Hans Peter H Arp

List of Publications by Year
in descending order

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	The global threat from plastic pollution. Science, 2021, 373, 61-65.	12.6	862
2	Quantifying the Total and Bioavailable Polycyclic Aromatic Hydrocarbons and Dioxins in Biochars. Environmental Science & Technology, 2012, 46, 2830-2838.	10.0	485
3	Sewage Sludge Biochar Influence upon Rice (Oryza sativa L) Yield, Metal Bioaccumulation and Greenhouse Gas Emissions from Acidic Paddy Soil. Environmental Science & Technology, 2013, 47, 8624-8632.	10.0	413
4	Reducing Uncertainty and Confronting Ignorance about the Possible Impacts of Weathering Plastic in the Marine Environment. Environmental Science and Technology Letters, 2017, 4, 85-90.	8.7	372
5	Mind the Gap: Persistent and Mobile Organic Compoundsâ€"Water Contaminants That Slip Through. Environmental Science & Technology, 2016, 50, 10308-10315.	10.0	280
6	The effects of biochars from rice residue on the formation of iron plaque and the accumulation of Cd, Zn, Pb, As in rice (Oryza sativa L.) seedlings. Chemosphere, 2012, 89, 856-862.	8.2	248
7	The influence of various biochars on the bioaccessibility and bioaccumulation of PAHs and potentially toxic elements to turnips (Brassica rapa L.). Journal of Hazardous Materials, 2015, 300, 243-253.	12.4	221
8	Predicting the Partitioning Behavior of Various Highly Fluorinated Compounds. Environmental Science & Technology, 2006, 40, 7298-7304.	10.0	217
9	Weathering Plastics as a Planetary Boundary Threat: Exposure, Fate, and Hazards. Environmental Science & Technology, 2021, 55, 7246-7255.	10.0	152
10	Sorbent amendment as a remediation strategy to reduce PFAS mobility and leaching in a contaminated sandy soil from a Norwegian firefighting training facility. Chemosphere, 2017, 171, 9-18.	8.2	129
11	Sorption of Pure N₂O to Biochars and Other Organic and Inorganic Materials under Anhydrous Conditions. Environmental Science & Technology, 2013, 47, 7704-7712.	10.0	103
12	Enhanced biodegradation of PAHs in historically contaminated soil by M.Âgilvum inoculated biochar. Chemosphere, 2017, 182, 316-324.	8.2	99
13	Remediation of Contaminated Marine Sediment Using Thin-Layer Capping with Activated Carbonâ€"A Field Experiment in Trondheim Harbor, Norway. Environmental Science & Technology, 2011, 45, 6110-6116.	10.0	98
14	Native Oxy-PAHs, N-PACs, and PAHs in Historically Contaminated Soils from Sweden, Belgium, and France: Their Soil-Porewater Partitioning Behavior, Bioaccumulation in Enchytraeus crypticus, and Bioavailability. Environmental Science & Technology, 2014, 48, 11187-11195.	10.0	97
15	Advances in research on the use of biochar in soil for remediation: a review. Journal of Soils and Sediments, 2018, 18, 2433-2450.	3.0	94
16	Equilibrium Partition Coefficients of Diverse Polar and Nonpolar Organic Compounds to Polyoxymethylene (POM) Passive Sampling Devices. Environmental Science & Technology, 2011, 45, 10124-10132.	10.0	93
17	Estimating the in situ Sedimentâ"Porewater Distribution of PAHs and Chlorinated Aromatic Hydrocarbons in Anthropogenic Impacted Sediments. Environmental Science & Technology, 2009, 43, 5576-5585.	10.0	92
18	Freely Dissolved Concentrations and Sediment-Water Activity Ratios of PCDD/Fs and PCBs in the Open Baltic Sea. Environmental Science & Technology, 2008, 42, 8733-8739.	10.0	91

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19	Effects of Leachates from UV-Weathered Microplastic in Cell-Based Bioassays. Environmental Science & Technology, 2019, 53, 9214-9223.	10.0	91
20	Partitioning of organochlorine pesticides from water to polyethylene passive samplers. Environmental Pollution, 2010, 158, 2511-2517.	7.5	90
