

Cary T Chiou

List of Publications by Year in descending order

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68
papers

11,100
citations

66315

42
h-index

98753

67
g-index

72
all docs

72
docs citations

72
times ranked

6026
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved prediction of the bioconcentration factors of organic contaminants from soils into plant/crop roots by related physicochemical parameters. <i>Environment International</i> , 2019, 126, 46-53.	4.8	36
2	Determination of the Henry's law constants of low-volatility compounds via the measured air-phase transfer coefficients. <i>Water Research</i> , 2017, 120, 238-244.	5.3	10
3	Theoretical Considerations of the Partition Uptake of Nonionic Organic Compounds by Soil Organic Matter. <i>SSSA Special Publication Series</i> , 2015, , 1-29.	0.2	58
4	Roles of Organic Matter, Minerals, and Moisture in Sorption of Nonionic Compounds and Pesticides by Soil. , 2015, , 111-160.		8
5	Resolution of Adsorption and Partition Components of Organic Compounds on Black Carbons. <i>Environmental Science & Technology</i> , 2015, 49, 9116-9123.	4.6	48
6	Lipidâ€“water partition coefficients and correlations with uptakes by algae of organic compounds. <i>Journal of Hazardous Materials</i> , 2014, 279, 197-202.	6.5	22
7	Solution Models for Binary Components of Significantly Different Molecular Sizes. <i>Journal of Solution Chemistry</i> , 2013, 42, 1438-1451.	0.6	3
8	Fast and Slow Rates of Naphthalene Sorption to Biochars Produced at Different Temperatures. <i>Environmental Science & Technology</i> , 2012, 46, 11104-11111.	4.6	269
9	On the use of a freeze-dried versus an air-dried soil humic acid as a surrogate of soil organic matter for contaminant sorption. <i>Environmental Pollution</i> , 2012, 160, 125-129.	3.7	7
10	Reply to Comment on â€œPartition Coefficients of Organic Contaminants with Carbohydratesâ€œ. <i>Environmental Science & Technology</i> , 2011, 45, 1159-1159.	4.6	0
11	Selected Veterinary Pharmaceuticals in Agricultural Water and Soil from Land Application of Animal Manure. <i>Journal of Environmental Quality</i> , 2010, 39, 1211-1217.	1.0	58
12	Adsorption of arsenic(V) by iron-oxide-coated diatomite (IOCD). <i>Environmental Science and Pollution Research</i> , 2010, 17, 1401-1410.	2.7	51
13	Partition Coefficients of Organic Contaminants with Carbohydrates. <i>Environmental Science & Technology</i> , 2010, 44, 5430-5436.	4.6	39
14	The organic contamination level based on the total soil mass is not a proper index of the soil contamination intensity. <i>Environmental Pollution</i> , 2009, 157, 2928-2932.	3.7	16
15	Linear Adsorption of Nonionic Organic Compounds from Water onto Hydrophilic Minerals:Â Silica and Alumina. <i>Environmental Science & Technology</i> , 2006, 40, 6949-6954.	4.6	53
16	Relation of Organic Contaminant Equilibrium Sorption and Kinetic Uptake in Plants. <i>Environmental Science & Technology</i> , 2005, 39, 4864-4870.	4.6	147
17	Improved Prediction of Octanolâ€“Water Partition Coefficients from Liquidâ€“Solute Water Solubilities and Molar Volumes. <i>Environmental Science & Technology</i> , 2005, 39, 8840-8846.	4.6	51
18	Evaluating phenanthrene sorption on various wood chars. <i>Water Research</i> , 2005, 39, 549-558.	5.3	104

