

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	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
2	Partition equilibriums of nonionic organic compounds between soil organic matter and water. <i>Environmental Science & Technology</i> , 1983, 17, 227-231.	4.6	930
3	Compositions and Sorptive Properties of Crop Residue-Derived Chars. <i>Environmental Science & Technology</i> , 2004, 38, 4649-4655.	4.6	904
4	Partition coefficient and bioaccumulation of selected organic chemicals. <i>Environmental Science & Technology</i> , 1977, 11, 475-478.	4.6	534
5	Partition Characteristics of Polycyclic Aromatic Hydrocarbons on Soils and Sediments. <i>Environmental Science & Technology</i> , 1998, 32, 264-269.	4.6	534
6	Water solubility enhancements of DDT and trichlorobenzene by some surfactants below and above the critical micelle concentration. <i>Environmental Science & Technology</i> , 1989, 23, 832-838.	4.6	468
7	Sorption Characteristics of Organic Compounds on hexadecyltrimethylammonium- Smectite . <i>Soil Science Society of America Journal</i> , 1988, 52, 652-657.	1.2	403
8	A comparison of water solubility enhancements of organic solutes by aquatic humic materials and commercial humic acids. <i>Environmental Science & Technology</i> , 1987, 21, 1231-1234.	4.6	348
9	Partitioning of organic compounds in octanol-water systems. <i>Environmental Science & Technology</i> , 1982, 16, 4-10.	4.6	342
10	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
11	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
12	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
13	Partition coefficient and bioaccumulation of selected organic chemicals. <i>Environmental Science & Technology</i> , 1977, 11, 1220-1220.	4.6	284
14	Effect of ten quaternary ammonium cations on tetrachloromethane sorption to clay from water. <i>Environmental Science & Technology</i> , 1990, 24, 1167-1172.	4.6	281
15	Influence of soil organic matter composition on the partition of organic compounds. <i>Environmental Science & Technology</i> , 1992, 26, 336-340.	4.6	273
16	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
17	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
18	Sorption of Selected Organic Compounds from Water to a Peat Soil and Its Humic-Acid and Humin Fractions: A Potential Sources of the Sorption Nonlinearity. <i>Environmental Science & Technology</i> , 2000, 34, 1254-1258.	4.6	254

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19	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
20	Adsorption of Benzene, Toluene, and Xylene by Two Tetramethylammonium-Smectites Having Different Charge Densities. <i>Clays and Clay Minerals</i> , 1990, 38, 113-120.	0.6	232
21	Shape-selective adsorption of aromatic molecules from water by tetramethylammonium smectite. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 2953.	1.0	150
22	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
23	Relation of Organic Contaminant Equilibrium Sorption and Kinetic Uptake in Plants. <i>Environmental Science & Technology</i> , 2005, 39, 4864-4870.	4.6	147
24	Interactions of Organic Contaminants with Mineral-Adsorbed Surfactants. <i>Environmental Science & Technology</i> , 2003, 37, 4001-4006.	4.6	133
25	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
26	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
27	Effects of Exchanged Cation on the Microporosity of Montmorillonite. <i>Clays and Clay Minerals</i> , 1997, 45, 534-543.	0.6	116
28	The surface area of soil organic matter. <i>Environmental Science & Technology</i> , 1990, 24, 1164-1166.	4.6	115
29	Evaluating phenanthrene sorption on various wood chars. <i>Water Research</i> , 2005, 39, 549-558.	5.3	104
30	Effect of soil moisture on the sorption of trichloroethene vapor to vadose-zone soil at Picatinny Arsenal, New Jersey. <i>Environmental Science & Technology</i> , 1990, 24, 676-683.	4.6	96
31	Effect of water saturation in soil organic matter on the partition of organic compounds. <i>Environmental Science & Technology</i> , 1992, 26, 965-970.	4.6	83
32	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
33	Sorption of vapors of some organic liquids on soil humic acid and its relation to partitioning of organic compounds in soil organic matter. <i>Environmental Science & Technology</i> , 1988, 22, 298-303.	4.6	79
34	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
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	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

