

Albrecht Paschke

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,151
citations

94433

37
h-index

128289

60
g-index

103
all docs

103
docs citations

103
times ranked

4316
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Detection of genotoxic effects of heavy metal contaminated soils with plant bioassays. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1998, 420, 37-48. | 1.7 | 203 |
| 2 | Airâ€“Water Partitioning of ²²² Rn and its Dependence on Water Temperature and Salinity. <i>Environmental Science & Technology</i> , 2012, 46, 3905-3911. | 10.0 | 170 |
| 3 | Application of accelerated solvent extraction followed by gas chromatography, high-performance liquid chromatography and gas chromatographyâ€“mass spectrometry for the determination of polycyclic aromatic hydrocarbons, chlorinated pesticides and polychlorinated dibenzo-p-dioxins and dibenzofurans in solid wastes. <i>Journal of Chromatography A</i> , 1997, 774, 203-211. | 3.7 | 163 |
| 4 | Pesticides from wastewater treatment plant effluents affect invertebrate communities. <i>Science of the Total Environment</i> , 2017, 599-600, 387-399. | 8.0 | 131 |
| 5 | Field Performance of Seven Passive Sampling Devices for Monitoring of Hydrophobic Substances. <i>Environmental Science & Technology</i> , 2009, 43, 5383-5390. | 10.0 | 129 |
| 6 | Long-term stream invertebrate community alterations induced by the insecticide thiacloprid: Effect concentrations and recovery dynamics. <i>Science of the Total Environment</i> , 2008, 405, 96-108. | 8.0 | 120 |
| 7 | Pesticides are the dominant stressors for vulnerable insects in lowland streams. <i>Water Research</i> , 2021, 201, 117262. | 11.3 | 118 |
| 8 | Effects of heavy metal contamination of soils on micronucleus induction in <i>Tradescantia</i> and on microbial enzyme activities: a comparative investigation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2002, 515, 111-124. | 1.7 | 103 |
| 9 | Kinetic Glutathione Chemoassay To Quantify Thiol Reactivity of Organic Electrophilesâ€“Application to Î±,Î²-Unsaturated Ketones, Acrylates, and Propiolates. <i>Chemical Research in Toxicology</i> , 2009, 22, 742-750. | 3.3 | 100 |
| 10 | Fish Embryo Toxicity Test: Identification of Compounds with Weak Toxicity and Analysis of Behavioral Effects To Improve Prediction of Acute Toxicity for Neurotoxic Compounds. <i>Environmental Science & Technology</i> , 2015, 49, 7002-7011. | 10.0 | 99 |
| 11 | Membrane-Enclosed Sorptive Coating. An Integrative Passive Sampler for Monitoring Organic Contaminants in Water. <i>Analytical Chemistry</i> , 2001, 73, 5191-5200. | 6.5 | 96 |
| 12 | Solid phase microextraction of volatile organic compounds using carboxen-polydimethylsiloxane fibers. <i>Chromatographia</i> , 1997, 46, 419-424. | 1.3 | 93 |
| 13 | Selective determination of estrogenic compounds in water by microextraction by packed sorbents and a molecularly imprinted polymer coupled with large volume injection-in-port-derivatization gas chromatographyâ€“mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 703, 41-51. | 5.4 | 90 |
| 14 | Solid-phase microextraction fibreâ€“water distribution constants of more hydrophobic organic compounds and their correlations with octanolâ€“water partition coefficients. <i>Journal of Chromatography A</i> , 2003, 999, 35-42. | 3.7 | 79 |
| 15 | Towards a renewed research agenda in ecotoxicology. <i>Environmental Pollution</i> , 2012, 160, 201-206. | 7.5 | 78 |
| 16 | Determination of polycyclic aromatic hydrocarbons in waste water by off-line coupling of solid-phase microextraction with column liquid chromatography. <i>Journal of Chromatography A</i> , 2000, 897, 153-159. | 3.7 | 76 |
| 17 | Calibration of the ChemcatcherÂ® passive sampler for monitoring selected polar and semi-polar pesticides in surface water. <i>Environmental Pollution</i> , 2008, 155, 52-60. | 7.5 | 75 |
| 18 | Polydimethylsiloxane rod extraction, a novel technique for the determination of organic micropollutants in water samples by thermal desorptionâ€“capillary gas chromatographyâ€“mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1025, 17-26. | 3.7 | 74 |