21	Phytoremediation efficiency of a PAH-contaminated industrial soil using ryegrass, white clover, and celery as mono- and mixed cultures. Journal of Soils and Sediments, 2011, 11, 482-490.	3.0	84
22	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. Environmental Sciences Europe, 2020, 32, .	5.5	80
23	Examination of the relationship between urban form and urban eco-efficiency in china. Habitat International, 2012, 36, 171-177.	5.8	79
24	Ambient Gas/Particle Partitioning. 1. Sorption Mechanisms of Apolar, Polar, and Ionizable Organic Compounds. Environmental Science & Technology, 2008, 42, 5541-5547.	10.0	74
25	Assessing PAH and PCB emissions from the relocation of harbour sediments using equilibrium passive samplers. Chemosphere, 2008, 72, 1581-1587.	8.2	72
26	Ambient Gas/Particle Partitioning. 2: The Influence of Particle Source and Temperature on Sorption to Dry Terrestrial Aerosols. Environmental Science & Technology, 2008, 42, 5951-5957.	10.0	71
27	Ranking REACH registered neutral, ionizable and ionic organic chemicals based on their aquatic persistency and mobility. Environmental Sciences: Processes and Impacts, 2017, 19, 939-955.	3.5	69
28	Environmental occurrence of emerging and legacy brominated flame retardants near suspected sources in Norway. Science of the Total Environment, 2013, 443, 307-314.	8.0	67
29	Bisphenol A in Solid Waste Materials, Leachate Water, and Air Particles from Norwegian Waste-Handling Facilities: Presence and Partitioning Behavior. Environmental Science & Technology, 2015, 49, 7675-7683.	10.0	60
30	A synthesis of parameters related to the binding of neutral organic compounds to charcoal. Chemosphere, 2016, 144, 65-74.	8.2	56
31	Sedimentation and chronology of heavy metal pollution in Oslo harbor, Norway. Marine Pollution Bulletin, 2010, 60, 1512-1522.	5.0	51
32	Partition Behavior of Hexachlorocyclohexane Isomers. Journal of Chemical & Engineering Data, 2008, 53, 750-754.	1.9	50
33	Using REACH registration data to rank the environmental emission potential of persistent and mobile organic chemicals. Science of the Total Environment, 2018, 625, 1122-1128.	8.0	50
34	Irreversible sorption of trace concentrations of perfluorocarboxylic acids to fiber filters used for air sampling. Atmospheric Environment, 2008, 42, 6869-6872.	4.1	49
35	Presence and partitioning properties of the flame retardants pentabromotoluene, pentabromoethylbenzene and hexabromobenzene near suspected source zones in Norway. Journal of Environmental Monitoring, 2011, 13, 505-513.	2.1	48
36	Predicting Pore Water EPA-34 PAH Concentrations and Toxicity in Pyrogenic-Impacted Sediments Using Pyrene Content. Environmental Science & Technology, 2011, 45, 5139-5146.	10.0	48

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37	Could We Spare a Moment of the Spotlight for Persistent, Water-Soluble Polymers?. Environmental Science & Technology, 2020, 54, 3-5.	10.0	47
38	Paper product production identified as the main source of per- and polyfluoroalkyl substances (PFAS) in a Norwegian lake: Source and historic emission tracking. Environmental Pollution, 2021, 273, 116259.	7.5	47
39	Ultra-Short-Chain PFASs in the Sources of German Drinking Water: Prevalent, Overlooked, Difficult to Remove, and Unregulated. Environmental Science & Technology, 2022, 56, 6380-6390.	10.0	46
40	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. Environmental Science & Technology, 2016, 50, 11797-11805.	10.0	45
41	Comparison of polycyclic aromatic hydrocarbon uptake pathways and risk assessment of vegetables from waste-water irrigated areas in northern China. Journal of Environmental Monitoring, 2011, 13, 433-439.	2.1	44
