

# Richard G Luthy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11823254/publications.pdf>

Version: 2024-02-01

99  
papers

10,871  
citations

39113

52  
h-index

40945

97  
g-index

100  
all docs

100  
docs citations

100  
times ranked

7269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophilic trace organic contaminants in urban stormwater: occurrence, toxicological relevance, and the need to enhance green stormwater infrastructure. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 15-44.	1.2	66
2	Bioturbation facilitates DDT sequestration by activated carbon against recontamination by sediment deposition. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2013-2021.	2.2	9
3	Assessment of hydrophobic organic contaminant availability in sediments after sorbent amendment and its complete removal. <i>Environmental Pollution</i> , 2017, 231, 1380-1387.	3.7	5
4	Competing mechanisms for perfluoroalkyl acid accumulation in plants revealed using an <i>Arabidopsis</i> model system. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1138-1147.	2.2	59
5	Measuring and Modeling Organochlorine Pesticide Response to Activated Carbon Amendment in Tidal Sediment Mesocosms. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4769-4777.	4.6	9
6	Decision-making framework for the application of in-situ activated carbon amendment to sediment. <i>Journal of Hazardous Materials</i> , 2016, 306, 184-192.	6.5	6
7	Performance of retrievable activated carbons to treat sediment contaminated with polycyclic aromatic hydrocarbons. <i>Journal of Hazardous Materials</i> , 2016, 320, 359-367.	6.5	17
8	Predicted effectiveness of in-situ activated carbon amendment for field sediment sites with variable site- and compound-specific characteristics. <i>Journal of Hazardous Materials</i> , 2016, 301, 424-432.	6.5	8
9	Secondary environmental impacts of remedial alternatives for sediment contaminated with hydrophobic organic contaminants. <i>Journal of Hazardous Materials</i> , 2016, 304, 352-359.	6.5	23
10	In situ sediment treatment using activated carbon: A demonstrated sediment cleanup technology. <i>Integrated Environmental Assessment and Management</i> , 2015, 11, 195-207.	1.6	72
11	In Situ Sequestration of Hydrophobic Organic Contaminants in Sediments under Stagnant Contact with Activated Carbon. 2. Mass Transfer Modeling. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1843-1850.	4.6	18
12	Bioturbation Delays Attenuation of DDT by Clean Sediment Cap but Promotes Sequestration by Thin-Layered Activated Carbon. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1175-1183.	4.6	27
13	In Situ Sequestration of Hydrophobic Organic Contaminants in Sediments under Stagnant Contact with Activated Carbon. 1. Column Studies. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1835-1842.	4.6	36
14	In Situ Treatment for Control of Hydrophobic Organic Contaminants Using Sorbent Amendment: Theoretical Assessments. <i>SERDP and ESTCP Remediation Technology Monograph Series</i> , 2014, , 305-323.	0.3	2
15	Measurement and Modeling of Activated Carbon Performance for the Sequestration of Parent- and Alkylated-Polycyclic Aromatic Hydrocarbons in Petroleum-Impacted Sediments. <i>Environmental Science &amp; Technology</i> , 2013, 47, 1024-1032.	4.6	44
16	Assessment of Nontoxic, Secondary Effects of Sorbent Amendment to Sediments on the Deposit-Feeding Organism <i>Neanthes arenaceodentata</i> . <i>Environmental Science &amp; Technology</i> , 2012, 46, 4134-4141.	4.6	32
17	Sorption of Organic Compounds to Fresh and Field-Aged Activated Carbons in Soils and Sediments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 810-817.	4.6	65
18	Long-term monitoring and modeling of the mass transfer of polychlorinated biphenyls in sediment following pilot-scale in-situ amendment with activated carbon. <i>Journal of Contaminant Hydrology</i> , 2012, 129-130, 25-37.	1.6	59

