

# Carsten Weiss

## List of Publications by Year in descending order

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76  
papers

5,108  
citations

94269

37  
h-index

85405

71  
g-index

79  
all docs

79  
docs citations

79  
times ranked

8490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zebrafish embryos as an alternative to animal experimentsâ€”A commentary on the definition of the onset of protected life stages in animal welfare regulations. <i>Reproductive Toxicology</i> , 2012, 33, 128-132.	1.3	491
2	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. <i>ACS Nano</i> , 2020, 14, 6383-6406.	7.3	455
3	p27Kip1 induction and inhibition of proliferation by the intracellular Ah receptor in developing thymus and hepatoma cells. <i>Genes and Development</i> , 1999, 13, 1742-1753.	2.7	313
4	Zebrafish embryos as models for embryotoxic and teratological effects of chemicals. <i>Reproductive Toxicology</i> , 2009, 28, 245-253.	1.3	240
5	A strategy for grouping of nanomaterials based on key physico-chemical descriptors as a basis for safer-by-design NMs. <i>Nano Today</i> , 2014, 9, 266-270.	6.2	164
6	Complementation of Ah Receptor Deficiency in Hepatoma Cells: Negative Feedback Regulation and Cell Cycle Control by the Ah Receptor. <i>Experimental Cell Research</i> , 1996, 226, 154-163.	1.2	160
7	Aryl hydrocarbon receptor activation by cAMP vs. dioxin: Divergent signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9218-9223.	3.3	155
8	Airâ€™Liquid Interface<i>In Vitro</i> Models for Respiratory Toxicology Research: Consensus Workshop and Recommendations. <i>Applied in Vitro Toxicology</i> , 2018, 4, 91-106.	0.6	138
9	JNK phosphorylation relieves HDAC3-dependent suppression of the transcriptional activity of c-Jun. <i>EMBO Journal</i> , 2003, 22, 3686-3695.	3.5	129
10	Uptake and intracellular localization of submicron and nano-sized SiO <sub>2</sub> particles in HeLa cells. <i>Archives of Toxicology</i> , 2011, 85, 813-826.	1.9	122
11	Manufactured nanomaterials: categorization and approaches to hazard assessment. <i>Archives of Toxicology</i> , 2014, 88, 2191-2211.	1.9	120
12	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536.	1.1	111
13	DNA damage induces downregulation of histone gene expression through the G1 checkpoint pathway. <i>EMBO Journal</i> , 2004, 23, 1133-1143.	3.5	110
14	Screening of different metal oxide nanoparticles reveals selective toxicity and inflammatory potential of silica nanoparticles in lung epithelial cells and macrophages. <i>Nanotoxicology</i> , 2013, 7, 259-273.	1.6	99
15	The DEXD/H-box RNA helicase RHII/Gu is a co-factor for c-Jun-activated transcription. <i>EMBO Journal</i> , 2002, 21, 451-460.	3.5	96
16	Identification of serum proteins bound to industrial nanomaterials. <i>Toxicology Letters</i> , 2012, 208, 41-50.	0.4	90
17	TCDD induces c-jun expression via a novel Ah (dioxin) receptor-mediated p38â€™MAPK-dependent pathway. <i>Oncogene</i> , 2005, 24, 4975-4983.	2.6	87
18	Supreme EnLIGHTenment: Damage Recognition and Signaling in the Mammalian UV Response. <i>Molecular Cell</i> , 2008, 29, 279-290.	4.5	83

