

Peter J Boogaard

List of Publications by Year in descending order

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107
papers

3,059
citations

136950

32
h-index

197818

49
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113
all docs

113
docs citations

113
times ranked

2256
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological monitoring of exposure to benzene: a comparison between S-phenylmercapturic acid, trans,trans-muconic acid, and phenol.. Occupational and Environmental Medicine, 1995, 52, 611-620.	2.8	159
2	Guidelines for the derivation of Biomonitoring Equivalents: Report from the Biomonitoring Equivalents Expert Workshop. Regulatory Toxicology and Pharmacology, 2008, 51, S4-S15.	2.7	147
3	The use of biomonitoring data in exposure and human health risk assessment: benzene case study. Critical Reviews in Toxicology, 2013, 43, 119-153.	3.9	107
4	Guidelines for the communication of Biomonitoring Equivalents: Report from the Biomonitoring Equivalents Expert Workshop. Regulatory Toxicology and Pharmacology, 2008, 51, S16-S26.	2.7	99
5	Exposure to polycyclic aromatic hydrocarbons in petrochemical industries by measurement of urinary 1-hydroxypyrene.. Occupational and Environmental Medicine, 1994, 51, 250-258.	2.8	91
6	Biomarkers of Exposure to 1,3-Butadiene as a Basis for Cancer Risk Assessment. Toxicological Sciences, 2000, 56, 189-202.	3.1	80
7	The Role of Hydrolysis in the Detoxification of 1,2:3,4-Diepoxybutane by Human, Rat, and Mouse Liver and Lung in Vitro. Toxicology and Applied Pharmacology, 1996, 141, 617-627.	2.8	78
8	Creating context for the use of DNA adduct data in cancer risk assessment: II. Overview of methods of identification and quantitation of DNA damage. Critical Reviews in Toxicology, 2009, 39, 679-694.	3.9	75
9	Glutathione Conjugation of 1,2:3,4-Diepoxybutane in Human Liver and Rat and Mouse Liver and Lung in Vitro. Toxicology and Applied Pharmacology, 1996, 136, 307-316.	2.8	73
10	Biomonitoring of exposure to ethylene oxide and propylene oxide by determination of hemoglobin adducts: correlations between airborne exposure and adduct levels. International Archives of Occupational and Environmental Health, 1999, 72, 142-150.	2.3	69
11	A chemicalâ€™biological similarity-based grouping of complex substances as a prototype approach for evaluating chemical alternatives. Green Chemistry, 2016, 18, 4407-4419.	9.0	69
12	Biomarkers for assessing occupational exposures to 1,3-butadiene. Chemico-Biological Interactions, 2001, 135-136, 429-453.	4.0	64
13	Use of haemoglobin adducts in exposure monitoring and risk assessment. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 778, 309-322.	2.3	59
14	Building scientific confidence in the development and evaluation of read-across. Regulatory Toxicology and Pharmacology, 2015, 72, 117-133.	2.7	56
15	Biological effect monitoring in industrial workers following incidental exposure to high concentrations of ethylene oxide. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1995, 329, 63-77.	1.0	55
16	Toxicity of the cysteine-S-conjugates and mercapturic acids of four structurally related difluoroethylenes in isolated proximal tubular cells from rat kidney. Biochemical Pharmacology, 1989, 38, 3731-3741.	4.4	54
17	Urinary excretion of N -acetyl- S -allyl- L -cysteine upon garlic consumption by human volunteers. Archives of Toxicology, 1996, 70, 635-639.	4.2	54
18	The role of metallothionein in the reduction of cisplatin-induced nephrotoxicity by Bi3+-pretreatment in the rat in vivo and in vitro. Biochemical Pharmacology, 1991, 41, 369-375.	4.4	50