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|----|--|------|-----------|
| 19 | Performance of the Chemcatcher® passive sampler when used to monitor 10 polar and semi-polar pesticides in 16 Central European streams, and comparison with two other sampling methods. <i>Water Research</i> , 2008, 42, 2707-2717. | 11.3 | 67 |
| 20 | How to deal with lipophilic and volatile organic substances in microtiter plate assays. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1676-1682. | 4.3 | 64 |
| 21 | Application of a polysiloxane-based extraction method combined with column liquid chromatography to determine polycyclic aromatic hydrocarbons in environmental samples. <i>Analytica Chimica Acta</i> , 2004, 504, 307-312. | 5.4 | 61 |
| 22 | Partitioning-Based Dosing: An Approach To Include Bioavailability in the Effect-Directed Analysis of Contaminated Sediment Samples. <i>Environmental Science & Technology</i> , 2009, 43, 3891-3896. | 10.0 | 58 |
| 23 | Thiol Reactivity and Its Impact on the Ciliate Toxicity of α,β -Unsaturated Aldehydes, Ketones, and Esters. <i>Chemical Research in Toxicology</i> , 2010, 23, 1905-1912. | 3.3 | 58 |
| 24 | Epoxide and Thiirane Toxicity In vitro with the Ciliates <i>Tetrahymena pyriformis</i> : Structural Alerts Indicating Excess Toxicity. <i>Environmental Science & Technology</i> , 2011, 45, 5812-5819. | 10.0 | 57 |
| 25 | Silicone rod and silicone tube sorptive extraction. <i>Journal of Chromatography A</i> , 2010, 1217, 2589-2598. | 3.7 | 56 |
| 26 | Calibration and field performance of membrane-enclosed sorptive coating for integrative passive sampling of persistent organic pollutants in water. <i>Environmental Pollution</i> , 2006, 144, 296-307. | 7.5 | 54 |
| 27 | Radon as a naturally occurring tracer for the assessment of residual NAPL contamination of aquifers. <i>Environmental Pollution</i> , 2007, 145, 920-927. | 7.5 | 54 |
| 28 | Use of semipermeable membrane devices (SPMDs). <i>Environmental Science and Pollution Research</i> , 2001, 8, 27-34. | 5.3 | 51 |
| 29 | Octanol/Water Partition Coefficient of Selected Herbicides: Determination Using Shake-Flask Method and Reversed-Phase High-Performance Liquid Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1639-1642. | 1.9 | 51 |
| 30 | Aquatic passive sampling of a short-term thiacloprid pulse with the Chemcatcher: Impact of biofouling and use of a diffusion-limiting membrane on the sampling rate. <i>Journal of Chromatography A</i> , 2008, 1203, 1-6. | 3.7 | 51 |
| 31 | Pesticide impact on aquatic invertebrates identified with Chemcatcher® passive samplers and the SPEARpesticides index. <i>Science of the Total Environment</i> , 2015, 537, 69-80. | 8.0 | 51 |
| 32 | Distribution of polychlorinated biphenyls, phthalic acid esters, polycyclic aromatic hydrocarbons and organochlorine substances in the Moscow River, Russia. <i>Environmental Pollution</i> , 2016, 210, 409-418. | 7.5 | 51 |
| 33 | Forested headwaters mitigate pesticide effects on macroinvertebrate communities in streams: Mechanisms and quantification. <i>Science of the Total Environment</i> , 2015, 524-525, 115-123. | 8.0 | 50 |
| 34 | Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment. <i>Environmental Sciences Europe</i> , 2015, 27, 5. | 5.5 | 48 |
| 35 | Rapid semi-continuous calibration and field test of membrane-enclosed silicone collector as passive water sampler. <i>Journal of Chromatography A</i> , 2006, 1124, 187-195. | 3.7 | 47 |
| 36 | Characterization of sediments in an abandoned mining area; a case study of Mansfeld region, Germany. <i>Environmental Geology</i> , 2004, 45, 818-833. | 1.2 | 40 |