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19	Sorption of Aromatic Organic Pollutants to Grasses from Water. <i>Environmental Science & Technology</i> , 2005, 39, 8369-8373.	4.6	45
20	Compositions and Sorptive Properties of Crop Residue-Derived Chars. <i>Environmental Science & Technology</i> , 2004, 38, 4649-4655.	4.6	904
21	Turbulence Effects on Volatilization Rates of Liquids and Solutes. <i>Environmental Science & Technology</i> , 2004, 38, 4327-4333.	4.6	23
22	Evaluation of Current Techniques for Isolation of Chars as Natural Adsorbents. <i>Environmental Science & Technology</i> , 2004, 38, 4227-4232.	4.6	31
23	Interactions of Organic Contaminants with Mineral-Adsorbed Surfactants. <i>Environmental Science & Technology</i> , 2003, 37, 4001-4006.	4.6	133
24	A Partition-Limited Model for the Plant Uptake of Organic Contaminants from Soil and Water. <i>Environmental Science & Technology</i> , 2001, 35, 1437-1444.	4.6	305
25	Influence of a Nonionic Surfactant (Triton X-100) on Contaminant Distribution between Water and Several Soil Solids. <i>Journal of Colloid and Interface Science</i> , 2000, 229, 445-452.	5.0	77
26	Sorption of Selected Organic Compounds from Water to a Peat Soil and Its Humic-Acid and Humin Fractions: A Potential Source of the Sorption Nonlinearity. <i>Environmental Science & Technology</i> , 2000, 34, 1254-1258.	4.6	254
27	Correlation of Soil and Sediment Organic Matter Polarity to Aqueous Sorption of Nonionic Compounds. <i>Environmental Science & Technology</i> , 1999, 33, 2053-2056.	4.6	125
28	Deviations from Sorption Linearity on Soils of Polar and Nonpolar Organic Compounds at Low Relative Concentrations. <i>Environmental Science & Technology</i> , 1998, 32, 338-343.	4.6	255
29	Partition Characteristics of Polycyclic Aromatic Hydrocarbons on Soils and Sediments. <i>Environmental Science & Technology</i> , 1998, 32, 264-269.	4.6	534
30	Effects of Exchanged Cation and Layer Charge on the Sorption of Water and EGME Vapors on Montmorillonite Clays. <i>Clays and Clay Minerals</i> , 1997, 45, 867-880.	0.6	116
31	Effects of Exchanged Cation on the Microporosity of Montmorillonite. <i>Clays and Clay Minerals</i> , 1997, 45, 534-543.	0.6	116
32	Partition of Nonpolar Organic Pollutants from Water to Soil and Sediment Organic Matters. <i>Environmental Science & Technology</i> , 1995, 29, 1401-1406.	4.6	239
33	Comment on "Thermodynamics of Organic Chemical Partition in Soils". <i>Environmental Science & Technology</i> , 1995, 29, 1421-1422.	4.6	33
34	Welded tuff porosity characterization using mercury intrusion, nitrogen and ethylene glycol monoethyl ether sorption and epifluorescence microscopy. <i>Applied Geochemistry</i> , 1994, 9, 491-499.	1.4	6
35	Effects of Polar and Nonpolar Groups on the Solubility of Organic Compounds in Soil Organic Matter. <i>Environmental Science & Technology</i> , 1994, 28, 1139-1144.	4.6	74
36	Sorption of nitrogen and ethylene glycol monoethyl ether (EGME) vapors on some soils, clays, and mineral oxides and determination of sample surface areas by use of sorption data. <i>Environmental Science & Technology</i> , 1993, 27, 1587-1594.	4.6	81