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19	Mutagenicity and cytotoxicity of two regioisomeric mercapturic acids and cysteine S-conjugates of trichloroethylene. <i>Archives of Toxicology</i> , 1991, 65, 373-380.	4.2	49
20	Human biomonitoring as a pragmatic tool to support health risk management of chemicals – Examples under the EU REACH programme. <i>Regulatory Toxicology and Pharmacology</i> , 2011, 59, 125-132.	2.7	49
21	Renal proximal tubular cells in suspension or in primary culture as in vitro models to study nephrotoxicity. <i>Chemico-Biological Interactions</i> , 1990, 76, 251-291.	4.0	48
22	Urinary 1-hydroxypyrene as biomarker of exposure to polycyclic aromatic hydrocarbons in workers in petrochemical industries: baseline values and dermal uptake. <i>Science of the Total Environment</i> , 1995, 163, 203-209.	8.0	48
23	Comparative assessment of gastrointestinal irritant potency in man of tin(II) chloride and tin migrated from packaging. <i>Food and Chemical Toxicology</i> , 2003, 41, 1663-1670.	3.6	47
24	Formation of DNA adducts and induction of mutagenic effects in rats following 4 weeks inhalation exposure to ethylene oxide as a basis for cancer risk assessment. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 447, 27-48.	1.0	45
25	Heavy hydrocarbon fate and transport in the environment. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2017, 50, 333-346.	1.4	44
26	Proposal for the assessment of quantitative dermal exposure limits in occupational environments: Part 1. Development of a concept to derive a quantitative dermal occupational exposure limit. <i>Occupational and Environmental Medicine</i> , 1998, 55, 795-804.	2.8	43
27	Isolated proximal tubular cells from rat kidney as an in vitro model for studies on nephrotoxicity. <i>Toxicology and Applied Pharmacology</i> , 1989, 101, 135-143.	2.8	41
28	Quantitative and qualitative differences in the metabolism of 14C-1,3-butadiene in rats and mice: relevance to cancer susceptibility. <i>Toxicological Sciences</i> , 1999, 49, 186-201.	3.1	38
29	A systematic approach for evaluating and scoring human data. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 66, 241-247.	2.7	36
30	Primary culture of proximal tubular cells from normal rat kidney as an in vitro model to study mechanisms of nephrotoxicity. <i>Biochemical Pharmacology</i> , 1990, 39, 1335-1345.	4.4	35
31	Dermal penetration and metabolism of five glycidyl ethers in human, rat and mouse skin. <i>Xenobiotica</i> , 2000, 30, 469-483.	1.1	35
32	Quantification of DNA Adducts Formed in Liver, Lungs, and Isolated Lung Cells of Rats and Mice Exposed to 14C-Styrene by Nose-Only Inhalation. <i>Toxicological Sciences</i> , 2000, 57, 203-216.	3.1	35
33	Application of the urinary S-phenylmercapturic acid test as a biomarker for low levels of exposure to benzene in industry.. <i>Occupational and Environmental Medicine</i> , 1993, 50, 460-469.	2.8	32
34	Urinary metabolites and haemoglobin adducts as biomarkers of exposure to 1,3-butadiene: a basis for 1,3-butadiene cancer risk assessment.. <i>Chemico-Biological Interactions</i> , 2001, 135-136, 695-701.	4.0	31
35	Identification and quantitative determination of mercapturic acids formed from Z- and E-1,3-dichloropropene by the rat, using gas chromatography with three different detection techniques. <i>Archives of Toxicology</i> , 1986, 59, 235-241.	4.2	30
36	Prenatal developmental toxicity testing of petroleum substances: Application of the mouse embryonic stem cell test (EST) to compare in vitro potencies with potencies observed in vivo. <i>Toxicology in Vitro</i> , 2017, 44, 303-312.	2.4	30

