Andrea Hartwig

List of Publications by Citations

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147 papers	7,864 citations	47 h-index	86 g-index
158 ext. papers	8,645 ext. citations	4.4 avg, IF	6.41 L-index

#	Paper	IF	Citations
147	Carcinogenic metal compounds: recent insight into molecular and cellular mechanisms. *Archives of Toxicology*, **2008**, 82, 493-512	5.8	770
146	Role of magnesium in genomic stability. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2001**, 475, 113-21	3.3	392
145	Establishing the background level of base oxidation in human lymphocyte DNA: results of an interlaboratory validation study. *FASEB Journal*, **2005**, 19, 82-4	0.9	354
144	Measurement of DNA oxidation in human cells by chromatographic and enzymic methods. *Free Radical Biology and Medicine*, **2003**, 34, 1089-99	7.8	226
143	Zinc finger proteins as potential targets for toxic metal ions: differential effects on structure and function. *Antioxidants and Redox Signaling*, **2001**, 3, 625-34	8.4	211
142	Interactions by carcinogenic metal compounds with DNA repair processes: toxicological implications. *Toxicology Letters*, **2002**, 127, 47-54	4.4	197
141	Carcinogenicity of metal compounds: possible role of DNA repair inhibition. *Toxicology Letters*, **1998**, 102-103, 235-9	4.4	192
140	Induction and repair inhibition of oxidative DNA damage by nickel(II) and cadmium(II) in mammalian cells. *Carcinogenesis*, **1997**, 18, 1021-6	4.6	184
139	Induction of oxidative DNA damage by arsenite and its trivalent and pentavalent methylated metabolites in cultured human cells and isolated DNA. *Carcinogenesis*, **2003**, 24, 967-74	4.6	171
138	Comparative analysis of baseline 8-oxo-7,8-dihydroguanine in mammalian cell DNA, by different methods in different laboratories: an approach to consensus. *Carcinogenesis*, **2002**, 23, 2129-33	4.6	164
137	Current aspects in metal genotoxicity. *BioMetals*, **1995**, 8, 3-11	3.4	164
136	Mutagenicity testing for chemical risk assessment: update of the WHO/IPCS Harmonized Scheme. *Mutagenesis*, **2009**, 24, 341-9	2.8	160
135	Differential effects of toxic metal compounds on the activities of Fpg and XPA, two zinc finger proteins involved in DNA repair. *Carcinogenesis*, **2000**, 21, 2097-104	4.6	148
134	Mechanisms in cadmium-induced carcinogenicity: recent insights. *BioMetals*, **2010**, 23, 951-60	3.4	138
133	Co(II) and Cd(II) substitute for Zn(II) in the zinc finger derived from the DNA repair protein XPA, demonstrating a variety of potential mechanisms of toxicity. *Chemical Research in Toxicology*, **2004**, 17, 1452-8	4	134
132	Interaction of arsenic(III) with nucleotide excision repair in UV-irradiated human fibroblasts. *Carcinogenesis*, **1997**, 18, 399-405	4.6	130
131	Cadmium and cancer. *Metal Ions in Life Sciences*, **2013**, 11, 491-507	2.6	127

