

Foppe Smedes

List of Publications by Year in descending order

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74
papers

5,068
citations

94433

37
h-index

88630

70
g-index

77
all docs

77
docs citations

77
times ranked

4070
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple and fast solvent extraction system for selective and quantitative isolation of adrenaline, noradrenaline and dopamine from plasma and urine. <i>Biomedical Applications</i> , 1982, 231, 25-39.	1.7	389
2	Determination of total lipid using non-chlorinated solvents. <i>Analyst, The</i> , 1999, 124, 1711-1718.	3.5	287
3	Calibrating the uptake kinetics of semipermeable membrane devices using exposure standards. <i>Environmental Toxicology and Chemistry</i> , 1998, 17, 1236-1245.	4.3	269
4	Towards the review of the European Union Water Framework Directive: Recommendations for more efficient assessment and management of chemical contamination in European surface water resources. <i>Science of the Total Environment</i> , 2017, 576, 720-737.	8.0	255
5	Future water quality monitoring – Adapting tools to deal with mixtures of pollutants in water resource management. <i>Science of the Total Environment</i> , 2015, 512-513, 540-551.	8.0	243
6	Spiking of performance reference compounds in low density polyethylene and silicone passive water samplers. <i>Chemosphere</i> , 2002, 46, 1157-1161.	8.2	233
7	Polymer – Water Partition Coefficients of Hydrophobic Compounds for Passive Sampling: Application of Cosolvent Models for Validation. <i>Environmental Science & Technology</i> , 2009, 43, 7047-7054.	10.0	224
8	Polymer selection for passive sampling: A comparison of critical properties. <i>Chemosphere</i> , 2007, 68, 1344-1351.	8.2	206
9	An Improved Method for Estimating in Situ Sampling Rates of Nonpolar Passive Samplers. <i>Environmental Science & Technology</i> , 2010, 44, 6789-6794.	10.0	182
10	Preferential Sorption of Planar Contaminants in Sediments from Lake Ketelmeer, The Netherlands. <i>Environmental Science & Technology</i> , 2000, 34, 1620-1626.	10.0	164
11	Normalization procedures for sediment contaminants in spatial and temporal trend monitoring. <i>Journal of Environmental Monitoring</i> , 2002, 4, 109-115.	2.1	154
12	Calibration of Silicone Rubber Passive Samplers: Experimental and Modeled Relations between Sampling Rate and Compound Properties. <i>Environmental Science & Technology</i> , 2010, 44, 362-367.	10.0	136
13	Passive Sampling in Regulatory Chemical Monitoring of Nonpolar Organic Compounds in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2016, 50, 3-17.	10.0	131
14	Use of passive sampling devices for monitoring and compliance checking of POP concentrations in water. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1885-1895.	5.3	102
15	Passive sampling methods for contaminated sediments: State of the science for organic contaminants. <i>Integrated Environmental Assessment and Management</i> , 2014, 10, 167-178.	2.9	101
16	Position paper on passive sampling techniques for the monitoring of contaminants in the aquatic environment – Achievements to date and perspectives. <i>Trends in Environmental Analytical Chemistry</i> , 2015, 8, 20-26.	10.3	92
17	Revisiting the Development of the Bligh and Dyer Total Lipid Determination Method. <i>Marine Pollution Bulletin</i> , 1999, 38, 193-201.	5.0	89
18	Evaluation of the Bligh & Dyer lipid determination method. <i>Marine Pollution Bulletin</i> , 1996, 32, 681-688.	5.0	85