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19	Toxicity of wood smoke particles in human A549 lung epithelial cells: the role of PAHs, soot and zinc. <i>Archives of Toxicology</i> , 2016, 90, 3029-3044.	1.9	83
20	Menin uncouples Elk-1, JunD and c-Jun phosphorylation from MAP kinase activation. <i>Oncogene</i> , 2002, 21, 6434-6445.	2.6	82
21	TCDD deregulates contact inhibition in rat liver oval cells via Ah receptor, JunD and cyclin A. <i>Oncogene</i> , 2008, 27, 2198-2207.	2.6	72
22	Silica nanoparticles are less toxic to human lung cells when deposited at the air-liquid interface compared to conventional submerged exposure. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1590-1602.	1.5	72
23	The aryl hydrocarbon receptor-dependent deregulation of cell cycle control induced by polycyclic aromatic hydrocarbons in rat liver epithelial cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007, 615, 87-97.	0.4	71
24	<i>In vitro</i> toxicity of amorphous silica nanoparticles in human colon carcinoma cells. <i>Nanotoxicology</i> , 2013, 7, 274-293.	1.6	70
25	p38 <sup>MAPK</sup> is required for contact inhibition. <i>Oncogene</i> , 2005, 24, 7941-7945.	2.6	68
26	Characterization of Nanoparticle Batch-To-Batch Variability. <i>Nanomaterials</i> , 2018, 8, 311.	1.9	62
27	Differential Nanoparticle Sequestration by Macrophages and Scavenger Endothelial Cells Visualized <i>In Vivo</i> in Real-Time and at Ultrastructural Resolution. <i>ACS Nano</i> , 2020, 14, 1665-1681.	7.3	62
28	Ultrafast Synthesis of Multivalent Radical Nanoparticles by Ring-Opening Metathesis Polymerization-Induced Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4725-4731.	7.2	57
29	Toxicity testing of combustion aerosols at the air-liquid interface with a self-contained and easy-to-use exposure system. <i>Journal of Aerosol Science</i> , 2016, 96, 38-55.	1.8	56
30	The Alternaria mycotoxins alternariol and alternariol methyl ether induce cytochrome P450 1A1 and apoptosis in murine hepatoma cells dependent on the aryl hydrocarbon receptor. <i>Archives of Toxicology</i> , 2012, 86, 625-632.	1.9	53
31	Autophagy induced by silica nanoparticles protects RAW264.7 macrophages from cell death. <i>Toxicology</i> , 2017, 379, 40-47.	2.0	53
32	The protein corona suppresses the cytotoxic and pro-inflammatory response in lung epithelial cells and macrophages upon exposure to nanosilica. <i>Archives of Toxicology</i> , 2019, 93, 871-885.	1.9	53
33	Differential p38-dependent signalling in response to cellular stress and mitogenic stimulation in fibroblasts. <i>Cell Communication and Signaling</i> , 2012, 10, 6.	2.7	51
34	A technical mixture of 2,2,4,4-tetrabromo diphenyl ether (BDE47) and brominated furans triggers aryl hydrocarbon receptor (AhR) mediated gene expression and toxicity. <i>Chemosphere</i> , 2008, 73, 209-215.	4.2	50
35	Role and interaction of p53, BAX and the stress-activated protein kinases p38 and JNK in benzo(a)pyrene-diolepoxide induced apoptosis in human colon carcinoma cells. <i>Archives of Toxicology</i> , 2012, 86, 329-337.	1.9	41
36	Chk1 Targeting Reactivates PP2A Tumor Suppressor Activity in Cancer Cells. <i>Cancer Research</i> , 2013, 73, 6757-6769.	0.4	41

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37	Microscopy-based high-throughput assays enable multi-parametric analysis to assess adverse effects of nanomaterials in various cell lines. <i>Archives of Toxicology</i> , 2018, 92, 633-649.	1.9	41
38	Deregulated Repression of c-Jun Provides a Potential Link to its Role in Tumorigenesis. <i>Cell Cycle</i> , 2004, 3, 109-111.	1.3	40
39	Biocompatibility of Amine-Functionalized Silica Nanoparticles: The Role of Surface Coverage. <i>Small</i> , 2019, 15, e1805400.	5.2	38
40	Straightforward access to biocompatible poly(2-oxazoline)-coated nanomaterials by polymerization-induced self-assembly. <i>Chemical Communications</i> , 2019, 55, 3741-3744.	2.2	38
41	Influence of wood species on toxicity of log-wood stove combustion aerosols: a parallel animal and air-liquid interface cell exposure study on spruce and pine smoke. <i>Particle and Fibre Toxicology</i> , 2020, 17, 27.	2.8	38
42	In Vitro Exposure Systems and Bioassays for the Assessment of Toxicity of Nanoparticles to the Human Lung. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2008, 3, 319-329.	0.5	37
43	c-Jun localizes to the nucleus independent of its phosphorylation by and interaction with JNK and vice versa promotes nuclear accumulation of JNK. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 735-740.	1.0	36
44	Anti-oxidative and inflammatory responses induced by fly ash particles and carbon black in lung epithelial cells. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3197-3212.	1.9	36
45	Air-Liquid Interface Exposure of Lung Epithelial Cells to Low Doses of Nanoparticles to Assess Pulmonary Adverse Effects. <i>Nanomaterials</i> , 2021, 11, 65.	1.9	34
46	The p27-Skp2 axis mediates glucocorticoid-induced cell cycle arrest in T-lymphoma cells. <i>Cell Cycle</i> , 2013, 12, 2625-2635.	1.3	31
47	Female versus male biological identities of nanoparticles determine the interaction with immune cells in fish. <i>Environmental Science: Nano</i> , 2017, 4, 895-906.	2.2	31
48	Nano Meets Micro-Translational Nanotechnology in Medicine: Nano-Based Applications for Early Tumor Detection and Therapy. <i>Nanomaterials</i> , 2020, 10, 383.	1.9	30
49	Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel. <i>PLoS ONE</i> , 2016, 11, e0157964.	1.1	29
50	Polybrominated diphenyl ethers and arylhydrocarbon receptor agonists: Different toxicity and target gene expression. <i>Toxicology Letters</i> , 2010, 198, 119-126.	0.4	28
51	Impact of Alternaria toxins on CYP1A1 expression in different human tumor cells and relevance for genotoxicity. <i>Toxicology Letters</i> , 2016, 240, 93-104.	0.4	28
52	Lung toxicity determination by in vitro exposure at the air liquid interface with an integrated online dose measurement. <i>Journal of Physics: Conference Series</i> , 2009, 170, 012008.	0.3	27
53	Regulation of the arachidonic acid mobilization in macrophages by combustion-derived particles. <i>Particle and Fibre Toxicology</i> , 2011, 8, 23.	2.8	27
54	Intrinsically Fluorescent, Stealth Polypyrazoline Nanoparticles with Large Stokes Shift for In Vivo Imaging. <i>Small</i> , 2018, 14, e1801571.	5.2	25