130	Cytotoxicity and genotoxicity of nano - and microparticulate copper oxide: role of solubility and intracellular bioavailability. *Particle and Fibre Toxicology*, **2014**, 11, 10	8.4	121
129	Modulation of DNA repair processes by arsenic and selenium compounds. *Toxicology*, **2003**, 193, 161-9	4.4	121
128	Interference by toxic metal ions with zinc-dependent proteins involved in maintaining genomic stability. *Food and Chemical Toxicology*, **2002**, 40, 1179-84	4.7	117
127	Arsenite and its biomethylated metabolites interfere with the formation and repair of stable BPDE-induced DNA adducts in human cells and impair XPAzf and Fpg. *DNA Repair*, **2003**, 2, 1449-63	4.3	107
126	Sensory irritation as a basis for setting occupational exposure limits. *Archives of Toxicology*, **2014**, 88, 1855-79	5.8	104
125	The Health Effects of Aluminum Exposure. *Deutsches Ärzteblatt International*, **2017**, 114, 653-659	2.5	100
124	Metal interaction with redox regulation: an integrating concept in metal carcinogenesis?. *Free Radical Biology and Medicine*, **2013**, 55, 63-72	7.8	95
123	1,4-Naphthoquinones as inducers of oxidative damage and stress signaling in HaCaT human keratinocytes. *Archives of Biochemistry and Biophysics*, **2010**, 496, 93-100	4.1	95
122	Genetic toxicology of lead compounds. *Carcinogenesis*, **1988**, 9, 1727-32	4.6	95
121	Interference by toxic metal compounds with isolated zinc finger DNA repair proteins. *Toxicology Letters*, **2000**, 112-113, 227-31	4.4	85
120	The genetic toxicology of cobalt. *Toxicology and Applied Pharmacology*, **1992**, 115, 137-45	4.6	84
119	Genotoxicity of soluble and particulate cadmium compounds: impact on oxidative DNA damage and nucleotide excision repair. *Chemical Research in Toxicology*, **2010**, 23, 432-42	4	79
118	Sensitive analysis of oxidative DNA damage in mammalian cells: use of the bacterial Fpg protein in combination with alkaline unwinding. *Toxicology Letters*, **1996**, 88, 85-90	4.4	79
117	Indirect mechanism of lead-induced genotoxicity in cultured mammalian cells. *Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure*, **1990**, 241, 75-82		77
116	Disturbance of DNA damage recognition after UV-irradiation by nickel(II) and cadmium(II) in mammalian cells. *Carcinogenesis*, **1998**, 19, 617-21	4.6	75
115	Highly monodisperse water-dispersable iron oxide nanoparticles for biomedical applications. *Journal of Materials Chemistry*, **2010**, 20, 7842		73
114	Monomethylarsonous acid destroys a tetrathiolate zinc finger much more efficiently than inorganic arsenite: mechanistic considerations and consequences for DNA repair inhibition. *Chemical Research in Toxicology*, **2008**, 21, 600-6	4	72
113	Impact of arsenite and its methylated metabolites on PARP-1 activity, PARP-1 gene expression and poly(ADP-ribosyl)ation in cultured human cells. *DNA Repair*, **2007**, 6, 61-70	4.3	72