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19	Determining the chemical activity of hydrophobic organic compounds in soil using polymer coated vials. <i>Chemistry Central Journal</i> , 2008, 2, 8.	2.6	82
20	Determination of chlorobiphenyls in sediments – analytical methods. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 503-517.	11.4	74
21	Comparison of grain size correction procedures for organic micropollutants and heavy metals in marine sediments. <i>Hydrobiologia</i> , 1990, 208, 213-220.	2.0	72
22	Environmental Monitoring of Hydrophobic Organic Contaminants: The Case of Mussels versus Semipermeable Membrane Devices. <i>Environmental Science & Technology</i> , 2006, 40, 3893-3900.	10.0	71
23	Diffusion coefficients of polychlorinated biphenyls and polycyclic aromatic hydrocarbons in polydimethylsiloxane and low-density polyethylene polymers. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1803-1810.	2.6	64
24	Aquatic Global Passive Sampling (AQUA-GAPS) Revisited: First Steps toward a Network of Networks for Monitoring Organic Contaminants in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2017, 51, 1060-1067.	10.0	61
25	High-performance liquid chromatographic separation and selective detection of anionic surfactants. <i>Journal of Chromatography A</i> , 1982, 247, 123-132.	3.7	59
26	Multi-Ratio Equilibrium Passive Sampling Method to Estimate Accessible and Pore Water Concentrations of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in Sediment. <i>Environmental Science & Technology</i> , 2013, 47, 510-517.	10.0	58
27	A method for estimation of chlorinated biphenyls in surface waters: influence of sampling method on analytical results. <i>Environmental Science & Technology</i> , 1992, 26, 2028-2035.	10.0	54
28	Quantifying the Effects of Temperature and Salinity on Partitioning of Hydrophobic Organic Chemicals to Silicone Rubber Passive Samplers. <i>Environmental Science & Technology</i> , 2015, 49, 6791-6799.	10.0	54
29	Polymers as Reference Partitioning Phase: Polymer Calibration for an Analytically Operational Approach To Quantify Multimedia Phase Partitioning. <i>Analytical Chemistry</i> , 2016, 88, 5818-5826.	6.5	51
30	An interlaboratory study on passive sampling of emerging water pollutants. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 76, 153-165.	11.4	50
31	Construction of columns for liquid chromatography with very large plate numbers. <i>Journal of Chromatography A</i> , 1976, 122, 147-158.	3.7	49
32	Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment. <i>Environmental Sciences Europe</i> , 2015, 27, 5.	5.5	48
33	Calibration of polydimethylsiloxane and XAD-Pocket passive air samplers (PAS) for measuring gas- and particle-phase SVOCs. <i>Atmospheric Environment</i> , 2016, 143, 202-208.	4.1	47
34	Stable carbon and radiocarbon isotope compositions of particle size fractions to determine origins of sedimentary organic matter in an estuary. <i>Organic Geochemistry</i> , 2002, 33, 945-952.	1.8	42
35	Chapter 19 Monitoring of chlorinated biphenyls and polycyclic aromatic hydrocarbons by passive sampling in concert with deployed mussels. <i>Comprehensive Analytical Chemistry</i> , 2007, , 407-448.	1.3	40
36	A new, rapid clean-up procedure for the simultaneous determination of different groups of organic micropollutants in sediments; application in two european estuarine sediment studies. <i>Environmental Technology Letters</i> , 1987, 8, 9-20.	0.4	39

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37	Advancing the Use of Passive Sampling in Risk Assessment and Management of Sediments Contaminated with Hydrophobic Organic Chemicals: Results of an International Ex Situ Passive Sampling Interlaboratory Comparison. <i>Environmental Science & Technology</i> , 2018, 52, 3574-3582.	10.0	38
38	Partitioning of hydrophobic organic contaminants between polymer and lipids for two silicones and low density polyethylene. <i>Chemosphere</i> , 2017, 186, 948-957.	8.2	36
39	Toxicity profiling of marine surface sediments: A case study using rapid screening bioassays of exhaustive total extracts, elutriates and passive sampler extracts. <i>Marine Environmental Research</i> , 2017, 124, 81-91.	2.5	35
40	Sampling and Partition of Neutral Organic Contaminants in Surface Waters With Regard to Legislation, Environmental Quality and Flux Estimations. <i>International Journal of Environmental Analytical Chemistry</i> , 1994, 57, 215-229.	3.3	31
41	Siliconeâ€“water partition coefficients determined by cosolvent method for chlorinated pesticides, musks, organo phosphates, phthalates and more. <i>Chemosphere</i> , 2018, 210, 662-671.	8.2	30
42	Partitioning and Bioaccumulation of Legacy and Emerging Hydrophobic Organic Chemicals in Mangrove Ecosystems. <i>Environmental Science & Technology</i> , 2019, 53, 2549-2558.	10.0	29
43	Evaluation of the results of the QUASIMEME lipid intercomparison: the Bligh & Dyer total lipid extraction method. <i>Marine Pollution Bulletin</i> , 1996, 32, 674-680.	5.0	28
44	Contaminants in eggs of some waterbird species from the Scheldt estuary, SW Netherlands. <i>Marine Pollution Bulletin</i> , 1993, 26, 572-578.	5.0	27
45	Comparison of five integrative samplers in laboratory for the monitoring of indicator and dioxin-like polychlorinated biphenyls in water. <i>Chemosphere</i> , 2014, 98, 18-27.	8.2	27
46	Ex situ determination of freely dissolved concentrations of hydrophobic organic chemicals in sediments and soils: basis for interpreting toxicity and assessing bioavailability, risks and remediation necessity. <i>Nature Protocols</i> , 2020, 15, 1800-1828.	12.0	27
47	Investigating the significance of dissolved organic contaminants in aquatic environments: Coupling passive sampling with in vitro bioassays. <i>Chemosphere</i> , 2013, 90, 210-219.	8.2	26
48	Mobile dynamic passive sampling of trace organic compounds: Evaluation of sampler performance in the Danube River. <i>Science of the Total Environment</i> , 2018, 636, 1597-1607.	8.0	26
49	Identifying the Research and Infrastructure Needs for the Global Assessment of Hazardous Chemicals Ten Years after Establishing the Stockholm Convention. <i>Environmental Science & Technology</i> , 2011, 45, 7617-7619.	10.0	25
50	Determination of (mono-, di- and) tributyltin in sediments. Analytical methods. <i>Journal of Environmental Monitoring</i> , 2000, 2, 541-549.	2.1	24
51	SSP siliconeâ€“, lipidâ€“ and SPMDâ€“water partition coefficients of seventy hydrophobic organic contaminants and evaluation of the water concentration calculator for SPMD. <i>Chemosphere</i> , 2019, 223, 748-757.	8.2	24
52	Chasing equilibrium passive sampling of hydrophobic organic compounds in water. <i>Science of the Total Environment</i> , 2019, 664, 424-435.	8.0	23
53	The chemistry programme. <i>Marine Ecology - Progress Series</i> , 1992, 91, 47-56.	1.9	23
54	Time-Integrative Passive sampling combined with TOxicity Profiling (TIPTOP): an effect-based strategy for cost-effective chemical water quality assessment. <i>Environmental Toxicology and Pharmacology</i> , 2018, 64, 48-59.	4.0	21