42	Ambient Gas/Particle Partitioning. 3. Estimating Partition Coefficients of Apolar, Polar, and Ionizable Organic Compounds by Their Molecular Structure. Environmental Science & Technology, 2009, 43, 1923-1929.	10.0	43
43	Gas/Particle Partitioning Behavior of Perfluorocarboxylic Acids with Terrestrial Aerosols. Environmental Science & Technology, 2009, 43, 8542-8547.	10.0	43
44	Leachate emissions of short- and long-chain per- and polyfluoralkyl substances (PFASs) from various Norwegian landfills. Environmental Sciences: Processes and Impacts, 2019, 21, 1970-1979.	3.5	43
45	Review of polyoxymethylene passive sampling methods for quantifying freely dissolved porewater concentrations of hydrophobic organic contaminants. Environmental Toxicology and Chemistry, 2015, 34, 710-720.	4.3	42
46	Kinetic accumulation processes and models for 43 micropollutants in â€œpharmaceuticalâ€•POCIS. Science of the Total Environment, 2018, 615, 197-207.	8.0	42
47	Airâ^'Water Transfer of MTBE, Its Degradation Products, and Alternative Fuel Oxygenates:Â The Role of Temperature. Environmental Science & Technology, 2004, 38, 5405-5412.	10.0	41
48	Whatâ€™s in a Name: Persistent, Mobile, and Toxic (PMT) and Very Persistent and Very Mobile (vPvM) Substances. Environmental Science & Technology, 2020, 54, 14790-14792.	10.0	41
49	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment. Environmental Science & Technology, 2022, 56, 4702-4710.	10.0	41
50	Preparation, Characterization, X-ray Crystal Structure, and Energetics of Cesium 5-Cyano-1,2,3,4-Tetrazolate:Â Cs[NCCNNNN]. Inorganic Chemistry, 2000, 39, 1840-1848.	4.0	40
51	Emerging Decontaminants. Environmental Science & Technology, 2012, 46, 4259-4260.	10.0	39
52	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. Environmental Sciences Europe, 2022, 34, .	5.5	39
53	Comment on â€œExperimental pK_a Determination for Perfluorooctanoic Acid (PFOA) and the Potential Impact of pK_a Concentration Dependence on Laboratory-Measured Partitioning Phenomena and Envrionmental Modelingâ€• Environmental Science & Technology, 2009, 43, 5150-5151.	10.0	37
54	Towards threshold-based management of freshwater ecosystems in the context of climate change. Ecological Modelling, 2015, 318, 265-274.	2.5	35

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55	The presence and partitioning behavior of flame retardants in waste, leachate, and air particles from Norwegian waste-handling facilities. Journal of Environmental Sciences, 2017, 62, 115-132.	6.1	34
56	Improving Predictability of Sediment-Porewater Partitioning Models using Trends Observed with PCB-Contaminated Field Sediments. Environmental Science & Technology, 2011, 45, 7365-7371.	10.0	33
57	Ionic Liquid Assisted Dissolution of Dissolved Organic Matter and PAHs from Soil Below the Critical Micelle Concentration. Environmental Science & Technology, 2013, 47, 6951-6958.	10.0	33
58	Microplastic accumulation by tube-dwelling, suspension feeding polychaetes from the sediment surface: A case study from the Norwegian Continental Shelf. Marine Environmental Research, 2020, 161, 105073.	2.5	32
59	The role of crystallinity and particle morphology on the sorption of dibutyl phthalate on polyethylene microplastics: Implications for the behavior of phthalate plastic additives. Environmental Pollution, 2021, 283, 117393.	7.5	32
60	Equilibrium sorption of gaseous organic chemicals to fiber filters used for aerosol studies. Atmospheric Environment, 2007, 41, 8241-8252.	4.1	31
