164 citations	101384 36 h-index	98622 67 g-index
131 all docs	131 docs citations	131 times ranked	8438 citing authors

#	Article	IF	Citations
1	Reproductive and Developmental Toxicity of Phthalates. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2009, 12, 225-249.	2.9	455
2	Cytotoxicity assays for mycotoxins produced by Fusarium strains: a review. Environmental Toxicology and Pharmacology, 2002, 11, 309-320.	2.0	195
3	First Steps toward Harmonized Human Biomonitoring in Europe: Demonstration Project to Perform Human Biomonitoring on a European Scale. Environmental Health Perspectives, 2015, 123, 255-263.	2.8	168
4	Mechanism-based testing strategy using in vitro approaches for identification of thyroid hormone disrupting chemicals. Toxicology in Vitro, 2013, 27, 1320-1346.	1.1	165
5	Interlaboratory comparison of size measurements on nanoparticles using nanoparticle tracking analysis (NTA). Journal of Nanoparticle Research, 2013, 15, 2101.	0.8	163
6	An improved 3D tetraculture system mimicking the cellular organisation at the alveolar barrier to study the potential toxic effects of particles on the lung. Particle and Fibre Toxicology, 2013, 10, 31.	2.8	147
7	Urinary BPA measurements in children and mothers from six European member states: Overall results and determinants of exposure. Environmental Research, 2015, 141, 77-85.	3.7	143
8	Airâ€“Liquid InterfaceIn VitroModels for Respiratory Toxicology Research: Consensus Workshop and Recommendations. Applied in Vitro Toxicology, 2018, 4, 91-106.	0.6	138
9	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. ACS Nano, 2017, 11, 5519-5529.	7.3	131
10	Nanoparticles in the environment: assessment using the causal diagram approach. Environmental Health, 2012, 11, S13.	1.7	126
11	Nanoparticles in food. Epigenetic changes induced by nanomaterials and possible impact on health. Food and Chemical Toxicology, 2015, 77, 64-73.	1.8	116
12	Fish consumption patterns and hair mercury levels in children and their mothers in 17 EU countries. Environmental Research, 2015, 141, 58-68.	3.7	107
13	Dose-dependent autophagic effect of titanium dioxide nanoparticles in human HaCaT cells at non-cytotoxic levels. Journal of Nanobiotechnology, 2016, 14, 22.	4.2	101
14	Effects of silver nanoparticles and ions on a co-culture model for the gastrointestinal epithelium. Particle and Fibre Toxicology, 2015, 13, 9.	2.8	99
15	Effects of the Endocrine Disruptors Atrazine and PCB 153 on the Protein Expression of MCF-7 Human Cells. Journal of Proteome Research, 2009, 8, 5485-5496.	1.8	94
16	Safety assessment of titanium dioxide (E171) as a food additive. EFSA Journal, 2021, 19, e06585.	0.9	93
17	Persistent Toxic Burdens of Halogenated Phenolic Compounds in Humans and Wildlife. Environmental Science & Technology, 2013, 47, 6071-6081.	4.6	84
18	Toxicity of Silver Nanomaterials in Higher Eukaryotes. Advances in Molecular Toxicology, 2011, 5, 179-218.	0.4	82

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19	T-screen to quantify functional potentiating, antagonistic and thyroid hormone-like activities of poly halogenated aromatic hydrocarbons (PHAHs). Toxicology in Vitro, 2006, 20, 490-498.	1.1	79
20	In Vitro Assay Shows That PCB Metabolites Completely Saturate Thyroid Hormone Transport Capacity in Blood of Wild Polar Bears (Ursus maritimus). Environmental Science & Technology, 2010, 44, 3149-3154.	4.6	77
21	T-Screen as a tool to identify thyroid hormone receptor active compounds. Environmental Toxicology and Pharmacology, 2005, 19, 231-238.	2.0	74
22	Potential of coculture in vitro models to study inflammatory and sensitizing effects of particles on the lung. Toxicology in Vitro, 2011, 25, 1516-1534.	1.1	70
