

Hans Peter H Arp

List of Publications by Year in descending order

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100
papers

6,928
citations

71102

41
h-index

62596

80
g-index

104
all docs

104
docs citations

104
times ranked

6674
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence and sorption behaviour of bisphenols and benzophenone UV-filters in e-waste plastic and vehicle fluff. <i>Journal of Hazardous Materials</i> , 2022, 426, 127814.	12.4	8
2	The Fate and Transport of Chlorinated Polyfluorinated Ether Sulfonates and Other PFAS through Industrial Wastewater Treatment Facilities in China. <i>Environmental Science & Technology</i> , 2022, 56, 3002-3010.	10.0	23
3	Towards improved characterization of the fate and impact of hydraulic fracturing chemicals to better secure regional water quality. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 497-503.	3.5	7
4	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment. <i>Environmental Science & Technology</i> , 2022, 56, 4702-4710.	10.0	41
5	Getting in control of persistent, mobile and toxic (PMT) and very persistent and very mobile (vPvM) substances to protect water resources: strategies from diverse perspectives. <i>Environmental Sciences Europe</i> , 2022, 34, .	5.5	39
6	Effects of leachates from UV-weathered microplastic on the microalgae <i>Scenedesmus vacuolatus</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1469-1479.	3.7	24
7	Ultra-Short-Chain PFASs in the Sources of German Drinking Water: Prevalent, Overlooked, Difficult to Remove, and Unregulated. <i>Environmental Science & Technology</i> , 2022, 56, 6380-6390.	10.0	46
8	Paper product production identified as the main source of per- and polyfluoroalkyl substances (PFAS) in a Norwegian lake: Source and historic emission tracking. <i>Environmental Pollution</i> , 2021, 273, 116259.	7.5	47
9	Editorial: Plastics in the Environment: Understanding Impacts and Identifying Solutions. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	1
10	Weathering Plastics as a Planetary Boundary Threat: Exposure, Fate, and Hazards. <i>Environmental Science & Technology</i> , 2021, 55, 7246-7255.	10.0	152
11	The global threat from plastic pollution. <i>Science</i> , 2021, 373, 61-65.	12.6	862
12	How do different nitrogen application levels and irrigation practices impact biological nitrogen fixation and its distribution in paddy system?. <i>Plant and Soil</i> , 2021, 467, 329-344.	3.7	9
13	The role of crystallinity and particle morphology on the sorption of dibutyl phthalate on polyethylene microplastics: Implications for the behavior of phthalate plastic additives. <i>Environmental Pollution</i> , 2021, 283, 117393.	7.5	32
14	Effects of Organic Carbon Origin on Hydrophobic Organic Contaminant Fate in the Baltic Sea. <i>Environmental Science & Technology</i> , 2021, 55, 13061-13071.	10.0	7
15	Excavated vs novel in situ soil washing as a remediation strategy for sandy soils impacted with per- and polyfluoroalkyl substances from aqueous film forming foams. <i>Science of the Total Environment</i> , 2021, 794, 148763.	8.0	20
16	Roads with underlying tar asphalt - spreading, bioavailability and toxicity of their polycyclic aromatic hydrocarbons. <i>Environmental Pollution</i> , 2021, 289, 117828.	7.5	7
17	The distribution of persistent, mobile and toxic (PMT) pharmaceuticals and personal care products monitored across Chinese water resources. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100026.	3.6	19
18	Preventing brominated flame retardants from occurring in recycled expanded polystyrene: comparing Norwegian visual sorting with advanced screening methods. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100016.	3.6	5