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|----|--|------|-----------|
| 37 | Calibration and field test of the Polar Organic Chemical Integrative Samplers for the determination of 15 endocrine disrupting compounds in wastewater and river water with special focus on performance reference compounds (PRC). <i>Water Research</i> , 2013, 47, 2851-2862. | 11.3 | 40 |
| 38 | Gas chromatographic determination of perfluorocarboxylic acids in aqueous samples – A tutorial review. <i>Analytica Chimica Acta</i> , 2017, 949, 8-22. | 5.4 | 38 |
| 39 | INFLUENCE OF FOOD LIMITATION ON THE EFFECTS OF FENVALERATE PULSE EXPOSURE ON THE LIFE HISTORY AND POPULATION GROWTH RATE OF DAPHNIA MAGNA. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2254. | 4.3 | 37 |
| 40 | Determination of radon partition coefficients between water and organic liquids and their utilization for the assessment of subsurface NAPL contamination. <i>Science of the Total Environment</i> , 2007, 376, 306-316. | 8.0 | 37 |
| 41 | In situ determination of radon in surface water bodies by means of a hydrophobic membrane tubing. <i>Radiation Measurements</i> , 2008, 43, 111-120. | 1.4 | 37 |
| 42 | Kinetics of the arsenite oxidation in seepage water from a tin mill tailings pond. <i>Talanta</i> , 2000, 51, 1087-1095. | 5.5 | 36 |
| 43 | Polyaromatic hydrocarbon concentrations and patterns in sediments and surface water of the Mansfeld region, Saxony-Anhalt, Germany. <i>Journal of Environmental Monitoring</i> , 2001, 3, 602-609. | 2.1 | 36 |
| 44 | A novel in vitro system for the determination of bioconcentration factors and the internal dose in zebrafish (<i>Danio rerio</i>) eggs. <i>Chemosphere</i> , 2009, 77, 928-933. | 8.2 | 34 |
| 45 | Acute and Chronic Toxicity toward the Bacteria <i>Vibrio fischeri</i> of Organic Narcotics and Epoxides: Structural Alerts for Epoxide Excess Toxicity. <i>Chemical Research in Toxicology</i> , 2010, 23, 1936-1946. | 3.3 | 34 |
| 46 | Diffusion Coefficients of Substituted Benzenes at High Dilution in Water. <i>Journal of Chemical & Engineering Data</i> , 1996, 41, 33-36. | 1.9 | 33 |
| 47 | Water solubility and octanol/water-partitioning of hydrophobic chlorinated organic substances determined by using SPME/GC. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 52-57. | 1.5 | 33 |
| 48 | Comparative application of solid-phase microextraction fibre assemblies and semi-permeable membrane devices as passive air samplers for semi-volatile chlorinated organic compounds. A case study on the landfill – Grube Antonie – in Bitterfeld, Germany. <i>Environmental Pollution</i> , 2006, 144, 414-422. | 7.5 | 33 |
| 49 | Silicone rod extraction of pharmaceuticals from water. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1417-1421. | 3.7 | 28 |
| 50 | Diffusion-based calibration for solid-phase microextraction of benzene, toluene, ethylbenzene, p-xylene and chlorobenzenes from aqueous samples. <i>Journal of Chromatography A</i> , 2004, 1025, 11-16. | 3.7 | 27 |
| 51 | Kinetics of the Water/Air Phase Transition of Radon and Its Implication on Detection of Radon-in-Water Concentrations: Practical Assessment of Different On-Site Radon Extraction Methods. <i>Environmental Science & Technology</i> , 2012, 46, 8945-8951. | 10.0 | 27 |
| 52 | Structural Alerts for the Excess Toxicity of Acrylates, Methacrylates, and Propiolates Derived from Their Short-Term and Long-Term Bacterial Toxicity. <i>Chemical Research in Toxicology</i> , 2012, 25, 170-180. | 3.3 | 27 |
| 53 | Evaluation of polar organic chemical integrative and hollow fibre samplers for the determination of a wide variety of organic polar compounds in seawater. <i>Talanta</i> , 2018, 185, 469-476. | 5.5 | 26 |
| 54 | Consideration of the physicochemical properties of sample matrices – an important step in sampling and sample preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 78-89. | 11.4 | 25 |