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55	Investigating levels of organic contaminants in Danube River sediments in Serbia by multi- α -ratio equilibrium passive sampling. <i>Science of the Total Environment</i> , 2019, 696, 133935.	8.0	21
56	Application of on-column concentration of deproteinized serum to the HPLC-determination of anticonvulsants. <i>Chromatographia</i> , 1980, 13, 673-676.	1.3	20
57	Predicting the bioaccumulation of polyaromatic hydrocarbons and polychlorinated biphenyls in benthic animals in sediments. <i>Science of the Total Environment</i> , 2016, 563-564, 396-404.	8.0	17
58	Equilibrium Passive Sampling of POP in Lipid-Rich and Lean Fish Tissue: Quality Control Using Performance Reference Compounds. <i>Environmental Science & Technology</i> , 2017, 51, 11250-11257.	10.0	16
59	Calibration parameters for the passive sampling of organic UV filters by silicone; diffusion coefficients and silicone-water partition coefficients. <i>Chemosphere</i> , 2019, 223, 731-737.	8.2	16
60	Effects of storage conditions of biological materials on the contents of organochlorine compounds and mercury. <i>Marine Pollution Bulletin</i> , 1997, 35, 93-108.	5.0	15
61	Unraveling the Relationship between the Concentrations of Hydrophobic Organic Contaminants in Freshwater Fish of Different Trophic Levels and Water Using Passive Sampling. <i>Environmental Science & Technology</i> , 2020, 54, 7942-7951.	10.0	14
62	Passive sampling of pesticides and polychlorinated biphenyls along the Quequén Grande River watershed, Argentina. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 340-349.	4.3	12
63	Laboratory performance study for passive sampling of nonpolar chemicals in water. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1156-1161.	4.3	11
64	CALIBRATING THE UPTAKE KINETICS OF SEMIPERMEABLE MEMBRANE DEVICES USING EXPOSURE STANDARDS. <i>Environmental Toxicology and Chemistry</i> , 1998, 17, 1236.	4.3	10
65	Performance comparison of silicone and low-density polyethylene as passive samplers in a global monitoring network for aquatic organic contaminants. <i>Environmental Pollution</i> , 2022, 302, 119050.	7.5	10
66	Quality assurance and quality control of surface water sampling. , 0, , 51-90.		9
67	Application of equilibrium passive sampling to profile pore water and accessible concentrations of hydrophobic organic contaminants in Danube sediments. <i>Environmental Pollution</i> , 2020, 267, 115470.	7.5	8
68	Hydrophilic Divinylbenzene for Equilibrium Sorption of Emerging Organic Contaminants in Aquatic Matrices. <i>Environmental Science & Technology</i> , 2019, 53, 10803-10812.	10.0	7
69	Time integrative sampling properties of Speedisk and silicone rubber passive samplers determined by chemical analysis and in vitro bioassay testing. <i>Chemosphere</i> , 2020, 259, 127498.	8.2	7
70	Semi-xylene orange and its purification by high-pressure liquid chromatography. <i>Talanta</i> , 1983, 30, 614-616.	5.5	3
71	Investigation of cosolvent application to enhance POPs TM mass transfer in partitioning passive sampling in sediment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27334-27344.	5.3	3
72	Analytical Applications Of High-Resolution Molecular Fluorescence Spectroscopy In Low Temperature Solid Matrices. <i>Proceedings of SPIE</i> , 1989, , .	0.8	2

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73	Passive Sampling of Waterborne Contaminants. <i>Methods in Pharmacology and Toxicology</i> , 2020, , 1.	0.2	2
74	A Simple Teabag Equilibrium Passive Sampler using hydrophilic divinylbenzene sorbent for contaminants of emerging concern in the marine environment. <i>Science of the Total Environment</i> , 2021, 777, 146055.	8.0	2