23	Exposure determinants of cadmium in European mothers and their children. Environmental Research, 2015, 141, 69-76.	3.7	64
24	Delayed effects of pre- and early-life time exposure to polychlorinated biphenyls on tadpoles of two amphibian species (Xenopus laevis and Rana temporaria). Environmental Toxicology and Pharmacology, 1999, 8, 1-14.	2.0	63
25	Effects of oral exposure to polychlorinated biphenyls (PCBs) on the development and metamorphosis of two amphibian species (Xenopus laevis and Rana temporaria). Science of the Total Environment, 2000, 262, 147-157.	3.9	62
26	Chemical contaminants in fish species from rivers in the North of Luxembourg: Potential impact on the Eurasian otter (Lutra lutra). Chemosphere, 2010, 78, 785-792.	4.2	54
27	Moniliformin in Norwegian grain. Food Additives and Contaminants, 2004, 21, 598-606.	2.0	53
28	Ag nanoparticles: size- and surface-dependent effects on model aquatic organisms and uptake evaluation with NanoSIMS. Nanotoxicology, 2013, 7, 1168-1178.	1.6	53
29	Lipophilic components of diesel exhaust particles induce pro-inflammatory responses in human endothelial cells through AhR dependent pathway(s). Particle and Fibre Toxicology, 2018, 15, 21.	2.8	52
30	Endothelial responses of the alveolar barrier in vitro in a dose-controlled exposure to diesel exhaust particulate matter. Particle and Fibre Toxicology, 2017, 14, 7.	2.8	51
31	Proteomic approach to nanotoxicity. Journal of Proteomics, 2016, 137, 35-44.	1.2	49
32	New Approaches to Assess the Transthyretin Binding Capacity of Bioactivated Thyroid Hormone Disruptors. Toxicological Sciences, 2012, 130, 94-105.	1.4	45
33	Appropriateness to set a group healthâ€based guidance value for fumonisins and their modified forms. EFSA Journal, 2018, 16, e05172.	0.9	45
34	Pro-inflammatory effects of crystalline- and nano-sized non-crystalline silica particles in a 3D alveolar model. Particle and Fibre Toxicology, 2020, 17, 13.	2.8	42
35	Silver ions are responsible for memory impairment induced by oral administration of silver nanoparticles. Toxicology Letters, 2018, 290, 133-144.	0.4	40
36	Altered Stress-Induced Cortisol Levels in Goats Exposed to Polychlorinated Biphenyls (PCB 126 and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Part A: Current Issues, 2009, 72, 164-172.	1.1	38

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37	Heavy Metal Concentrations in Livers and Kidneys of the Otter (Lutra lutra) from Central Europe. Bulletin of Environmental Contamination and Toxicology, 1998, 60, 273-279.	1.3	37
38	Appropriateness to set a group health based guidance value for T2 and HT2 toxin and its modified forms. EFSA Journal, 2017, 15, e04655.	0.9	37
39	Gammarus fossarum (Crustacea, Amphipoda) as a model organism to study the effects of silver nanoparticles. Science of the Total Environment, 2016, 566-567, 1649-1659.	3.9	35
40	Time-dependent effects of perfluorinated compounds on viability in cerebellar granule neurons: Dependence on carbon chain length and functional group attached. NeuroToxicology, 2017, 63, 70-83.	1.4	35
41	Fate and effects of silver nanoparticles on early life-stage development of zebrafish (Danio rerio) in comparison to silver nitrate. Science of the Total Environment, 2018, 610-611, 972-982.	3.9	35
42	Evaluation of cytogenotoxicity and oxidative stress parameters in male Swiss mice co-exposed to titanium dioxide and zinc oxide nanoparticles. Environmental Toxicology and Pharmacology, 2019, 70, 103204.	2.0	34
43	Differently Environment Stable Bio-Silver Nanoparticles: Study on Their Optical Enhancing and Antibacterial Properties. PLoS ONE, 2013, 8, e77043.	1.1	34