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37	Theoretical Considerations of the Partition Uptake of Nonionic Organic Compounds by Soil Organic Matter. SSSA Special Publication Series, 2015, , 1-29.	0.2	58
38	Linear Adsorption of Nonionic Organic Compounds from Water onto Hydrophilic Minerals: Silica and Alumina. Environmental Science & Technology, 2006, 40, 6949-6954.	4.6	53
39	Improved Prediction of Octanol-Water Partition Coefficients from Liquid-Solute Water Solubilities and Molar Volumes. Environmental Science & Technology, 2005, 39, 8840-8846.	4.6	51
40	Adsorption of arsenic(V) by iron-oxide-coated diatomite (IOCD). Environmental Science and Pollution Research, 2010, 17, 1401-1410.	2.7	51
41	Resolution of Adsorption and Partition Components of Organic Compounds on Black Carbons. Environmental Science & Technology, 2015, 49, 9116-9123.	4.6	48
42	Sorption of Aromatic Organic Pollutants to Grasses from Water. Environmental Science & Technology, 2005, 39, 8369-8373.	4.6	45
43	Evaporation of solutes from water. Environment International, 1980, 3, 231-236.	4.8	44
44	Effect of some petroleum sulfonate surfactants on the apparent water solubility of organic compounds. Environmental Science & Technology, 1990, 24, 205-208.	4.6	44
45	Partition Coefficients of Organic Contaminants with Carbohydrates. Environmental Science & Technology, 2010, 44, 5430-5436.	4.6	39
46	Improved prediction of the bioconcentration factors of organic contaminants from soils into plant/crop roots by related physicochemical parameters. Environment International, 2019, 126, 46-53.	4.8	36
47	Reply to comments by MacIntyre and Smith on: Partition equilibria of nonionic organic compounds between soil-organic matter and water. Environmental Science & Technology, 1984, 18, 295-297.	4.6	33
48	Comment on "Thermodynamics of Organic Chemical Partition in Soils". Environmental Science & Technology, 1995, 29, 1421-1422.	4.6	33
49	Evaluation of Current Techniques for Isolation of Chars as Natural Adsorbents. Environmental Science & Technology, 2004, 38, 4227-4232.	4.6	31
50	Partition Coefficient and Water Solubility in Environmental Chemistry. , 1981, , 117-153.		28
51	Turbulence Effects on Volatilization Rates of Liquids and Solutes. Environmental Science & Technology, 2004, 38, 4327-4333.	4.6	23
52	Lipid-water partition coefficients and correlations with uptakes by algae of organic compounds. Journal of Hazardous Materials, 2014, 279, 197-202.	6.5	22
53	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
54	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

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55	Correspondence. Reply to comment on "The surface area of soil organic matter". Environmental Science & Technology, 1992, 26, 404-406.	4.6	17
56	The organic contamination level based on the total soil mass is not a proper index of the soil contamination intensity. Environmental Pollution, 2009, 157, 2928-2932.	3.7	16
57	Water-Solubility Enhancement of Nonionic Organic Contaminants. Advances in Chemistry Series, 1988, , 131-157.	0.6	14
58	Partition of Nonionic Organic Compounds in Aquatic Systems. Reviews of Environmental Contamination and Toxicology, 1988, , 127-151.	0.7	11
59	Determination of the Henry's law constants of low-volatility compounds via the measured air-phase transfer coefficients. Water Research, 2017, 120, 238-244.	5.3	10
60	Roles of Organic Matter, Minerals, and Moisture in Sorption of Nonionic Compounds and Pesticides by Soil. , 2015, , 111-160.		8
61	On the use of a freeze-dried versus an air-dried soil humic acid as a surrogate of soil organic matter for contaminant sorption. Environmental Pollution, 2012, 160, 125-129.	3.7	7
62	On the validity of the codistillation model for the evaporation of pesticides and other solutes from water solution. Environmental Science & Technology, 1980, 14, 1253-1254.	4.6	6
63	Welded tuff porosity characterization using mercury intrusion, nitrogen and ethylene glycol monoethyl ether sorption and epifluorescence microscopy. Applied Geochemistry, 1994, 9, 491-499.	1.4	6
64	<i>Response</i> : Soil-Water Equilibria for Nonionic Organic Compounds. Science, 1981, 213, 684-684.	6.0	4
65	Evaporation of components from a miscible solution. Environment International, 1980, 4, 15-19.	4.8	3
66	Comment on "Temperature dependence of the aqueous solubilities of highly chlorinated dibenzo-p-dioxins". Environmental Science & Technology, 1990, 24, 1755-1756.	4.6	3
67	Solution Models for Binary Components of Significantly Different Molecular Sizes. Journal of Solution Chemistry, 2013, 42, 1438-1451.	0.6	3
68	Reply to Comment on "Partition Coefficients of Organic Contaminants with Carbohydrates". Environmental Science & Technology, 2011, 45, 1159-1159.	4.6	0