61	Influence of historical industrial epochs on pore water and partitioning profiles of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in Oslo Harbor, Norway, sediment cores. Environmental Toxicology and Chemistry, 2011, 30, 843-851.	4.3	30
62	Moving forward in microplastic research: A Norwegian perspective. Environment International, 2021, 157, 106794.	10.0	29
63	Sorption of the monoterpenes Î±-pinene and limonene to carbonaceous geosorbents including biochar. Chemosphere, 2015, 119, 881-888.	8.2	28
64	The distribution dynamics and desorption behaviour of mobile pharmaceuticals and caffeine to combined sewer sediments. Water Research, 2017, 108, 57-67.	11.3	28
65	Determination of polyoxymethylene (POM) â€“ water partition coefficients for oxy-PAHs and PAHs. Chemosphere, 2015, 119, 1268-1274.	8.2	27
66	The Need to Adopt an International PMT Strategy to Protect Drinking Water Resources. Environmental Science & Technology, 2020, 54, 11651-11653.	10.0	27
67	Effects of leachates from UV-weathered microplastic on the microalgae Scenedesmus vacuolatus. Analytical and Bioanalytical Chemistry, 2022, 414, 1469-1479.	3.7	24
68	Nonadditive effects in the partitioning behavior of various aliphatic and aromatic molecules. Environmental Toxicology and Chemistry, 2009, 28, 52-60.	4.3	23
69	Sorption and desorption of diverse contaminants of varying polarity in wastewater sludge with and without alum. Environmental Sciences: Processes and Impacts, 2015, 17, 674-682.	3.5	23
70	The mass flow and proposed management of bisphenol A in selected Norwegian waste streams. Waste Management, 2017, 60, 775-785.	7.4	23
71	The Fate and Transport of Chlorinated Polyfluorinated Ether Sulfonates and Other PFAS through Industrial Wastewater Treatment Facilities in China. Environmental Science & Technology, 2022, 56, 3002-3010.	10.0	23
72	EVALUATION OF A PREDICTIVE MODEL FOR AIR/SURFACE ADSORPTION EQUILIBRIUM CONSTANTS AND ENTHALPIES. Environmental Toxicology and Chemistry, 2006, 25, 45.	4.3	22

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73	Comment on â€œPartition Coefficients of Organic Contaminants with Carbohydratesâ€• Environmental Science & Technology, 2011, 45, 1158-1158.	10.0	21
74	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. Marine Environmental Research, 2020, 161, 105080.	2.5	21
75	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. Science of the Total Environment, 2021, 794, 148763.	8.0	20
76	The distribution of persistent, mobile and toxic (PMT) pharmaceuticals and personal care products monitored across Chinese water resources. Journal of Hazardous Materials Letters, 2021, 2, 100026.	3.6	19
77	More of EPAâ€™s SPARC Online Calculatorâ€”The Need for High-Quality Predictions of Chemical Properties. Environmental Science & Technology, 2010, 44, 4400-4401.	10.0	18
78	Research on the relationship between urban form and urban smog in China. Environment and Planning B: Urban Analytics and City Science, 2017, 44, 328-342.	2.0	18
79	Aerosolâ€“Water Distribution of PCDD/Fs and PCBs in the Baltic Sea Region. Environmental Science & Technology, 2013, 47, 781-789.	10.0	17
80	The presence and leachability of antimony in different wastes and waste handling facilities in Norway. Environmental Sciences: Processes and Impacts, 2015, 17, 1880-1891.	3.5	17
81	Combining in Silico Tools with Multicriteria Analysis for Alternatives Assessment of Hazardous Chemicals: A Case Study of Decabromodiphenyl Ether Alternatives. Environmental Science & Technology, 2019, 53, 6341-6351.	10.0	17
82	Relevance of 1,2,5,6,9,10-hexabromocyclododecane diastereomer structure on partitioning properties, column-retention and clean-up procedures. Journal of Chromatography A, 2010, 1217, 1441-1446.	3.7	16