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55	Revisiting the stress paradigm for silica nanoparticles: decoupling of the anti-oxidative defense, pro-inflammatory response and cytotoxicity. <i>Archives of Toxicology</i> , 2018, 92, 2163-2174.	1.9	24
56	Influence of aryl hydrocarbon- (Ah) receptor and genotoxins on DNA repair gene expression and cell survival of mouse hepatoma cells. <i>Toxicology</i> , 2009, 259, 91-96.	2.0	23
57	A special issue on nanotoxicology. <i>Archives of Toxicology</i> , 2011, 85, 705-706.	1.9	23
58	Contrast of Backscattered Electron SEM Images of Nanoparticles on Substrates with Complex Structure. <i>Scanning</i> , 2017, 2017, 1-12.	0.7	21
59	Validation of weak biological effects by round robin experiments: cytotoxicity/biocompatibility of SiO <sub>2</sub> and polymer nanoparticles in HepG2 cells. <i>Scientific Reports</i> , 2017, 7, 4341.	1.6	18
60	Effects of incremental endosulfan sulfate exposure and high fat diet on lipid metabolism, glucose homeostasis and gut microbiota in mice. <i>Environmental Pollution</i> , 2021, 268, 115697.	3.7	18
61	Silica Nanoparticles Provoke Cell Death Independent of p53 and BAX in Human Colon Cancer Cells. <i>Nanomaterials</i> , 2019, 9, 1172.	1.9	17
62	Amorphous Silica Particles Relevant in Food Industry Influence Cellular Growth and Associated Signaling Pathways in Human Gastric Carcinoma Cells. <i>Nanomaterials</i> , 2017, 7, 18.	1.9	14
63	Assessment of in vitro particle dosimetry models at the single cell and particle level by scanning electron microscopy. <i>Journal of Nanobiotechnology</i> , 2018, 16, 100.	4.2	13
64	Boron-rich, cytocompatible block copolymer nanoparticles by polymerization-induced self-assembly. <i>Polymer Chemistry</i> , 2021, 12, 50-56.	1.9	12
65	Mouse hepatoma cell lines differing in aryl hydrocarbon receptor-mediated signaling have different activities for glucuronidation. <i>Archives of Toxicology</i> , 2012, 86, 643-649.	1.9	11
66	Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. <i>Nanomaterials</i> , 2020, 10, 1430.	1.9	11
67	Surface functionalisation-dependent adverse effects of metal nanoparticles and nanoplastics in zebrafish embryos. <i>Environmental Science: Nano</i> , 2022, 9, 375-392.	2.2	10
68	Characterization of indoor dust from Brazil and evaluation of the cytotoxicity in A549 lung cells. <i>Environmental Geochemistry and Health</i> , 2014, 36, 225-233.	1.8	8
69	The nucleotide excision repair protein XPC is essential for bulky DNA adducts to promote interleukin-6 expression via the activation of p38-SAPK. <i>Oncogene</i> , 2016, 35, 908-918.	2.6	8
70	Ultraschnelle Synthese multivalenter radikalischer Nanopartikel durch ringöffnende Metathesepolymerisationsinduzierte Selbstorganisation. <i>Angewandte Chemie</i> , 2019, 131, 4775-4781.	1.6	7
71	Automatic Tuning of Image Segmentation Parameters by Means of Fuzzy Feature Evaluation. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 459-467.	0.5	5
72	Transrepression of AP-1 by nuclear receptors in Drosophila. <i>Mechanisms of Development</i> , 2002, 115, 91-100.	1.7	4

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73	Circadian rhythms and chemical carcinogenesis: Potential link. An overview. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 680, 83-86.	0.9	2
74	Track I. Biomedizinische Technik, 2014, 59, s490-648.	0.9	1
75	Radiation Induced Cytoplasmic Signaling. , 2010, , 2225-2230.		0
76	Abstract 4194: Constitutive DNA-damage signaling promotes cancer cell proliferation through Chk1-CIP2A pathway independent of ATM-ATR. , 2011, , .		0