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19	Moving forward in microplastic research: A Norwegian perspective. <i>Environment International</i> , 2021, 157, 106794.	10.0	29
20	Combining <i>In Silico</i> Tools with Multicriteria Analysis for Alternatives Assessment of Hazardous Chemicals: Accounting for the Transformation Products of decaBDE and Its Alternatives. <i>Environmental Science & Technology</i> , 2021, 55, 1088-1098.	10.0	10
21	Could We Spare a Moment of the Spotlight for Persistent, Water-Soluble Polymers?. <i>Environmental Science & Technology</i> , 2020, 54, 3-5.	10.0	47
22	Whatâ€™s in a Name: Persistent, Mobile, and Toxic (PMT) and Very Persistent and Very Mobile (vPvM) Substances. <i>Environmental Science & Technology</i> , 2020, 54, 14790-14792.	10.0	41
23	Facilitating microplastic quantification through the introduction of a cellulose dissolution step prior to oxidation: Proof-of-concept and demonstration using diverse samples from the Inner Oslofjord, Norway. <i>Marine Environmental Research</i> , 2020, 161, 105080.	2.5	21
24	The Need to Adopt an International PMT Strategy to Protect Drinking Water Resources. <i>Environmental Science & Technology</i> , 2020, 54, 11651-11653.	10.0	27
25	Microplastic accumulation by tube-dwelling, suspension feeding polychaetes from the sediment surface: A case study from the Norwegian Continental Shelf. <i>Marine Environmental Research</i> , 2020, 161, 105073.	2.5	32
26	The presence, emission and partitioning behavior of polychlorinated biphenyls in waste, leachate and aerosols from Norwegian waste-handling facilities. <i>Science of the Total Environment</i> , 2020, 715, 136824.	8.0	16
27	Persistent, mobile and toxic (PMT) and very persistent and very mobile (vPvM) substances pose an equivalent level of concern to persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB) substances under REACH. <i>Environmental Sciences Europe</i> , 2020, 32, .	5.5	80
28	Effects of Leachates from UV-Weathered Microplastic in Cell-Based Bioassays. <i>Environmental Science & Technology</i> , 2019, 53, 9214-9223.	10.0	91
29	Leachate emissions of short- and long-chain per- and polyfluoralkyl substances (PFASs) from various Norwegian landfills. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1970-1979.	3.5	43
30	Combining <i>In Silico</i> Tools with Multicriteria Analysis for Alternatives Assessment of Hazardous Chemicals: A Case Study of Decabromodiphenyl Ether Alternatives. <i>Environmental Science & Technology</i> , 2019, 53, 6341-6351.	10.0	17
31	Using REACH registration data to rank the environmental emission potential of persistent and mobile organic chemicals. <i>Science of the Total Environment</i> , 2018, 625, 1122-1128.	8.0	50
32	Advances in research on the use of biochar in soil for remediation: a review. <i>Journal of Soils and Sediments</i> , 2018, 18, 2433-2450.	3.0	94
33	Limited mobility of dioxins near San Jacinto super fund site (waste pit) in the Houston Ship Channel, Texas due to strong sediment sorption. <i>Environmental Pollution</i> , 2018, 238, 988-998.	7.5	13
34	Kinetic accumulation processes and models for 43 micropollutants in âœpharmaceuticalâœ•POCIS. <i>Science of the Total Environment</i> , 2018, 615, 197-207.	8.0	42
35	Research on the relationship between urban form and urban smog in China. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2017, 44, 328-342.	2.0	18
36	The mass flow and proposed management of bisphenol A in selected Norwegian waste streams. <i>Waste Management</i> , 2017, 60, 775-785.	7.4	23