44	Establishing the foundation for an applied molecular taxonomy of otters in Southeast Asia. Conservation Genetics, 2008, 9, 1589-1604.	0.8	33
45	A pilot study on the feasibility of European harmonized human biomonitoring: Strategies towards a common approach, challenges and opportunities. Environmental Research, 2015, 141, 3-14.	3.7	33
46	Combined hazard assessment of mycotoxins and their modified forms applying relative potency factors: Zearalenone and T2/HT2 toxin. Food and Chemical Toxicology, 2019, 131, 110599.	1.8	33
47	In vitro exposure of a 3D-tetraculture representative for the alveolar barrier at the air-liquid interface to silver particles and nanowires. Particle and Fibre Toxicology, 2019, 16, 14.	2.8	33
48	Respiratory sensitization: toxicological point of view on the available assays. Archives of Toxicology, 2018, 92, 803-822.	1.9	31
49	Do the pristine physico-chemical properties of silver and gold nanoparticles influence uptake and molecular effects on Gammarus fossarum (Crustacea Amphipoda)?. Science of the Total Environment, 2018, 643, 1200-1215.	3.9	31
50	A synchronized amphibian metamorphosis assay as an improved tool to detect thyroid hormone disturbance by endocrine disruptors and apolar sediment extracts. Chemosphere, 2007, 70, 93-100.	4.2	30
51	Benchmark of Nanoparticle Tracking Analysis on Measuring Nanoparticle Sizing and Concentration. Journal of Micro and Nano-Manufacturing, 2017, 5, .	0.8	30
52	Estrogenic and antiâ€estrogenic activity of butylparaben, butylated hydroxyanisole, butylated hydroxytoluene and propyl gallate and their binary mixtures on two estrogen responsive cell lines (T47Dâ€Kbluc, MCFâ€7). Journal of Applied Toxicology, 2018, 38, 944-957.	1.4	30
53	Detection of multiple mycotoxin occurrences in soy animal feed by traditional mycological identification combined with molecular species identification. Toxicology Reports, 2015, 2, 275-279.	1.6	29
54	Distribution of PCB 118 and PCB 153 and hydroxylated PCB metabolites (OH-CBs) in maternal, fetal and lamb tissues of sheep exposed during gestation and lactation. Chemosphere, 2010, 80, 1144-1150.	4.2	28

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55	Impact of Endocrine Disruptors on the Thyroid Hormone System. Hormone Research in Paediatrics, 2016, 86, 271-278.	0.8	28
56	Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. Small, 2020, 16, e2003303.	5.2	28
57	The Food Matrix and the Gastrointestinal Fluids Alter the Features of Silver Nanoparticles. Small, 2020, 16, e1907687.	5.2	28
58	Identification and localization of nanoparticles in tissues by mass spectrometry. Surface and Interface Analysis, 2013, 45, 230-233.	0.8	27
59	The bio-nano-interface in predicting nanoparticle fate and behaviour in living organisms: towards grouping and categorising nanomaterials and ensuring nanosafety by design. BioNanoMaterials, 2013, 14, .	1.4	27
60	Silver nanoparticles impact the functional role of Gammarus roeseli (Crustacea Amphipoda). Environmental Pollution, 2016, 208, 608-618.	3.7	27
61	Changes in protein expression in mussels Mytilus galloprovincialis dietarily exposed to PVP/PEI coated silver nanoparticles at different seasons. Aquatic Toxicology, 2019, 210, 56-68.	1.9	26
62	Case study: Possible differences in phthalates exposure among the Czech, Hungarian, and Slovak populations identified based on the DEMOCOPHES pilot study results. Environmental Research, 2015, 141, 118-124.	3.7	25
63	Communication in a Human biomonitoring study: Focus group work, public engagement and lessons learnt in 17 European countries. Environmental Research, 2015, 141, 31-41.	3.7	25