83	The presence, emission and partitioning behavior of polychlorinated biphenyls in waste, leachate and aerosols from Norwegian waste-handling facilities. Science of the Total Environment, 2020, 715, 136824.	8.0	16
84	When will the TBT go away? Integrating monitoring and modelling to address TBT's delayed disappearance in the Drammensfjord, Norway. Water Research, 2014, 65, 213-223.	11.3	14
85	Determination of ambient gas-particle partitioning constants of non-polar and polar organic compounds using inverse gas chromatography. Atmospheric Environment, 2008, 42, 303-312.	4.1	13
86	Limited mobility of dioxins near San Jacinto super fund site (waste pit) in the Houston Ship Channel, Texas due to strong sediment sorption. Environmental Pollution, 2018, 238, 988-998.	7.5	13
87	Predicting Methyltert-Butyl Ether,tert-Butyl Formate, andtert-Butyl Alcohol Levels in the Environment Using the Fugacity Approach. Environmental Science & Technology, 2005, 39, 3237-3244.	10.0	12
88	Combining In Silico Tools with Multicriteria Analysis for Alternatives Assessment of Hazardous Chemicals: Accounting for the Transformation Products of decaBDE and Its Alternatives. Environmental Science & Technology, 2021, 55, 1088-1098.	10.0	10
89	How do different nitrogen application levels and irrigation practices impact biological nitrogen fixation and its distribution in paddy system?. Plant and Soil, 2021, 467, 329-344.	3.7	9
90	The degradation behaviour of nine diverse contaminants in urban surface water and wastewater prior to water treatment. Environmental Sciences: Processes and Impacts, 2015, 17, 2051-2065.	3.5	8

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91	Occurrence and sorption behaviour of bisphenols and benzophenone UV-filters in e-waste plastic and vehicle fluff. Journal of Hazardous Materials, 2022, 426, 127814.	12.4	8
92	Response to Comment on â€œIrreversible sorption of trace concentrations of perfluorocarboxylic acids to fiber filters used for air samplingâ€•by Arp and Goss (Atmospheric Environment 42, 6869â€“6872, 2008). Atmospheric Environment, 2009, 43, 3654-3655.	4.1	7
93	Effects of Organic Carbon Origin on Hydrophobic Organic Contaminant Fate in the Baltic Sea. Environmental Science & Technology, 2021, 55, 13061-13071.	10.0	7
94	Roads with underlying tar asphalt - spreading, bioavailability and toxicity of their polycyclic aromatic hydrocarbons. Environmental Pollution, 2021, 289, 117828.	7.5	7
95	Towards improved characterization of the fate and impact of hydraulic fracturing chemicals to better secure regional water quality. Environmental Sciences: Processes and Impacts, 2022, 24, 497-503.	3.5	7
96	Preventing brominated flame retardants from occurring in recycled expanded polystyrene: comparing Norwegian visual sorting with advanced screening methods. Journal of Hazardous Materials Letters, 2021, 2, 100016.	3.6	5
97	Comment on â€œAssessment of PDMS-Water Partition Coefficients: Implications for Passive Environmental Sampling of Hydrophobic Compoundsâ€• Environmental Science & Technology, 2010, 44, 8787-8788.	10.0	4
98	Response to Comment on â€œMore of EPAâ€™s SPARC Online Calculatorâ€”The Need for High Quality Predictions of Chemical Propertiesâ€• Environmental Science & Technology, 2010, 44, 7746-7747.	10.0	3
99	Comment on â€œModel for the adsorption of organic compounds at gasâ€“water interfacesâ€•by C. F. Poole, JEM, 2005, 7, 577. Journal of Environmental Monitoring, 2005, 7, 1105.	2.1	2
100	Editorial: Plastics in the Environment: Understanding Impacts and Identifying Solutions. Frontiers in Environmental Science, 2021, 9, .	3.3	1