112	Arsenicals affect base excision repair by several mechanisms. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2011**, 715, 32-41	3.3	71
111	Mechanism of nickel assault on the zinc finger of DNA repair protein XPA. *Chemical Research in Toxicology*, **2003**, 16, 242-8	4	69
110	Very low concentrations of arsenite suppress poly(ADP-ribosyl)ation in mammalian cells. *International Journal of Cancer*, **2003**, 104, 1-6	7.5	68
109	Interaction of selenium compounds with zinc finger proteins involved in DNA repair. *FEBS Journal*, **2004**, 271, 3190-9		67
108	Cellular damage by ferric nitrilotriacetate and ferric citrate in V79 cells: interrelationship between lipid peroxidation, DNA strand breaks and sister chromatid exchanges. *Carcinogenesis*, **1993**, 14, 107-12	4.6	67
107	Comutagenicity and inhibition of DNA repair by metal ions in mammalian cells. *Biological Trace Element Research*, **1989**, 21, 359-65	4.5	66
106	In vitro and in vivo genotoxicity investigations of differently sized amorphous SiO2 nanomaterials. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2015**, 794, 57-74	3	56
105	Inter-laboratory validation of procedures for measuring 8-oxo-7,8-dihydroguanine/8-oxo-7,8-dihydro-2Sdeoxyguanosine in DNA. *Free Radical Research*, **2002**, 36, 239-45	4	56
104	Levels and predictors of airborne and internal exposure to manganese and iron among welders. *Journal of Exposure Science and Environmental Epidemiology*, **2012**, 22, 291-8	6.7	53
103	The C-terminal domain of p53 orchestrates the interplay between non-covalent and covalent poly(ADP-ribosyl)ation of p53 by PARP1. *Nucleic Acids Research*, **2018**, 46, 804-822	20.1	52
102	Exposure to inhalable, respirable, and ultrafine particles in welding fume. *Annals of Occupational Hygiene*, **2012**, 56, 557-67		52
101	Levels and predictors of airborne and internal exposure to chromium and nickel among welders--results of the WELDOX study. *International Journal of Hygiene and Environmental Health*, **2013**, 216, 175-83	6.9	51
100	Comparison between micro- and nanosized copper oxide and water soluble copper chloride: interrelationship between intracellular copper concentrations, oxidative stress and DNA damage response in human lung cells. *Particle and Fibre Toxicology*, **2017**, 14, 28	8.4	47
99	Cobalt(II) inhibits the incision and the polymerization step of nucleotide excision repair in human fibroblasts. *Mutation Research DNA Repair*, **1997**, 383, 81-9		47
98	Effect of soluble and particulate nickel compounds on the formation and repair of stable benzo[a]pyrene DNA adducts in human lung cells. *Carcinogenesis*, **2002**, 23, 47-53	4.6	47
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96	The role of DNA repair in benzene-induced carcinogenesis. *Chemico-Biological Interactions*, **2010**, 184, 269-72	5	46
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94	Chemically induced pheochromocytomas in rats: mechanisms and relevance for human risk assessment. *Critical Reviews in Toxicology*, **2009**, 39, 695-718	5.7	44
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92	Enhancement of UV-induced mutagenesis and sister-chromatid exchanges by nickel ions in V79 cells: evidence for inhibition of DNA repair. *Mutation Research DNA Repair*, **1989**, 217, 65-73		40
91	Impact of arsenic on nucleotide excision repair: XPC function, protein level, and gene expression. *Molecular Nutrition and Food Research*, **2009**, 53, 572-82	5.9	38
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82	Role of DNA Repair Inhibition in Lead- and Cadmium-Induced Genotoxicity: A Review. *Environmental Health Perspectives*, **1994**, 102, 45	8.4	32
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76	Detection of 2-alkylcyclobutanones, markers for irradiated foods, in adipose tissues of animals fed with these substances. *Journal of Food Protection*, **2002**, 65, 1610-3	2.5	24
75	BPDE-induced genotoxicity: relationship between DNA adducts, mutagenicity in the in vitro PIG-A assay, and the transcriptional response to DNA damage in TK6 cells. *Archives of Toxicology*, **2018**, 92, 541-551	5.8	23