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37	4-methylthiobenzoic acid reduces cisplatin nephrotoxicity in rats without compromising anti-tumour activity. <i>Biochemical Pharmacology</i> , 1991, 41, 1997-2003.	4.4	29
38	Allylmercapturic acid as urinary biomarker of human exposure to allyl chloride.. <i>Occupational and Environmental Medicine</i> , 1997, 54, 653-661.	2.8	26
39	Comparison of the metabolism of ethylene glycol and glycolic acid in vitro by precision-cut tissue slices from female rat, rabbit and human liver. <i>Xenobiotica</i> , 2004, 34, 31-48.	1.1	26
40	An organizational approach for the assessment of DNA adduct data in risk assessment: case studies for aflatoxin B ₁ , tamoxifen and vinyl chloride. <i>Critical Reviews in Toxicology</i> , 2014, 44, 348-391.	3.9	26
41	Toxicogenomics in vitro as an alternative tool for safety evaluation of petroleum substances and PAHs with regard to prenatal developmental toxicity. <i>Toxicology in Vitro</i> , 2015, 29, 299-307.	2.4	26
42	The Role of Endocrine and Dioxin-Like Activity of Extracts of Petroleum Substances in Developmental Toxicity as Detected in a Panel of CALUX Reporter Gene Assays. <i>Toxicological Sciences</i> , 2018, 164, 576-591.	3.1	26
43	Identification of Novel Metabolites of Butadiene Monoepoxide in Rats and Mice. <i>Chemical Research in Toxicology</i> , 1998, 11, 1543-1555.	3.3	25
44	The selective determination of potentially carcinogenic polycyclic aromatic compounds in lubricant base oils by the DMSO extraction method IP346 and its correlation to mouse skin painting carcinogenicity assays. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 106, 316-333.	2.7	25
45	In vitro metabolism of naphthalene and its alkylated congeners by human and rat liver microsomes via alkyl side chain or aromatic oxidation. <i>Chemico-Biological Interactions</i> , 2020, 315, 108905.	4.0	25
46	Isolated proximal tubular cells from rat kidney as an in vitro model for studies on nephrotoxicity. <i>Toxicology and Applied Pharmacology</i> , 1989, 101, 144-157.	2.8	24
47	Proposal for the assessment to quantitative dermal exposure limits in occupational environments: Part 2. Feasibility study for application in an exposure scenario for MDA by two different dermal exposure sampling methods. <i>Occupational and Environmental Medicine</i> , 1998, 55, 805-811.	2.8	24
48	Grouping of Petroleum Substances as Example UVCBs by Ion Mobility-Mass Spectrometry to Enable Chemical Composition-Based Read-Across. <i>Environmental Science & Technology</i> , 2017, 51, 7197-7207.	10.0	23
49	In vitro prenatal developmental toxicity induced by some petroleum substances is mediated by their 3- to 7-ring PAH constituent with a potential role for the aryl hydrocarbon receptor (AhR). <i>Toxicology Letters</i> , 2019, 315, 64-76.	0.8	23
50	Toxicological and ecotoxicological properties of gas-to-liquid (GTL) products. 1. Mammalian toxicology. <i>Critical Reviews in Toxicology</i> , 2017, 47, 121-144.	3.9	22
51	Regeneration experiments of the platinated enzyme fumarase, using sodium diethyldithiocarbamate, thiourea, and sodium thiosulfate. <i>Journal of Inorganic Biochemistry</i> , 1991, 41, 17-24.	3.5	20
52	Effects of Exposure to Elemental Mercury on the Nervous System and the Kidneys of Workers Producing Natural Gas. <i>Archives of Environmental Health</i> , 1996, 51, 108-115.	0.4	20
53	Urinary biomarkers in the risk assessment of PAHs. <i>Occupational and Environmental Medicine</i> , 2008, 65, 221-222.	2.8	20
54	Dermal uptake of petroleum substances. <i>Toxicology Letters</i> , 2015, 235, 123-139.	0.8	20

