# 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 g-index |
| 113 all docs | 113 docs citations | 113 times ranked | 2256 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Developmental toxicity testing of unsubstituted and methylated 4- and 5-ring polycyclic aromatic hydrocarbons using the zebrafish embryotoxicity test. Toxicology in Vitro, 2022, 80, 105312. | 2.4 | 9 |
| 2 | The effect of alkyl substitution on the oxidative metabolism and mutagenicity of phenanthrene. Archives of Toxicology, 2022, 96, 1109-1131. | 4.2 | 8 |
| 3 | The influence of alkyl substitution on the in vitro metabolism and mutagenicity of benzo[a]pyrene. Chemico-Biological Interactions, 2022, 363, 110007. | 4.0 | 5 |
| 4 | Prenatal developmental toxicity studies on fumes from bitumen in the rat. Reproductive Toxicology, 2021, 99, 15-26. | 2.9 | 2 |
| 5 | Prenatal developmental toxicity studies on fumes from oxidised asphalt (OA) in the rat. Reproductive Toxicology, 2021, 102, 67-79. | 2.9 | 3 |
| 6 | Predicting the in vivo developmental toxicity of benzo[a]pyrene (BaP) in rats by an in vitroâ€“in silico approach. Archives of Toxicology, 2021, 95, 3323-3340. | 4.2 | 7 |
| 7 | Developmental toxicity testing of the fume condensate extracts of bitumen and oxidized asphalt in a series of in vitro alternative assays. Toxicology in Vitro, 2021, 75, 105195. | 2.4 | 3 |
| 8 | Grouping of UVCB substances with new approach methodologies (NAMs) data. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 123-137. | 1.5 | 13 |
| 9 | The role of metabolism in the developmental toxicity of polycyclic aromatic hydrocarbonâ€containing extracts of petroleum substances. Journal of Applied Toxicology, 2020, 40, 330-341. | 2.8 | 11 |
| 10 | In vitro metabolism of naphthalene and its alkylated congeners by human and rat liver microsomes via alkyl side chain or aromatic oxidation. Chemico-Biological Interactions, 2020, 315, 108905. | 4.0 | 25 |
| 11 | Derivation of an occupational exposure limit for benzene using epidemiological study quality assessment tools. Toxicology Letters, 2020, 334, 117-144. | 0.8 | 8 |
| 12 | 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). Toxicology Letters, 2019, 315, 64-76. | 0.8 | 23 |
| 13 | 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. Regulatory Toxicology and Pharmacology, 2019, 106, 316-333. | 2.7 | 25 |
| 14 | Prenatal developmental toxicity testing of petroleum substances using the zebrafish embryotoxicity test. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 245-260. | 1.5 | 8 |
| 15 | Toxicological and ecotoxicological properties of gas-to-liquid (GTL) products. 2. Ecotoxicology. Critical Reviews in Toxicology, 2018, 48, 273-296. | 3.9 | 8 |
| 16 | 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. Toxicological Sciences, 2018, 164, 576-591. | 3.1 | 26 |
| 17 | Grouping of Petroleum Substances as Example UVCBs by Ion Mobility-Mass Spectrometry to Enable Chemical Composition-Based Read-Across. Environmental Science & Technology, 2017, 51, 7197-7207. | 10.0 | 23 |
| 18 | Non-parametric estimation of low-concentration benzene metabolism. Chemico-Biological Interactions, 2017, 278, 242-255. | 4.0 | 7 |

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|---|---|---|---|
| 19 | 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. Toxicology in Vitro, 2017, 44, 303-312. | 2.4 | 30 |
| 20 | Heavy hydrocarbon fate and transport in the environment. Quarterly Journal of Engineering Geology and Hydrogeology, 2017, 50, 333-346. | 1.4 | 44 |
| 21 | The low-dose benzene debate needs a sharp blade. Chemico-Biological Interactions, 2017, 278, 239-241. | 4.0 | 4 |
| 22 | Toxicological and ecotoxicological properties of gas-to-liquid (GTL) products. 1. Mammalian toxicology. Critical Reviews in Toxicology, 2017, 47, 121-144. | 3.9 | 22 |
| 23 | Assessment of petroleum streams for thyroid toxicity. Toxicology Letters, 2016, 254, 52-62. | 0.8 | 14 |
| 24 | Risk assessment of workers exposed to crystalline silica aerosols. Human and Ecological Risk Assessment (HERA), 2016, 22, 1678-1686. | 3.4 | 7 |