#	ARTICLE	IF	CITATIONS
19	In Situ Measurement of PCB Pore Water Concentration Profiles in Activated Carbon-Amended Sediment Using Passive Samplers. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4053-4059.	4.6	82
20	In-situ Sorbent Amendments: A New Direction in Contaminated Sediment Management. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1163-1168.	4.6	333
21	Dehalogenation of Polybrominated Diphenyl Ethers and Polychlorinated Biphenyl by Bimetallic, Impregnated, and Nanoscale Zerovalent Iron. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4896-4903.	4.6	157
22	Immobilization of Hg(II) in water with polysulfide-rubber (PSR) polymer-coated activated carbon. <i>Water Research</i> , 2011, 45, 453-460.	5.3	45
23	Toward Identifying the Next Generation of Superfund and Hazardous Waste Site Contaminants. <i>Environmental Health Perspectives</i> , 2011, 119, 6-10.	2.8	24
24	Assessment of field-related influences on polychlorinated biphenyl exposures and sorbent amendment using polychaete bioassays and passive sampler measurements. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 173-180.	2.2	41
25	PCB-induced changes of a benthic community and expected ecosystem recovery following in situ sorbent amendment. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1819-1826.	2.2	19
26	Noncovalent Interactions of Long-Chain Perfluoroalkyl Acids with Serum Albumin. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5263-5269.	4.6	135
27	Polychlorinated Biphenyl Sorption and Availability in Field-Contaminated Sediments. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2809-2815.	4.6	54
28	Assessment of Advective Porewater Movement Affecting Mass Transfer of Hydrophobic Organic Contaminants in Marine Intertidal Sediment. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5842-5848.	4.6	13
29	Measurement and Modeling of Polychlorinated Biphenyl Bioaccumulation from Sediment for the Marine Polychaete <i>Neanthes arenaceodentata</i> and Response to Sorbent Amendment. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2857-2863.	4.6	66
30	Sorption of dichlorodiphenyltrichloroethane (DDT) and its metabolites by activated carbon in clean water and sediment slurries. <i>Water Research</i> , 2009, 43, 4336-4346.	5.3	95
31	Field Application of Activated Carbon Amendment for In-Situ Stabilization of Polychlorinated Biphenyls in Marine Sediment. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3815-3823.	4.6	178
32	Modeling PAH mass transfer in a slurry of contaminated soil or sediment amended with organic sorbents. <i>Water Research</i> , 2008, 42, 2931-2942.	5.3	20
33	The stability of marine sediments at a tidal basin in San Francisco Bay amended with activated carbon for sequestration of organic contaminants. <i>Water Research</i> , 2008, 42, 4133-4145.	5.3	14
34	Measuring and modeling reduction of DDT availability to the water column and mussels following activated carbon amendment of contaminated sediment. <i>Water Research</i> , 2008, 42, 4348-4356.	5.3	38
35	Aerobic Biotransformation and Fate of <i>N</i> -Ethyl Perfluorooctane Sulfonamidoethanol ( <i>N</i> -EtFOSE) in Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2873-2878.	4.6	253
36	Field Deployment of Polyethylene Devices to Measure PCB Concentrations in Pore Water of Contaminated Sediment. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6086-6091.	4.6	90