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55	Increased albumin excretion in industrial workers due to shift work rather than to prolonged exposure to low concentrations of chlorinated hydrocarbons.. Occupational and Environmental Medicine, 1994, 51, 638-641.	2.8	18
56	Metabolism of butadiene by mice, rats, and humans: a comparison of physiologically based toxicokinetic model predictions and experimental data. Toxicology, 1996, 113, 48-54.	4.2	17
57	DNA adducts in rats and mice following exposure to [4-14C]-1,2-epoxy-3-butene and to [2,3-14C]-1,3-butadiene. Chemo-Biological Interactions, 2004, 148, 69-92.	4.0	17
58	Metabolic inactivation of five glycidyl ethers in lung and liver of humans, rats and mice in vitro. Xenobiotica, 2000, 30, 485-502.	1.1	16
59	Disposition of [Ring-U-14C]styrene in Rats and Mice Exposed by Recirculating Nose-Only Inhalation. Toxicological Sciences, 2000, 58, 161-172.	3.1	16
60	3-Chloro-2-hydroxypropylmercapturic acid and 1-chlorohydrin as biomarkers of occupational exposure to epichlorohydrin. Environmental Toxicology and Pharmacology, 1997, 3, 175-185.	4.0	15
61	Comparative toxicokinetics of low-viscosity mineral oil in Fischer 344 rats, Sprague-Dawley rats, and humans – Implications for an Acceptable Daily Intake (ADI). Regulatory Toxicology and Pharmacology, 2012, 63, 69-77.	2.7	15
62	A proposed framework for the interpretation of biomonitoring data. Environmental Health, 2008, 7, S12.	4.0	14
63	Assessment of petroleum streams for thyroid toxicity. Toxicology Letters, 2016, 254, 52-62.	0.8	14
64	Grouping of UVCB substances with new approach methodologies (NAMs) data. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 123-137.	1.5	13
65	Disposition of butadiene epoxides in Sprague-Dawley rats. Chemo-Biological Interactions, 1997, 104, 103-115.	4.0	12
66	Occupational exposure to cis-1,3-dichloropropene: biological effect monitoring of kidney and liver function. Occupational and Environmental Medicine, 2000, 57, 745-751.	2.8	12
67	A novel DNA adduct, originating from 1,2-epoxy-3,4-butanediol, is the major DNA adduct after exposure to [2,3-14C]-1,3-butadiene, but not after exposure to [4-14C]-1,2-epoxy-3-butene. Chemo-Biological Interactions, 2001, 135-136, 687-693.	4.0	12
68	Human biomonitoring activities – Programmes by industry. International Journal of Hygiene and Environmental Health, 2007, 210, 259-261.	4.3	11
69	The role of metabolism in the developmental toxicity of polycyclic aromatic hydrocarbon-containing extracts of petroleum substances. Journal of Applied Toxicology, 2020, 40, 330-341.	2.8	11
70	Nephrotoxicity of halogenated alkenyl cysteine-S-conjugates. Life Sciences, 1991, 49, 1769-1776.	4.3	10
71	Effects of exposure to low concentrations of chlorinated hydrocarbons on the kidney and liver of industrial workers.. Occupational and Environmental Medicine, 1993, 50, 331-339.	2.8	10
72	Personal air sampling and biological monitoring of occupational exposure to the soil fumigant cis-1,3-dichloropropene. Occupational and Environmental Medicine, 2000, 57, 738-744.	2.8	10

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73	Gas chromatography-electron capture determination of styrene-7,8-oxide enantiomers. <i>Biomedical Applications</i> , 2000, 749, 265-274.	1.7	9
74	Development of a competitive immunoassay for the determination of N-(2-hydroxypropyl)valine adducts in human haemoglobin and its application in biological monitoring. <i>Biomarkers</i> , 2005, 10, 127-137.	1.9	9
75	Application of human biomonitoring (HBM) of chemical exposure in the characterisation of health risks under REACH. <i>International Journal of Hygiene and Environmental Health</i> , 2012, 215, 238-241.	4.3	9
76	Developmental toxicity testing of unsubstituted and methylated 4- and 5-ring polycyclic aromatic hydrocarbons using the zebrafish embryotoxicity test. <i>Toxicology in Vitro</i> , 2022, 80, 105312.	2.4	9
77	Hepatic and pulmonary glutathione conjugation of 1,2:3,4-diepoxybutane in human, rat, and mouse in vitro. <i>Toxicology</i> , 1996, 113, 297-299.	4.2	8
78	Metabolic inactivation of 2-oxiranylmethyl 2-ethyl-2,5-dimethylhexanoate (C10GE) in skin, lung and liver of human, rat and mouse. <i>Xenobiotica</i> , 1999, 29, 987-1006.	1.1	8
79	Guidance on the selection of cohorts for the extended one-generation reproduction toxicity study (OECD test guideline 443). <i>Regulatory Toxicology and Pharmacology</i> , 2016, 80, 32-40.	2.7	8
80	Toxicological and ecotoxicological properties of gas-to-liquid (GTL) products. 2. <i>Ecotoxicology. Critical Reviews in Toxicology</i> , 2018, 48, 273-296.	3.9	8
81	Derivation of an occupational exposure limit for benzene using epidemiological study quality assessment tools. <i>Toxicology Letters</i> , 2020, 334, 117-144.	0.8	8
82	Prenatal developmental toxicity testing of petroleum substances using the zebrafish embryotoxicity test. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 245-260.	1.5	8
83	The effect of alkyl substitution on the oxidative metabolism and mutagenicity of phenanthrene. <i>Archives of Toxicology</i> , 2022, 96, 1109-1131.	4.2	8
84	Development of a competitive immunoassay for the determination of N-(2-hydroxyethyl)valine adducts in human haemoglobin and its application in biological monitoring. <i>Biomarkers</i> , 2004, 9, 407-417.	1.9	7
85	Determination of Exposure to Bitumen and Fume from Bitumen in the Oil Industry Through Determination of Urinary 1-Hydroxypyrene. <i>Journal of Occupational and Environmental Hygiene</i> , 2007, 4, 111-117.	1.0	7
86	Guidance on classification for reproductive toxicity under the globally harmonized system of classification and labelling of chemicals (GHS). <i>Critical Reviews in Toxicology</i> , 2013, 43, 850-891.	3.9	7
87	Biological monitoring to assess dermal exposure to ethylene oxide vapours during an incidental release. <i>Toxicology Letters</i> , 2014, 231, 387-390.	0.8	7
88	Risk assessment of workers exposed to crystalline silica aerosols. <i>Human and Ecological Risk Assessment (HERA)</i> , 2016, 22, 1678-1686.	3.4	7
89	Non-parametric estimation of low-concentration benzene metabolism. <i>Chemico-Biological Interactions</i> , 2017, 278, 242-255.	4.0	7
90	Predicting the in vivo developmental toxicity of benzo[a]pyrene (BaP) in rats by an in vitro "in silico" approach. <i>Archives of Toxicology</i> , 2021, 95, 3323-3340.	4.2	7