| 25 | 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 |
| 26 | Guidance on the selection of cohorts for the extended one-generation reproduction toxicity study (OECD test guideline 443). Regulatory Toxicology and Pharmacology, 2016, 80, 32-40. | 2.7 | 8 |
| 27 | Reproductive and developmental toxicity assessment of gas-to-liquid diesel and base oil. Reproductive Toxicology, 2015, 56, 30. | 2.9 | 4 |
| 28 | Building scientific confidence in the development and evaluation of read-across. Regulatory Toxicology and Pharmacology, 2015, 72, 117-133. | 2.7 | 56 |
| 29 | Dermal uptake of petroleum substances. Toxicology Letters, 2015, 235, 123-139. | 0.8 | 20 |
| 30 | Toxicogenomics in vitro as an alternative tool for safety evaluation of petroleum substances and PAHs with regard to prenatal developmental toxicity. Toxicology in Vitro, 2015, 29, 299-307. | 2.4 | 26 |
| 31 | An organizational approach for the assessment of DNA adduct data in risk assessment: case studies for aflatoxin B<sub>1</sub>, tamoxifen and vinyl chloride. Critical Reviews in Toxicology, 2014, 44, 348-391. | 3.9 | 26 |
| 32 | Biological monitoring to assess dermal exposure to ethylene oxide vapours during an incidental release. Toxicology Letters, 2014, 231, 387-390. | 0.8 | 7 |
| 33 | A systematic approach for evaluating and scoring human data. Regulatory Toxicology and Pharmacology, 2013, 66, 241-247. | 2.7 | 36 |
| 34 | Interpretation of Human Biological Monitoring Data Using a Newly Developed Generic Physiological-Based Toxicokinetic Model. , 2013, , 137-150. | | 2 |
| 35 | Guidance on classification for reproductive toxicity under the globally harmonized system of classification and labelling of chemicals (GHS). Critical Reviews in Toxicology, 2013, 43, 850-891. | 3.9 | 7 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Application of human biomonitoring (HBM) of chemical exposure in the characterisation of health risks under REACH. International Journal of Hygiene and Environmental Health, 2012, 215, 238-241. | 4.3 | 9 |
| 38 | A consistent and transparent approach for calculation of Derived No-Effect Levels (DNELs) for petroleum substances. Regulatory Toxicology and Pharmacology, 2012, 62, 85-98. | 2.7 | 3 |
| 39 | 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 |
| 40 | Human biomonitoring as a pragmatic tool to support health risk management of chemicals – Examples under the EU REACH programme. Regulatory Toxicology and Pharmacology, 2011, 59, 125-132. | 2.7 | 49 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | A proposed framework for the interpretation of biomonitoring data. Environmental Health, 2008, 7, S12. | 4.0 | 14 |
| 45 | Biomonitoring as a tool in the human health risk characterization of dermal exposure. Human and Experimental Toxicology, 2008, 27, 297-305. | 2.2 | 5 |
| 46 | Urinary biomarkers in the risk assessment of PAHs. Occupational and Environmental Medicine, 2008, 65, 221-222. | 2.8 | 20 |
| 47 | Getting under the skin. Human and Experimental Toxicology, 2008, 27, 267-268. | 2.2 | 2 |
| 48 | Determination of Exposure to Bitumen and Fume from Bitumen in the Oil Industry Through Determination of Urinary 1-Hydroxypyrene. Journal of Occupational and Environmental Hygiene, 2007, 4, 111-117. | 1.0 | 7 |
| 49 | Human biomonitoring activities – Programmes by industry. International Journal of Hygiene and Environmental Health, 2007, 210, 259-261. | 4.3 | 11 |
| 50 | Skin irritation by kerosine. Toxicology Letters, 2006, 164, S94. | 0.8 | 2 |
| 51 | Biomonitoring as a tool in the human health risk assessment of dermal exposure. Toxicology Letters, 2006, 164, S323. | 0.8 | 0 |
| 52 | Development of a competitive immunoassay for the determination of N-(2-hydroxypropyl)valine adducts in human haemoglobin and its application in biological monitoring. Biomarkers, 2005, 10, 127-137. | 1.9 | 9 |
| 53 | Assessment of Asphalt Workers' Dermal Exposure. Annals of Occupational Hygiene, 2005, 49, 93; author reply 93-4. | 1.9 | 0 |