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37	Reducing Uncertainty and Confronting Ignorance about the Possible Impacts of Weathering Plastic in the Marine Environment. <i>Environmental Science and Technology Letters</i> , 2017, 4, 85-90.	8.7	372
38	Enhanced biodegradation of PAHs in historically contaminated soil by <i>M.Âgilvum</i> inoculated biochar. <i>Chemosphere</i> , 2017, 182, 316-324.	8.2	99
39	Ranking REACH registered neutral, ionizable and ionic organic chemicals based on their aquatic persistency and mobility. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 939-955.	3.5	69
40	Sorbent amendment as a remediation strategy to reduce PFAS mobility and leaching in a contaminated sandy soil from a Norwegian firefighting training facility. <i>Chemosphere</i> , 2017, 171, 9-18.	8.2	129
41	The presence and partitioning behavior of flame retardants in waste, leachate, and air particles from Norwegian waste-handling facilities. <i>Journal of Environmental Sciences</i> , 2017, 62, 115-132.	6.1	34
42	The distribution dynamics and desorption behaviour of mobile pharmaceuticals and caffeine to combined sewer sediments. <i>Water Research</i> , 2017, 108, 57-67.	11.3	28
43	Mind the Gap: Persistent and Mobile Organic Compoundsâ€™ Water Contaminants That Slip Through. <i>Environmental Science & Technology</i> , 2016, 50, 10308-10315.	10.0	280
44	Combining Leaching and Passive Sampling To Measure the Mobility and Distribution between Porewater, DOC, and Colloids of Native Oxy-PAHs, N-PACs, and PAHs in Historically Contaminated Soil. <i>Environmental Science & Technology</i> , 2016, 50, 11797-11805.	10.0	45
45	A synthesis of parameters related to the binding of neutral organic compounds to charcoal. <i>Chemosphere</i> , 2016, 144, 65-74.	8.2	56
46	Review of polyoxymethylene passive sampling methods for quantifying freely dissolved porewater concentrations of hydrophobic organic contaminants. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 710-720.	4.3	42
47	The degradation behaviour of nine diverse contaminants in urban surface water and wastewater prior to water treatment. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 2051-2065.	3.5	8
48	The presence and leachability of antimony in different wastes and waste handling facilities in Norway. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1880-1891.	3.5	17
49	Sorption and desorption of diverse contaminants of varying polarity in wastewater sludge with and without alum. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 674-682.	3.5	23
50	Towards threshold-based management of freshwater ecosystems in the context of climate change. <i>Ecological Modelling</i> , 2015, 318, 265-274.	2.5	35
51	Bisphenol A in Solid Waste Materials, Leachate Water, and Air Particles from Norwegian Waste-Handling Facilities: Presence and Partitioning Behavior. <i>Environmental Science & Technology</i> , 2015, 49, 7675-7683.	10.0	60
52	The influence of various biochars on the bioaccessibility and bioaccumulation of PAHs and potentially toxic elements to turnips (<i>Brassica rapa</i> L.). <i>Journal of Hazardous Materials</i> , 2015, 300, 243-253.	12.4	221
53	Determination of polyoxymethylene (POM) â€™ water partition coefficients for oxy-PAHs and PAHs. <i>Chemosphere</i> , 2015, 119, 1268-1274.	8.2	27
54	Sorption of the monoterpenes α -pinene and limonene to carbonaceous geosorbents including biochar. <i>Chemosphere</i> , 2015, 119, 881-888.	8.2	28