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|----|---|------|-----------|
| 55 | Adsorption of perfluorocarboxylic acids at the silica surface. <i>Chemical Communications</i> , 2017, 53, 589-592. | 4.1 | 24 |
| 56 | Application of different RP-HPLC methods for the determination of the octanol/water partition coefficient of selected tetrachlorobenzyltoluenes. <i>Chemosphere</i> , 2001, 45, 721-728. | 8.2 | 23 |
| 57 | Chemoassay Screening of DNA-Reactive Mutagenicity with 4-(4-Nitrobenzyl)pyridine Application to Epoxides, Oxetanes, and Sulfur Heterocycles. <i>Chemical Research in Toxicology</i> , 2012, 25, 2092-2102. | 3.3 | 23 |
| 58 | Applicability of polydimethylsiloxane (PDMS) and polyethersulfone (PES) as passive samplers of more hydrophobic organic compounds in intertidal estuarine environments. <i>Science of the Total Environment</i> , 2017, 578, 392-398. | 8.0 | 22 |
| 59 | Urease inhibition: a tool for toxicity identification in sediment elutriates. <i>Chemosphere</i> , 2000, 40, 829-834. | 8.2 | 21 |
| 60 | Short-term exposure testing of six different passive samplers for the monitoring of hydrophobic contaminants in water. <i>Journal of Environmental Monitoring</i> , 2010, 12, 696. | 2.1 | 20 |
| 61 | Solubility and partitioning studies with polycyclic aromatic hydrocarbons using an optimized SPME procedure. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 363, 426-428. | 1.5 | 19 |
| 62 | Efficiency of direct solid-phase microextraction from water-comparison of different fibre types including a new C8-coating. <i>Chromatographia</i> , 1999, 49, 686-690. | 1.3 | 19 |
| 63 | Tetraphasic polar organic chemical integrative sampler for the determination of a wide polarity range organic pollutants in water. The use of performance reference compounds and in-situ calibration. <i>Talanta</i> , 2017, 164, 314-322. | 5.5 | 19 |
| 64 | Perfluoroalkyl acids in aqueous samples from Germany and Kenya. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11031-11043. | 5.3 | 19 |
| 65 | Ecotoxicological Profiling of Transect River Elbe Sediments. <i>Clean - Soil, Air, Water</i> , 2005, 33, 555-569. | 0.6 | 18 |
| 66 | Calibration and field application of the Atlantic HLB Disk containing Chemcatcher® passive sampler Quantitative monitoring of herbicides, other pesticides, and transformation products in German streams. <i>Journal of Hazardous Materials</i> , 2021, 410, 124538. | 12.4 | 18 |
| 67 | Determination of Binary Diffusion Coefficients in Liquid Nonelectrolyte Mixtures using the Taylor Dispersion Technique. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992, 96, 750-753. | 0.9 | 17 |
| 68 | Diffusion Coefficients of Substituted Benzenes and Alcohols at High Dilution in Octan-1-ol. <i>Journal of Chemical & Engineering Data</i> , 1998, 43, 413-416. | 1.9 | 17 |
| 69 | Assessment of the genotoxicity of mine-dump material using the Tradescantia-stamen hair (Trad-SHM) and the Tradescantia-micronucleus (Trad-MCN) bioassays. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 426, 173-181. | 1.0 | 17 |
| 70 | Slow-stirring method for determining the octanol/water partition coefficient (K_{ow}) for highly hydrophobic chemicals: Performance evaluation in a ring test. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1051-1057. | 4.3 | 17 |
| 71 | Determination of lindane leachability in soil-biosolid systems and its bioavailability in wheat plants. <i>Chemosphere</i> , 2011, 84, 397-402. | 8.2 | 17 |
| 72 | Comparison of heavy metal content in two sludge drying reed beds of different age. <i>Ecological Engineering</i> , 2015, 74, 48-55. | 3.6 | 17 |