| 54 | Development of a competitive immunoassay for the determination of N-(2-hydroxyethyl)valine adducts in human haemoglobin and its application in biological monitoring. Biomarkers, 2004, 9, 407-417. | 1.9 | 7 |

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| 55 | Comparison of the metabolism of ethylene glycol and glycolic acidin vitroby precision-cut tissue slices from female rat, rabbit and human liver. Xenobiotica, 2004, 34, 31-48. | 1.1 | 26 |
| 56 | DNA adducts in rats and mice following exposure to [4-14C]-1,2-epoxy-3-butene and to [2,3-14C]-1,3-butadiene. Chemico-Biological Interactions, 2004, 148, 69-92. | 4.0 | 17 |
| 57 | Comparative assessment of gastrointestinal irritant potency in man of tin(II) chloride and tin migrated from packaging. Food and Chemical Toxicology, 2003, 41, 1663-1670. | 3.6 | 47 |
| 58 | 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 |
| 59 | Biomarkers for assessing occupational exposures to 1,3-butadiene. Chemico-Biological Interactions, 2001, 135-136, 429-453. | 4.0 | 64 |
| 60 | 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. Chemico-Biological Interactions, 2001, 135-136, 687-693. | 4.0 | 12 |
| 61 | Urinary metabolites and haemoglobin adducts as biomarkers of exposure to 1,3-butadiene: a basis for 1,3-butadiene cancer risk assessment.. Chemico-Biological Interactions, 2001, 135-136, 695-701. | 4.0 | 31 |
| 62 | Synthesis of [14C]-labelled glycidyl and glycerol ethers of aliphatic and aromatic alcohols. Journal of Labelled Compounds and Radiopharmaceuticals, 2000, 43, 147-167. | 1.0 | 5 |
| 63 | Gas chromatography-electron capture determination of styrene-7,8-oxide enantiomers. Biomedical Applications, 2000, 749, 265-274. | 1.7 | 9 |
| 64 | 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. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 447, 27-48. | 1.0 | 45 |
| 65 | 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 |
| 66 | Metabolic inactivation of five glycidyl ethers in lung and liver of humans, rats and micein vitro. Xenobiotica, 2000, 30, 485-502. | 1.1 | 16 |
| 67 | 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 |
| 68 | 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 |
| 69 | Dermal penetration and metabolism of five glycidyl ethers in human, rat and mouse skin. Xenobiotica, 2000, 30, 469-483. | 1.1 | 35 |
| 70 | Quantification of DNA Adducts Formed in Liver, Lungs, and Isolated Lung Cells of Rats and Mice Exposed to 14C-Styrene by Nose-Only Inhalation. Toxicological Sciences, 2000, 57, 203-216. | 3.1 | 35 |
| 71 | Biomarkers of Exposure to 1,3-Butadiene as a Basis for Cancer Risk Assessment. Toxicological Sciences, 2000, 56, 189-202. | 3.1 | 80 |
| 72 | Quantitative and qualitative differences in the metabolism of 14C-1,3- butadiene in rats and mice: relevance to cancer susceptibility. Toxicological Sciences, 1999, 49, 186-201. | 3.1 | 38 |

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|---|---|---|---|
| 73 | 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 |
| 74 | Metabolic inactivation of 2-oxiranylmethyl 2-ethyl2,5-dimethylhexanoate (C10GE) in skin, lung and liver of human, rat and mouse. Xenobiotica, 1999, 29, 987-1006. | 1.1 | 8 |
| 75 | Identification of Novel Metabolites of Butadiene Monoepoxide in Rats and Mice. Chemical Research in Toxicology, 1998, 11, 1543-1555. | 3.3 | 25 |
| 76 | 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. Occupational and Environmental Medicine, 1998, 55, 795-804. | 2.8 | 43 |
| 77 | 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. Occupational and Environmental Medicine, 1998, 55, 805-811. | 2.8 | 24 |
| 78 | Allylmercapturic acid as urinary biomarker of human exposure to allyl chloride.. Occupational and Environmental Medicine, 1997, 54, 653-661. | 2.8 | 26 |
| 79 | 3-Chloro-2-hydroxypropylmercapturic acid and Î±-chlorohydrin as biomarkers of occupational exposure to epichlorohydrin. Environmental Toxicology and Pharmacology, 1997, 3, 175-185. | 4.0 | 15 |