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55	Native Oxy-PAHs, N-PACs, and PAHs in Historically Contaminated Soils from Sweden, Belgium, and France: Their Soil-Porewater Partitioning Behavior, Bioaccumulation in <i>Enchytraeus crypticus</i> , and Bioavailability. <i>Environmental Science & Technology</i> , 2014, 48, 11187-11195.	10.0	97
56	When will the TBT go away? Integrating monitoring and modelling to address TBT's delayed disappearance in the Drammensfjord, Norway. <i>Water Research</i> , 2014, 65, 213-223.	11.3	14
57	Aerosol Water Distribution of PCDD/Fs and PCBs in the Baltic Sea Region. <i>Environmental Science & Technology</i> , 2013, 47, 781-789.	10.0	17
58	Sewage Sludge Biochar Influence upon Rice (<i>Oryza sativa</i>) Yield, Metal Bioaccumulation and Greenhouse Gas Emissions from Acidic Paddy Soil. <i>Environmental Science & Technology</i> , 2013, 47, 8624-8632.	10.0	413
59	Environmental occurrence of emerging and legacy brominated flame retardants near suspected sources in Norway. <i>Science of the Total Environment</i> , 2013, 443, 307-314.	8.0	67
60	Ionic Liquid Assisted Dissolution of Dissolved Organic Matter and PAHs from Soil Below the Critical Micelle Concentration. <i>Environmental Science & Technology</i> , 2013, 47, 6951-6958.	10.0	33
61	Sorption of Pure N_2O to Biochars and Other Organic and Inorganic Materials under Anhydrous Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 7704-7712.	10.0	103
62	The effects of biochars from rice residue on the formation of iron plaque and the accumulation of Cd, Zn, Pb, As in rice (<i>Oryza sativa</i> L.) seedlings. <i>Chemosphere</i> , 2012, 89, 856-862.	8.2	248
63	Emerging Decontaminants. <i>Environmental Science & Technology</i> , 2012, 46, 4259-4260.	10.0	39
64	Examination of the relationship between urban form and urban eco-efficiency in china. <i>Habitat International</i> , 2012, 36, 171-177.	5.8	79
65	Quantifying the Total and Bioavailable Polycyclic Aromatic Hydrocarbons and Dioxins in Biochars. <i>Environmental Science & Technology</i> , 2012, 46, 2830-2838.	10.0	485
66	Presence and partitioning properties of the flame retardants pentabromotoluene, pentabromoethylbenzene and hexabromobenzene near suspected source zones in Norway. <i>Journal of Environmental Monitoring</i> , 2011, 13, 505-513.	2.1	48
67	Comparison of polycyclic aromatic hydrocarbon uptake pathways and risk assessment of vegetables from waste-water irrigated areas in northern China. <i>Journal of Environmental Monitoring</i> , 2011, 13, 433-439.	2.1	44
68	Equilibrium Partition Coefficients of Diverse Polar and Nonpolar Organic Compounds to Polyoxymethylene (POM) Passive Sampling Devices. <i>Environmental Science & Technology</i> , 2011, 45, 10124-10132.	10.0	93
69	Comment on "Partition Coefficients of Organic Contaminants with Carbohydrates". <i>Environmental Science & Technology</i> , 2011, 45, 1158-1158.	10.0	21
70	Remediation of Contaminated Marine Sediment Using Thin-Layer Capping with Activated Carbon: A Field Experiment in Trondheim Harbor, Norway. <i>Environmental Science & Technology</i> , 2011, 45, 6110-6116.	10.0	98
71	Improving Predictability of Sediment-Porewater Partitioning Models using Trends Observed with PCB-Contaminated Field Sediments. <i>Environmental Science & Technology</i> , 2011, 45, 7365-7371.	10.0	33
72	Predicting Pore Water EPA-34 PAH Concentrations and Toxicity in Pyrogenic-Impacted Sediments Using Pyrene Content. <i>Environmental Science & Technology</i> , 2011, 45, 5139-5146.	10.0	48