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37	Correspondence. Reply to comment on "The surface area of soil organic matter". Environmental Science & Technology, 1992, 26, 404-406.	4.6	17
38	Influence of soil organic matter composition on the partition of organic compounds. Environmental Science & Technology, 1992, 26, 336-340.	4.6	273
39	Effect of water saturation in soil organic matter on the partition of organic compounds. Environmental Science & Technology, 1992, 26, 965-970.	4.6	83
40	The neutral oil in commercial linear alkylbenzenesulfonate and its effect on organic solute solubility in water. Environmental Science & Technology, 1991, 25, 660-665.	4.6	19
41	Adsorption of Benzene, Toluene, and Xylene by Two Tetramethylammonium-Smectites Having Different Charge Densities. Clays and Clay Minerals, 1990, 38, 113-120.	0.6	232
42	Effect of some petroleum sulfonate surfactants on the apparent water solubility of organic compounds. Environmental Science & Technology, 1990, 24, 205-208.	4.6	44
43	Comment on "Temperature dependence of the aqueous solubilities of highly chlorinated dibenzo-p-dioxins". Environmental Science & Technology, 1990, 24, 1755-1756.	4.6	3
44	Effect of soil moisture on the sorption of trichloroethene vapor to vadose-zone soil at Picatinny Arsenal, New Jersey. Environmental Science & Technology, 1990, 24, 676-683.	4.6	96
45	The surface area of soil organic matter. Environmental Science & Technology, 1990, 24, 1164-1166.	4.6	115
46	Effect of ten quaternary ammonium cations on tetrachloromethane sorption to clay from water. Environmental Science & Technology, 1990, 24, 1167-1172.	4.6	281
47	Water solubility enhancements of DDT and trichlorobenzene by some surfactants below and above the critical micelle concentration. Environmental Science & Technology, 1989, 23, 832-838.	4.6	468
48	Shape-selective adsorption of aromatic molecules from water by tetramethylammonium smectite. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 2953.	1.0	150
49	Sorption of vapors of some organic liquids on soil humic acid and its relation to partitioning of organic compounds in soil organic matter. Environmental Science & Technology, 1988, 22, 298-303.	4.6	79
50	Sorption Characteristics of Organic Compounds on hexadecyltrimethylammonium smectite. Soil Science Society of America Journal, 1988, 52, 652-657.	1.2	403
51	Water-Solubility Enhancement of Nonionic Organic Contaminants. Advances in Chemistry Series, 1988, , 131-157.	0.6	14
52	Partition of Nonionic Organic Compounds in Aquatic Systems. Reviews of Environmental Contamination and Toxicology, 1988, , 127-151.	0.7	11
53	A comparison of water solubility enhancements of organic solutes by aquatic humic materials and commercial humic acids. Environmental Science & Technology, 1987, 21, 1231-1234.	4.6	348
54	Application of the Flory-Huggins theory to the solubility of solids in glyceryl trioleate. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 243.	1.0	21

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55	Water solubility enhancement of some organic pollutants and pesticides by dissolved humic and fulvic acids. <i>Environmental Science & Technology</i> , 1986, 20, 502-508.	4.6	960
56	Partition coefficients of organic compounds in lipid-water systems and correlations with fish bioconcentration factors. <i>Environmental Science & Technology</i> , 1985, 19, 57-62.	4.6	323
57	Soil sorption of organic vapors and effects of humidity on sorptive mechanism and capacity. <i>Environmental Science & Technology</i> , 1985, 19, 1196-1200.	4.6	309
58	Mechanistic roles of soil humus and minerals in the sorption of nonionic organic compounds from aqueous and organic solutions. <i>Organic Geochemistry</i> , 1985, 8, 9-14.	0.9	148
59	Reply to comments by MacIntyre and Smith on: Partition equilibria of nonionic organic compounds between soil-organic matter and water. <i>Environmental Science & Technology</i> , 1984, 18, 295-297.	4.6	33
60	Partition equilibria of nonionic organic compounds between soil organic matter and water. <i>Environmental Science & Technology</i> , 1983, 17, 227-231.	4.6	930
61	Partitioning of organic compounds in octanol-water systems. <i>Environmental Science & Technology</i> , 1982, 16, 4-10.	4.6	342
62	Partition Coefficient and Water Solubility in Environmental Chemistry. , 1981, , 117-153.		28
63	<i>Response</i> : Soil-Water Equilibria for Nonionic Organic Compounds. <i>Science</i> , 1981, 213, 684-684.	6.0	4
64	Evaporation of components from a miscible solution. <i>Environment International</i> , 1980, 4, 15-19.	4.8	3
65	Evaporation of solutes from water. <i>Environment International</i> , 1980, 3, 231-236.	4.8	44
66	On the validity of the codistillation model for the evaporation of pesticides and other solutes from water solution. <i>Environmental Science & Technology</i> , 1980, 14, 1253-1254.	4.6	6
67	Partition coefficient and bioaccumulation of selected organic chemicals. <i>Environmental Science & Technology</i> , 1977, 11, 1220-1220.	4.6	284
68	Partition coefficient and bioaccumulation of selected organic chemicals. <i>Environmental Science & Technology</i> , 1977, 11, 475-478.	4.6	534