| 80 | Disposition of butadiene epoxides in Sprague-Dawley rats. Chemico-Biological Interactions, 1997, 104, 103-115. | 4.0 | 12 |
| 81 | Glutathione Conjugation of 1,2:3,4-Diepoxybutane in Human Liver and Rat and Mouse Liver and Lungin Vitro. Toxicology and Applied Pharmacology, 1996, 136, 307-316. | 2.8 | 73 |
| 82 | The Role of Hydrolysis in the Detoxification of 1,2:3,4-Diepoxybutane by Human, Rat, and Mouse Liver and Lungin Vitro. Toxicology and Applied Pharmacology, 1996, 141, 617-627. | 2.8 | 78 |
| 83 | 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 |
| 84 | 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 |
| 85 | Hepatic and pulmonary glutathione conjugation of 1,2:3,4-diepoxybutane in human, rat, and mouse in vitro. Toxicology, 1996, 113, 297-299. | 4.2 | 8 |
| 86 | Effects of Exposure to Elemental Mercury on the Nervous System and the Kidneys of Workers Producing Natural Gas. Archives of Environmental Health, 1996, 51, 108-115. | 0.4 | 20 |
| 87 | 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 |
| 88 | 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 |
| 89 | Urinary 1-hydroxypyrene as biomarker of exposure to polycyclic aromatic hydrocarbons in workers in petrochemical industries: baseline values and dermal uptake. Science of the Total Environment, 1995, 163, 203-209. | 8.0 | 48 |
| 90 | Ceramic Fibers and Other Respiratory Hazards During the Renewal of the Refractory Lining in a Large Industrial Furnace. Journal of Occupational and Environmental Hygiene, 1994, 9, 32-35. | 0.4 | 4 |

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| 91 | 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 |
| 92 | 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 |
| 93 | Molecular Dosimetry of 2,4-Difluoroaniline in Humans and Rats by Determination of Hemoglobin Adducts. Environmental Health Perspectives, 1994, 102, 27. | 6.0 | 1 |
| 94 | Application of the urinary S-phenylmercapturic acid test as a biomarker for low levels of exposure to benzene in industry.. Occupational and Environmental Medicine, 1993, 50, 460-469. | 2.8 | 32 |
| 95 | 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 |
| 96 | Nephrotoxicity of halogenated alkenyl cysteine-S-conjugates. Life Sciences, 1991, 49, 1769-1776. | 4.3 | 10 |
| 97 | 4-methylthiobenzoic acid reduces cisplatin nephrotoxicity in rats without compromising anti-tumour activity. Biochemical Pharmacology, 1991, 41, 1997-2003. | 4.4 | 29 |
| 98 | 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 |
| 99 | Regeneration experiments of the platinated enzyme fumarase, using sodium diethyldithiocarbamate, thiourea, and sodium thiosulfate. Journal of Inorganic Biochemistry, 1991, 41, 17-24. | 3.5 | 20 |
| 100 | Mutagenicity and cytotoxicity of two regioisomeric mercapturic acids and cysteine S-conjugates of trichloroethylene. Archives of Toxicology, 1991, 65, 373-380. | 4.2 | 49 |
| 101 | Renal proximal tubular cells in suspension or in primary culture as in vitro models to study nephrotoxicity. Chemico-Biological Interactions, 1990, 76, 251-291. | 4.0 | 48 |
| 102 | Primary culture of proximal tubular cells from normal rat kidney as an in vitro model to study mechanisms of nephrotoxicity. Biochemical Pharmacology, 1990, 39, 1335-1345. | 4.4 | 35 |
| 103 | Cisplatin Nephrotoxicity and Platinum-Metallothioneins: Uptake and Toxicity in Proximal Tubular Cells from Rat Kidney. Contributions To Nephrology, 1990, 83, 208-212. | 1.1 | 4 |
| 104 | Isolated proximal tubular cells from rat kidney as an in vitro model for studies on nephrotoxicity. Toxicology and Applied Pharmacology, 1989, 101, 135-143. | 2.8 | 41 |
| 105 | Isolated proximal tubular cells from rat kidney as an in vitro model for studies on nephrotoxicity. Toxicology and Applied Pharmacology, 1989, 101, 144-157. | 2.8 | 24 |
| 106 | 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 |
| 107 | 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. Archives of Toxicology, 1986, 59, 235-241. | 4.2 | 30 |