74	Effect of cadmium(II) on the extent of oxidative DNA damage in primary brain cell cultures from Pleurodeles larvae. *Toxicology Letters*, **1998**, 94, 217-25	4.4	23
73	The broccoli-born isothiocyanate sulforaphane impairs nucleotide excision repair: XPA as one potential target. *Archives of Toxicology*, **2014**, 88, 647-58	5.8	22
72	Toxicological potential of 2-alkylcyclobutanones--specific radiolytic products in irradiated fat-containing food--in bacteria and human cell lines. *Food and Chemical Toxicology*, **2007**, 45, 2581-91	4.7	21
71	Nickel(II) inhibits the repair of O6-methylguanine in mammalian cells. *Archives of Toxicology*, **1998**, 72, 681-9	5.8	20
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69	PARP1 catalytic variants reveal branching and chain length-specific functions of poly(ADP-ribose) in cellular physiology and stress response. *Nucleic Acids Research*, **2020**, 48, 10015-10033	20.1	20
68	The Pig-a Gene Mutation Assay in Mice and Human Cells: A Review. *Basic and Clinical Pharmacology and Toxicology*, **2017**, 121 Suppl 3, 78-92	3.1	19
67	Nickel(II) increases the sensitivity of V79 Chinese hamster cells towards cisplatin and transplatin by interference with distinct steps of DNA repair. *Carcinogenesis*, **1999**, 20, 1177-84	4.6	19
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62	Bioavailability and biotransformation of sulforaphane and erucin metabolites in different biological matrices determined by LC-MS-MS. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 1819-29	4.4	17
61	Impact of cadmium on hOGG1 and APE1 as a function of the cellular p53 status. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2012**, 736, 56-63	3.3	17
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55	Bioavailability and genotoxicity of soluble and particulate nickel compounds in cultured human lung cells. *Materialwissenschaft Und Werkstofftechnik*, **2006**, 37, 521-525	0.9	15
54	Influence of welding fume on systemic iron status. *Annals of Occupational Hygiene*, **2014**, 58, 1143-54		14
53	Mechanisms of cobalt(II) uptake into V79 Chinese hamster cells. *Archives of Toxicology*, **1992**, 66, 592-7	5.8	14
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51	Biophysical analysis of the interaction of toxic metal ions and oxidants with the zinc finger domain of XPA. *Methods in Molecular Biology*, **2010**, 649, 399-410	1.4	13
50	Evaluation of mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) in pure mineral hydrocarbon-based cosmetics and cosmetic raw materials using H NMR spectroscopy. *F1000Research*, **2017**, 6, 682	3.6	12
49	Allocation of reliable analytical procedures for human biomonitoring published by the DFG Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area. *International Journal of Hygiene and Environmental Health*, **2012**, 215, 233-7	6.9	12
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47	Comparative Study of the Mode of Action of Clinically Approved Platinum-Based Chemotherapeutics. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
46	Competition between Al and Fe binding to human transferrin and toxicological implications: structural investigations using ultra-high resolution ESI MS and CD spectroscopy. *Metallomics*, **2019**, 11, 968-981	4.5	11
45	Unusual Zn(II) Affinities of Zinc Fingers of Poly(ADP-ribose)Polymerase 1 (PARP-1) Nuclear Protein. *Chemical Research in Toxicology*, **2015**, 28, 191-201	4	11
44	Activity profile of the cisplatin analogue PN149 in different tumor cell lines. *Biochemical Pharmacology*, **2018**, 156, 109-119	6	11
43	Enhancement of UV and chromate mutagenesis by nickel ions in the Chinese hamster HGPRT Assay Presented January 21, 1986 at the 2nd IAEAC Workshop on Carcinogenic and/or Mutagenic Metal Compounds in CH-1884 Villars-sur-Ollon.. *Toxicological and Environmental Chemistry*, **1987**, 14, 33-42	1.4	11
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41	Toxicity and Gene Expression Profiling of Copper- and Titanium-Based Nanoparticles Using Air-Liquid Interface Exposure. *Chemical Research in Toxicology*, **2020**, 33, 1237-1249	4	10