64	Interpreting biomarker data from the COPHES/DEMOCOPHES twin projects: Using external exposure data to understand biomarker differences among countries. Environmental Research, 2015, 141, 86-95.	3.7	25
65	Inhibition of multixenobiotic resistance transporters (MXR) by silver nanoparticles and ions in vitro and in Daphnia magna. Science of the Total Environment, 2016, 569-570, 681-689.	3.9	25
66	Alteration of sperm parameters and reproductive hormones in Swiss mice via oxidative stress after coâ€exposure to titanium dioxide and zinc oxide nanoparticles. Andrologia, 2020, 52, e13758.	1.0	25
67	Identification of cytotoxic principles from Fusarium avenaceum using bioassay-guided fractionation. Toxicon, 2005, 46, 150-159.	0.8	24
68	Hexabromocyclododecane (HBCD) induced changes in the liver proteome of eu- and hypothyroid female rats. Toxicology Letters, 2016, 245, 40-51.	0.4	24
69	Delayed effects of environmentally relevant concentrations of 3,3â€²,4,4â€²-tetrachlorobiphenyl (PCB-77) and non-polar sediment extracts detected in the prolonged-FETAX. Science of the Total Environment, 2007, 381, 307-315.	3.9	23
70	Atrazine and PCB 153 and their effects on the proteome of subcellular fractions of human MCF-7 cells. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 833-841.	1.1	23
71	Effects on bone tissue in ewes (Ovies aries) and their foetuses exposed to PCB 118 and PCB 153. Toxicology Letters, 2010, 192, 126-133.	0.4	22
72	In utero and lactational exposure to PCB 118 and PCB 153 alter ovarian follicular dynamics and GnRHâ€induced luteinizing hormone secretion in female lambs. Environmental Toxicology, 2012, 27, 623-634.	2.1	20

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73	Toward a comprehensive and realistic risk evaluation of engineered nanomaterials in the urban water system. Frontiers in Chemistry, 2014, 2, 39.	1.8	20
74	Individual and combined in vitro (anti)androgenic effects of certain food additives and cosmetic preservatives. Toxicology in Vitro, 2016, 32, 269-277.	1.1	20
75	Appropriateness to set a group health based guidance value for nivalenol and its modified forms. EFSA Journal, 2017, 15, e04751.	0.9	20
76	Lessons learnt on recruitment and fieldwork from a pilot European human biomonitoring survey. Environmental Research, 2015, 141, 15-23.	3.7	18
77	Genetic and systemic toxicity induced by silver and copper oxide nanoparticles, and their mixture in Clarias gariepinus (Burchell, 1822). Environmental Science and Pollution Research, 2019, 26, 27470-27481.	2.7	18
78	Title is missing!. Water, Air, and Soil Pollution, 1998, 106, 481-491.	1.1	17
79	Heavy Metal Concentrations in Fish from a Pristine Rainforest Valley in Peru: A Baseline Study Before the Start of Oil-Drilling Activities. Bulletin of Environmental Contamination and Toxicology, 2002, 69, 523-529.	1.3	16
80	Environmentally Friendly Preparation of Gold and Silver Nanoparticles for Sers Applications Using Biopolymer Pectin. Journal of Applied Spectroscopy, 2015, 81, 962-968.	0.3	16
81	Latex laboratory-gloves: an unexpected pitfall in amphibian toxicity assays with tadpoles. Environmental Toxicology and Pharmacology, 2001, 10, 119-121.	2.0	15
82	Policy relevant results from an expert elicitation on the health risks of phthalates. Environmental Health, 2012, 11, S6.	1.7	15
83	Responsiveness assessment of a 3D tetra-culture alveolar model exposed to diesel exhaust particulate matter. Toxicology in Vitro, 2018, 53, 67-79.	1.1	15
84	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. Nanoscale, 2022, 14, 4690-4704.	2.8	15
85	Weâ€™re only in it for the knowledge? A problem solving turn in environment and health expert elicitation. Environmental Health, 2012, 11, S3.	1.7	14