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91	Synthesis of [¹⁴ C]-labelled glycidyl and glycerol ethers of aliphatic and aromatic alcohols. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2000, 43, 147-167.	1.0	5
92	Biomonitoring as a tool in the human health risk characterization of dermal exposure. <i>Human and Experimental Toxicology</i> , 2008, 27, 297-305.	2.2	5
93	The influence of alkyl substitution on the in vitro metabolism and mutagenicity of benzo[a]pyrene. <i>Chemico-Biological Interactions</i> , 2022, 363, 110007.	4.0	5
94	Ceramic Fibers and Other Respiratory Hazards During the Renewal of the Refractory Lining in a Large Industrial Furnace. <i>Journal of Occupational and Environmental Hygiene</i> , 1994, 9, 32-35.	0.4	4
95	Reproductive and developmental toxicity assessment of gas-to-liquid diesel and base oil. <i>Reproductive Toxicology</i> , 2015, 56, 30.	2.9	4
96	The low-dose benzene debate needs a sharp blade. <i>Chemico-Biological Interactions</i> , 2017, 278, 239-241.	4.0	4
97	Cisplatin Nephrotoxicity and Platinum-Metallothioneins: Uptake and Toxicity in Proximal Tubular Cells from Rat Kidney. <i>Contributions To Nephrology</i> , 1990, 83, 208-212.	1.1	4
98	A consistent and transparent approach for calculation of Derived No-Effect Levels (DNELs) for petroleum substances. <i>Regulatory Toxicology and Pharmacology</i> , 2012, 62, 85-98.	2.7	3
99	Prenatal developmental toxicity studies on fumes from oxidised asphalt (OA) in the rat. <i>Reproductive Toxicology</i> , 2021, 102, 67-79.	2.9	3
100	Developmental toxicity testing of the fume condensate extracts of bitumen and oxidized asphalt in a series of in vitro alternative assays. <i>Toxicology in Vitro</i> , 2021, 75, 105195.	2.4	3
101	Skin irritation by kerosine. <i>Toxicology Letters</i> , 2006, 164, S94.	0.8	2
102	Getting under the skin. <i>Human and Experimental Toxicology</i> , 2008, 27, 267-268.	2.2	2
103	Interpretation of Human Biological Monitoring Data Using a Newly Developed Generic Physiological-Based Toxicokinetic Model. , 2013, , 137-150.		2
104	Prenatal developmental toxicity studies on fumes from bitumen in the rat. <i>Reproductive Toxicology</i> , 2021, 99, 15-26.	2.9	2
105	Molecular Dosimetry of 2,4-Difluoroaniline in Humans and Rats by Determination of Hemoglobin Adducts. <i>Environmental Health Perspectives</i> , 1994, 102, 27.	6.0	1
106	Assessment of Asphalt Workers' Dermal Exposure. <i>Annals of Occupational Hygiene</i> , 2005, 49, 93; author reply 93-4.	1.9	0
107	Biomonitoring as a tool in the human health risk assessment of dermal exposure. <i>Toxicology Letters</i> , 2006, 164, S323.	0.8	0