40	Impact of Endocytosis and Lysosomal Acidification on the Toxicity of Copper Oxide Nano- and Microsized Particles: Uptake and Gene Expression Related to Oxidative Stress and the DNA Damage Response. *Nanomaterials*, **2020**, 10,	5.4	10
39	Pro-oxidative effects of melanoidin□copper complexes on isolated and cellular DNA. *European Food Research and Technology*, **2012**, 234, 663-670	3.4	9
38	Efficient reaction pathway for the synthesis of saturated and mono-unsaturated 2-alkylcyclobutanones. *Radiation Physics and Chemistry*, **2002**, 65, 233-239	2.5	9
37	Analysis of inflammatory markers and metals in nasal lavage fluid of welders. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2016**, 79, 1144-1157	3.2	9
36	Evaluation of mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) in pure mineral hydrocarbon-based cosmetics and cosmetic raw materials using 1H NMR spectroscopy. *F1000Research*, **2017**, 6, 682	3.6	8
35	Sulforaphane inhibits damage-induced poly (ADP-ribosyl)ation via direct interaction of its cellular metabolites with PARP-1. *Molecular Nutrition and Food Research*, **2015**, 59, 2231-42	5.9	8
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33	Arsenic-Induced Carcinogenicity: New Insights in Molecular Mechanism491-510		7
32	Uptake and genotoxicity of micromolar concentrations of cobalt chloride in mammalian cells. *Toxicological and Environmental Chemistry*, **1990**, 28, 205-215	1.4	7
31	PARP1 Is Required for ATM-Mediated p53 Activation and p53-Mediated Gene Expression after Ionizing Radiation. *Chemical Research in Toxicology*, **2020**, 33, 1933-1940	4	6
30	Metallionen zwischen Essenzialität und Toxizität. *Chemie in Unserer Zeit*, **2000**, 34, 224-231	0.2	6
29	Comparison of progestin transcriptional profiles in rat mammary gland using Laser Capture Microdissection and whole tissue-sampling. *Experimental and Toxicologic Pathology*, **2013**, 65, 949-60		5
28	Disruption of DNA repair processes by carcinogenic metal compounds. *FreseniusJournal of Analytical Chemistry*, **1998**, 361, 377-380		5
27	Cadmium and Its Impact on Genomic Stability **2018**, 107-125		4
26	Classification of skin sensitizing substances: a comparison between approaches used by the DFG-MAK Commission and the European Union legislation. *Regulatory Toxicology and Pharmacology* , **2011**, 61, 1-8	3.4	3
25	The Reactions of HO and GSNO with the Zinc Finger Motif of XPA. Not A Regulatory Mechanism, But No Synergy with Cadmium Toxicity. *Molecules*, **2020**, 25,	4.8	3
24	Quantification of Mineral Oil Aromatic Hydrocarbons (MOAH) in Anhydrous Cosmetics Using 1H NMR. *Journal of Chemistry*, **2019**, 2019, 1-10	2.3	2
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22	Toxic metals and metalloids in foods **2012**, 233-249		2
21	Lebensmittelchemie 2008. *Nachrichten Aus Der Chemie*, **2009**, 57, 312-316	0.1	2
20	The potential use of mutation spectra in cancer related genes in genetic toxicology: a statement of a GUM working group. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2001**, 473, 263-7	3.3	2
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18	Impact of Nanocomposite Combustion Aerosols on A549 Cells and a 3D Airway Model. *Nanomaterials*, **2021**, 11,	5.4	2
17	Metal-Based Nanoparticles with Special Emphasis to Copper65-67		2
16	Effect of Metal Compounds on the Function of Zinc Finger Proteins Involved in DNA Repair **1999**, 159-169		2
15	Classification or non-classification of substances with positive tumor findings in animal studies: Guidance by the German MAK commission. *Regulatory Toxicology and Pharmacology*, **2019**, 108, 104444	3.4	1
14	Stellungnahme zur Publikation: Zhang H, Budnik LT, Baur X (2010) Neues zur Toxizität und Kanzerogenität des Begasungsmittels Brommethan. Zbl Arbeitsmed 60: 58–60. *Zentralblatt Fur Arbeitsmedizin, Arbeitsschutz Und Ergonomie*, **2011**, 61, 426-427	0.3	1
13	Impact of the Cellular Zinc Status on PARP-1 Activity and Genomic Stability in HeLa S3 Cells. *Chemical Research in Toxicology*, **2021**, 34, 839-848	4	1
12	In Vitro Nephrotoxicity Studies of Established and Experimental Platinum-Based Compounds. *Biomedicines*, **2021**, 9,	4.8	1
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9	Kalibrierung [Air Monitoring Methods in German language, 2016] **2016**, 1, 1319-1339		
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6	Einfluss der Lebensmittelprozessierung auf die Bioverfügbarkeit von Kupfer: Untersuchungen zur zellulären Kupferaufnahme aus CuSO4 und Melanoidin-Cu-Komplexen. *Perspectives in Science*, **2015**, 3, 12-17	0.8	
5	Toxic Metals and Metalloids in Foods **2017**, 209-222		

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3 Analytical Procedure for the Quantification of in vitro Induced Pt- and Pd-DNA Adducts in Human Lung Cells **2006**, 215-227

2 Response to Salaspuro and Lachenmeier, 2020, letter to the editor in Archives of Toxicology. *Archives of Toxicology*, **2020**, 94, 3929-3930 5.8

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