86	Policy recommendations and cost implications for a more sustainable framework for European human biomonitoring surveys. Environmental Research, 2015, 141, 42-57.	3.7	14
87	Sub-chronic effects of AgNPs and AuNPs on Gammarus fossarum (Crustacea Amphipoda): From molecular to behavioural responses. Ecotoxicology and Environmental Safety, 2021, 210, 111775.	2.9	14
88	In Utero Exposure to Environmentally Relevant Concentrations of PCB 153 and PCB 118 Disrupts Fetal Testis Development in Sheep. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2014, 77, 628-649.	1.1	13
89	Soluble silver ions from silver nanoparticles induce a polarised secretion of interleukin-8 in differentiated Caco-2 cells. Toxicology Letters, 2020, 325, 14-24.	0.4	13
90	Fetal adrenal development: Comparing effects of combined exposures to PCB 118 and PCB 153 in a sheep model. Environmental Toxicology, 2013, 28, 164-177.	2.1	12

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91	An in vitro coculture system for the detection of sensitization following aerosol exposure. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 403-418.	0.9	12
92	Effects of pre- and postnatal polychlorinated biphenyl exposure on emotional reactivity observed in lambs before weaning. Ecotoxicology and Environmental Safety, 2011, 74, 1396-1401.	2.9	11
93	NanoSIMS50 â€" a powerful tool to elucidate cellular localization of halogenated organic compounds. Analytical and Bioanalytical Chemistry, 2012, 404, 2693-2698.	1.9	11
94	Policy relevant Results from an Expert Elicitation on the Human Health Risks of Decabromodiphenyl ether (decaBDE) and Hexabromocyclododecane (HBCD). Environmental Health, 2012, 11, S7.	1.7	11
95	The Added Value of Proteomics for Toxicological Studies. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2014, 17, 225-246.	2.9	11
96	Gender specific differences in the liver proteome of rats exposed to short term and low-concentration hexabromocyclododecane (HBCD). Toxicology Research, 2016, 5, 1273-1283.	0.9	11
97	Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. Nanomaterials, 2020, 10, 1430.	1.9	11
98	How complex should an in vitro model be? Evaluation of complex 3D alveolar model with transcriptomic data and computational biological network models. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 388-402.	0.9	10
99	Potential of In Vitro Methods for Mechanistic Studies of Particulate Matterâ€"Induced Cardiopulmonary Toxicity. Critical Reviews in Environmental Science and Technology, 2011, 41, 1971-2002.	6.6	9
100	Biological effects of allergenâ€"nanoparticle conjugates: uptake and immune effects determined on hAELVi cells under submerged vs. airâ€"liquid interface conditions. Environmental Science: Nano, 2020, 7, 2073-2086.	2.2	9
101	Tailoring the optical properties of ZnO nano-layers and their effect on in vitro biocompatibility. RSC Advances, 2015, 5, 97635-97647.	1.7	8
102	Identification of reference genes for RT-qPCR data normalization in Gammarus fossarum (Crustacea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	8
103	Redox metabolism modulation as a mechanism in SSRI toxicity and pharmacological effects. Archives of Toxicology, 2020, 94, 1417-1441.	1.9	8
104	Maximizing the relevance and reproducibility of A549 cell culture using FBS-free media. Toxicology in Vitro, 2022, 83, 105423.	1.1	8
105	Rocket immunoelectrophoresis and ELISA as complementary methods for the detection of casein in foods?. Food and Agricultural Immunology, 2005, 16, 83-90.	0.7	7
106	Comparison of the biological impact of aerosol of e-vapor device with MESHÂ® technology and cigarette smoke on human bronchial and alveolar cultures. Toxicology Letters, 2021, 337, 98-110.	0.4	7