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|----|---|------|-----------|
| 73 | Passive sampling for spatial and temporal monitoring of organic pollutants in surface water of a rural-urban river in Kenya. <i>Science of the Total Environment</i> , 2017, 601-602, 453-460. | 8.0 | 17 |
| 74 | Performance of semipermeable membrane devices for sampling of organic contaminants in groundwater. <i>Journal of Environmental Monitoring</i> , 2005, 7, 500. | 2.1 | 16 |
| 75 | Whole effluent assessment of industrial wastewater for determination of bat compliance. <i>Environmental Science and Pollution Research</i> , 2010, 17, 856-865. | 5.3 | 16 |
| 76 | Pollution-Induced Community Tolerance To Diagnose Hazardous Chemicals in Multiple Contaminated Aquatic Systems. <i>Environmental Science & Technology</i> , 2015, 49, 10048-10056. | 10.0 | 16 |
| 77 | Diffusion coefficients of polar organic compounds in agarose hydrogel and water and their use for estimating uptake in passive samplers. <i>Chemosphere</i> , 2020, 249, 126183. | 8.2 | 16 |
| 78 | Whole effluent assessment of industrial wastewater for determination of BAT compliance. Part 2: metal surface treatment industry. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1149-1157. | 5.3 | 14 |
| 79 | Membrane Extraction of Volatile Organic Compounds in Combination with Mobile Gas Chromatographic Analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 1999, 74, 107-121. | 3.3 | 13 |
| 80 | Activity coefficients and partial molar excess enthalpies at infinite dilution for four esters in water. <i>Fluid Phase Equilibria</i> , 2010, 295, 194-200. | 2.5 | 13 |
| 81 | Uptake calibration of polymer-based passive samplers for monitoring priority and emerging organic non-polar pollutants in WWTP effluents. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3165-3175. | 3.7 | 12 |
| 82 | Diffusions-, ViskositÄts- und Dichte-Messungen im neuen Testsystem der FlÄ¼ssigextraktion MIPK/BuAc/H2O. <i>Chemie-Ingenieur-Technik</i> , 1993, 65, 949-951. | 0.8 | 11 |
| 83 | Radon, CO2 and CH4 as environmental tracers in groundwater/surface water interaction studies âˆ“ comparative theoretical evaluation of the gas specific water/air phase transfer kinetics. <i>European Physical Journal: Special Topics</i> , 2015, 224, 709-715. | 2.6 | 11 |
| 84 | Diffusion Coefficients, Viscosities and Densities in the Binary Subsystems of Methyl isopropyl ketoneâ€”Butyl acetateâ€”Water. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1993, 97, 1119-1124. | 0.9 | 10 |
| 85 | Indirect determination of low vapour pressures using solid-phase microextractionâ€”application to tetrachlorobenzenes and tetrachlorobenzyltoluenes. <i>Journal of Chromatography A</i> , 2005, 1072, 93-97. | 3.7 | 9 |
| 86 | Results of a â€œWhole Effluent Assessmentâ€”study from different industrial sectors in Germany according to OSPAR's WEA strategy. <i>Journal of Environmental Monitoring</i> , 2009, 11, 359-369. | 2.1 | 9 |
| 87 | Calibration of ChemcatcherÂ® passive sampler for selected highly hydrophobic organic substances under fresh and sea water conditions. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 218-226. | 2.4 | 9 |
| 88 | Development and field test of a mobile continuous flow system utilizing Chemcatcher for monitoring of rare earth elements in marine environments. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 146-153. | 2.4 | 9 |
| 89 | Complex chemical cocktail, containing insecticides diazinon and permethrin, drives acute toxicity to crustaceans in mountain lakes. <i>Science of the Total Environment</i> , 2022, 828, 154456. | 8.0 | 9 |
| 90 | Determination of Temperature-Dependent Henryâ€™s Law Constant of Four Oxygenated Solute in Water Using Headspace Solid-Phase Microextraction Technique. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2873-2877. | 1.9 | 8 |

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|----|--|-----|-----------|
| 91 | Polyethersulfone as suitable passive sampler for waterborne hydrophobic organic compounds – Laboratory calibration and field test in the Sosiani river, Kenya. <i>Science of the Total Environment</i> , 2020, 699, 134056. | 8.0 | 8 |
| 92 | Laboratory calibration and field testing of the Chemcatcher-Metal for trace levels of rare earth elements in estuarine waters. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16051-16059. | 5.3 | 7 |
| 93 | Sorption of chlorimuron-ethyl on montmorillonite clays: effects of exchangeable cations, pH, and ionic strength. <i>Environmental Science and Pollution Research</i> , 2014, 21, 11587-11597. | 5.3 | 6 |
| 94 | Simultaneous mass transfer of heptane and toluene into a selective solvent. <i>Chemical Engineering and Processing: Process Intensification</i> , 1993, 32, 201-207. | 3.6 | 3 |
| 95 | Chapter 10 Membrane-enclosed sorptive coating for the monitoring of organic compounds in water. <i>Comprehensive Analytical Chemistry</i> , 2007, 48, 231-249. | 1.3 | 3 |
| 96 | SLOW-STIRRING METHOD FOR DETERMINING THE n-OCTANOL/WATER PARTITION COEFFICIENT (P _{ow}) FOR HIGHLY HYDROPHOBIC CHEMICALS: PERFORMANCE EVALUATION IN A RING TEST. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1051. | 4.3 | 2 |
| 97 | Chapter 5 Membrane-enclosed sorptive coating as integrative sampler for monitoring organic compounds in air. <i>Comprehensive Analytical Chemistry</i> , 2007, , 107-123. | 1.3 | 1 |
| 98 | Konzentrationsabhängigkeit des Octanol/Wasser-Verteilungskoeffizienten der Hexachlorcyclohexan-Isomere bei 25 °C. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 84-88. | 0.8 | 0 |
| 99 | Consideration of the Physicochemical Properties of Sample Matrices – An Important Step in Sampling and Sample Preparation. <i>ChemInform</i> , 2003, 34, no. | 0.0 | 0 |