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73	Phytoremediation efficiency of a PAH-contaminated industrial soil using ryegrass, white clover, and celerly as mono- and mixed cultures. <i>Journal of Soils and Sediments</i> , 2011, 11, 482-490.	3.0	84
74	Influence of historical industrial epochs on pore water and partitioning profiles of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in Oslo Harbor, Norway, sediment cores. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 843-851.	4.3	30
75	Sedimentation and chronology of heavy metal pollution in Oslo harbor, Norway. <i>Marine Pollution Bulletin</i> , 2010, 60, 1512-1522.	5.0	51
76	Partitioning of organochlorine pesticides from water to polyethylene passive samplers. <i>Environmental Pollution</i> , 2010, 158, 2511-2517.	7.5	90
77	Relevance of 1,2,5,6,9,10-hexabromocyclododecane diastereomer structure on partitioning properties, column-retention and clean-up procedures. <i>Journal of Chromatography A</i> , 2010, 1217, 1441-1446.	3.7	16
78	Response to Comment on "More of EPA's SPARC Online Calculator" The Need for High Quality Predictions of Chemical Properties. <i>Environmental Science & Technology</i> , 2010, 44, 7746-7747.	10.0	3
79	Comment on "Assessment of PDMS-Water Partition Coefficients: Implications for Passive Environmental Sampling of Hydrophobic Compounds" <i>Environmental Science & Technology</i> , 2010, 44, 8787-8788.	10.0	4
80	More of EPA's SPARC Online Calculator The Need for High-Quality Predictions of Chemical Properties. <i>Environmental Science & Technology</i> , 2010, 44, 4400-4401.	10.0	18
81	Response to Comment on "Irreversible sorption of trace concentrations of perfluorocarboxylic acids to fiber filters used for air sampling" by Arp and Goss (<i>Atmospheric Environment</i> 42, 6869-6872, 2008). <i>Atmospheric Environment</i> , 2009, 43, 3654-3655.	4.1	7
82	Nonadditive effects in the partitioning behavior of various aliphatic and aromatic molecules. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 52-60.	4.3	23
83	Ambient Gas/Particle Partitioning. 3. Estimating Partition Coefficients of Apolar, Polar, and Ionizable Organic Compounds by Their Molecular Structure. <i>Environmental Science & Technology</i> , 2009, 43, 1923-1929.	10.0	43
84	Gas/Particle Partitioning Behavior of Perfluorocarboxylic Acids with Terrestrial Aerosols. <i>Environmental Science & Technology</i> , 2009, 43, 8542-8547.	10.0	43
85	Estimating the in situ Sediment Porewater Distribution of PAHs and Chlorinated Aromatic Hydrocarbons in Anthropogenic Impacted Sediments. <i>Environmental Science & Technology</i> , 2009, 43, 5576-5585.	10.0	92
86	Comment on "Experimental K_{ow} Determination for Perfluorooctanoic Acid (PFOA) and the Potential Impact of K_{ow} Concentration Dependence on Laboratory-Measured Partitioning Phenomena and Environmental Modeling" <i>Environmental Science & Technology</i> , 2009, 43, 5150-5151.	10.0	37
87	Determination of ambient gas-particle partitioning constants of non-polar and polar organic compounds using inverse gas chromatography. <i>Atmospheric Environment</i> , 2008, 42, 303-312.	4.1	13
88	Irreversible sorption of trace concentrations of perfluorocarboxylic acids to fiber filters used for air sampling. <i>Atmospheric Environment</i> , 2008, 42, 6869-6872.	4.1	49
89	Assessing PAH and PCB emissions from the relocation of harbour sediments using equilibrium passive samplers. <i>Chemosphere</i> , 2008, 72, 1581-1587.	8.2	72
90	Partition Behavior of Hexachlorocyclohexane Isomers. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 750-754.	1.9	50

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91	Freely Dissolved Concentrations and Sediment-Water Activity Ratios of PCDD/Fs and PCBs in the Open Baltic Sea. <i>Environmental Science & Technology</i> , 2008, 42, 8733-8739.	10.0	91
92	Ambient Gas/Particle Partitioning. 1. Sorption Mechanisms of Apolar, Polar, and Ionizable Organic Compounds. <i>Environmental Science & Technology</i> , 2008, 42, 5541-5547.	10.0	74
93	Ambient Gas/Particle Partitioning. 2: The Influence of Particle Source and Temperature on Sorption to Dry Terrestrial Aerosols. <i>Environmental Science & Technology</i> , 2008, 42, 5951-5957.	10.0	71
94	Equilibrium sorption of gaseous organic chemicals to fiber filters used for aerosol studies. <i>Atmospheric Environment</i> , 2007, 41, 8241-8252.	4.1	31
95	Predicting the Partitioning Behavior of Various Highly Fluorinated Compounds. <i>Environmental Science & Technology</i> , 2006, 40, 7298-7304.	10.0	217
96	EVALUATION OF A PREDICTIVE MODEL FOR AIR/SURFACE ADSORPTION EQUILIBRIUM CONSTANTS AND ENTHALPIES. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 45.	4.3	22
97	Comment on "Model for the adsorption of organic compounds at gas-water interfaces" by C. F. Poole, <i>JEM</i> , 2005, 7, 577. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1105.	2.1	2
98	Predicting Methyltert-Butyl Ether, tert-Butyl Formate, and tert-Butyl Alcohol Levels in the Environment Using the Fugacity Approach. <i>Environmental Science & Technology</i> , 2005, 39, 3237-3244.	10.0	12
99	Air-Water Transfer of MTBE, Its Degradation Products, and Alternative Fuel Oxygenates: The Role of Temperature. <i>Environmental Science & Technology</i> , 2004, 38, 5405-5412.	10.0	41
100	Preparation, Characterization, X-ray Crystal Structure, and Energetics of Cesium 5-Cyano-1,2,3,4-Tetrazolate: Cs[NCCNNN]. <i>Inorganic Chemistry</i> , 2000, 39, 1840-1848.	4.0	40