107	Polychlorinated Biphenyls and Reproductive Performance in Otters From the Norwegian Coast. Archives of Environmental Contamination and Toxicology, 2010, 59, 652-660.	2.1	6
108	Size-Controlled Green Synthesis of Silver Nanoparticles using Dual Functional Plant Leaf Extract at Room Temperature. International Journal of Green Nanotechnology, 2012, 4, 310-325.	0.3	6

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109	Xenopus laevis as a Bioindicator of Endocrine Disruptors in the Region of Central Chile. Archives of Environmental Contamination and Toxicology, 2019, 77, 390-408.	2.1	6
110	The effect of PEGylated iron oxide nanoparticles on sheep ovarian tissue: An ex-vivo nanosafety study. Heliyon, 2020, 6, e04862.	1.4	6
111	Physiological and histopathological alterations in male Swiss mice after exposure to titanium dioxide (anatase) and zinc oxide nanoparticles and their binary mixture. Drug and Chemical Toxicology, 2022, 45, 1188-1213.	1.2	5
112	IN VITRO CELLULAR MODELS, A RESOURCEFUL TOOL IN RESPIRATORY TOXICOLOGY. Farmacia, 2018, 66, 573-580.	0.1	5
113	Modeling, Measuring, and Characterizing Airborne Particles: Case Studies From Southwestern Luxembourg. Critical Reviews in Environmental Science and Technology, 2011, 41, 2077-2096.	6.6	4
114	Gender differences in cadmium and cotinine levels in prepubertal children. Environmental Research, 2015, 141, 125-131.	3.7	4
115	Exposure to Toxoplasma gondii in Marine Otters (Lontra felina) and Domestic Cats (Felis catus) in an Arid Environment in Chile. Journal of Wildlife Diseases, 2020, 56, 962-964.	0.3	4
116	Metabolic Activation of Nonpolar Sediment Extracts Results in Enhanced Thyroid Hormone Disrupting Potency. Environmental Science & Technology, 2013, 47, 130716143653008.	4.6	3
117	Protecting the child while preserving the relationship: Using babyâ€™s relational withdrawal to gauge the effect of parental visitation. PLoS ONE, 2018, 13, e0196685.	1.1	3
118	Yellow snow and red deer: Do urinary metabolites reflect anthropogenic influences?. Ecoscience, 1997, 4, 29-34.	0.6	2
119	The Health and Environment Network and its achievements. Environmental Health, 2012, 11, S1.	1.7	2
120	Dataset of liver proteins of eu- and hypothyroid rats affected in abundance by any of three factors: in vivo exposure to hexabromocyclododecane (HBCD), thyroid status, gender differences. Data in Brief, 2016, 8, 1344-1347.	0.5	2
121	Proteomics in toxicology â€” Added value or waste of energies?. Journal of Proteomics, 2016, 137, 1-2.	1.2	2
122	Forensics on wild animals: Differentiation between otter and pheasant blood using electrophoretic methods. Electrophoresis, 1995, 16, 865-868.	1.3	1
123	Two-dimensional electrophoresis for the study of blood/serum proteins of the otter, an endangered species. Electrophoresis, 1995, 16, 1193-1198.	1.3	1
124	Initial sample extract stock concentration affects in vitro bioassay-based toxicological risk characterization. Journal of Soils and Sediments, 2014, 14, 1200-1212.	1.5	1
125	Dataset of liver proteins changed in eu- and hypothyroid female rats upon in vivo exposure to hexabromocyclododecane (HBCD). Data in Brief, 2016, 7, 386-392.	0.5	1
126	Food Toxicity Characterization Using In Vitro Bioassay Effect-Directed Analysis. Current Nutrition and Food Science, 2010, 6, 70-77.	0.3	1

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127	HENVINETâ€"Health and environment network. Toxicology Letters, 2008, 180, S30.	0.4	0
128	Virtual Summer School: Alternative methods and models in science: A multidisciplinary in vitro approach. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 500-502.	0.9	0