#	ARTICLE	IF	CITATIONS
37	Biodynamic Modeling of PCB Uptake by <i>Macoma balthica</i> and <i>Corbicula fluminea</i> from Sediment Amended with Activated Carbon. <i>Environmental Science &amp; Technology</i> , 2008, 42, 484-490.	4.6	76
38	Field methods for amending marine sediment with activated carbon and assessing treatment effectiveness. <i>Marine Environmental Research</i> , 2007, 64, 541-555.	1.1	115
39	Modeling Sorption of Anionic Surfactants onto Sediment Materials: An a priori Approach for Perfluoroalkyl Surfactants and Linear Alkylbenzene Sulfonates. <i>Environmental Science &amp; Technology</i> , 2007, 41, 3254-3261.	4.6	118
40	Bioaccumulation of Perfluorochemicals in Sediments by the Aquatic Oligochaete <i>Lumbriculus variegatus</i> . <i>Environmental Science &amp; Technology</i> , 2007, 41, 4600-4606.	4.6	123
41	AVAILABILITY OF POLYCYCLIC AROMATIC HYDROCARBONS FROM LAMPBLACK-IMPACTED SOILS AT FORMER OIL-GAS PLANT SITES IN CALIFORNIA, USA. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 394.	2.2	16
42	BIOLOGICAL UPTAKE OF POLYCHLORINATED BIPHENYLS BY <i>MACOMA BALTHICA</i> FROM SEDIMENT AMENDED WITH ACTIVATED CARBON. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 980.	2.2	82
43	Activated carbon amendment as a treatment for residual ddt in sediment from a superfund site in San Francisco Bay, Richmond, California, USA. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 2143-2150.	2.2	90
44	Sorption of Perfluorinated Surfactants on Sediments. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7251-7256.	4.6	1,095
45	New Perspectives on Perfluorochemical Ecotoxicology: Inhibition and Induction of an Efflux Transporter in the Marine Mussel, <i>Mytilus californianus</i> . <i>Environmental Science &amp; Technology</i> , 2006, 40, 5580-5585.	4.6	61
46	Modeling Polychlorinated Biphenyl Mass Transfer after Amendment of Contaminated Sediment with Activated Carbon. <i>Environmental Science &amp; Technology</i> , 2006, 40, 4211-4218.	4.6	121
47	Fluorochemical Mass Flows in a Municipal Wastewater Treatment Facility. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7350-7357.	4.6	359
48	Nanometer-Scale Chemical Heterogeneities of Black Carbon Materials and Their Impacts on PCB Sorption Properties: A Soft X-ray Spectromicroscopy Study. <i>Environmental Science &amp; Technology</i> , 2006, 40, 5923-5929.	4.6	39
49	Human development is linked to multiple water body impairments along the California coast. <i>Estuaries and Coasts</i> , 2006, 29, 860-870.	1.0	27
50	Treatment and Containment of Contaminated Sediments. , 2006, , 137-178.		3
51	EFFECTS OF DOSE AND PARTICLE SIZE ON ACTIVATED CARBON TREATMENT TO SEQUESTER POLYCHLORINATED BIPHENYLS AND POLYCYCLIC AROMATIC HYDROCARBONS IN MARINE SEDIMENTS. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1594.	2.2	127
52	PHYSICOCHEMICAL CHARACTERIZATION OF COKE-PLANT SOIL FOR THE ASSESSMENT OF POLYCYCLIC AROMATIC HYDROCARBON AVAILABILITY AND THE FEASIBILITY OF PHYTOREMEDIATION. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2185.	2.2	45
53	Improving Risk Assessments for Manufactured Gas Plant Soils by Measuring PAH Availability. <i>Integrated Environmental Assessment and Management</i> , 2005, 1, 259.	1.6	9
54	Effect of Oil on Polychlorinated Biphenyl Phase Partitioning during Land Biotreatment of Impacted Sediment. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 278-286.	0.7	5

#	ARTICLE	IF	CITATIONS
55	Addition of Activated Carbon to Sediments to Reduce PCB Bioaccumulation by a Polychaete ( <i>Neanthes</i> ) Tj ETQq1 Technology, 2005, 39, 2880-2887.	1 0.784314 4.6	172
56	Response to Comment on "Addition of Carbon Sorbents to Reduce PCB and PAH Bioavailability in Marine Sediments: A Physicochemical Tests" Environmental Science & Technology, 2005, 39, 1199-1200.	4.6	3
57	The sequestration of PCBs in Lake Hartwell sediment with activated carbon. Water Research, 2005, 39, 2105-2113.	5.3	85
58	Quantitative Determination of Perfluorochemicals in Sediments and Domestic Sludge. Environmental Science & Technology, 2005, 39, 3946-3956.	4.6	494
59	Phenanthrene and Pyrene Sorption and Intraparticle Diffusion in Polyoxymethylene, Coke, and Activated Carbon. Environmental Science & Technology, 2005, 39, 6516-6526.	4.6	102
60	Thermal Program Desorption Mass Spectrometry of PAHs from Mineral and Organic Surfaces. Environmental Engineering Science, 2004, 21, 647-660.	0.8	10
61	Addition of Carbon Sorbents to Reduce PCB and PAH Bioavailability in Marine Sediments: A Physicochemical Tests. Environmental Science & Technology, 2004, 38, 5458-5464.	4.6	260
62	Effects of Particulate Carbonaceous Matter on the Bioavailability of Benzo[a]pyrene and 2,2',5,5'-Tetrachlorobiphenyl to the Clam, <i>Macoma balthica</i> . Environmental Science & Technology, 2004, 38, 4549-4556.	4.6	82
63	PCB and PAH Speciation among Particle Types in Contaminated Harbor Sediments and Effects on PAH Bioavailability. Environmental Science & Technology, 2003, 37, 2209-2217.	4.6	267
64	PAH Sorption Mechanism and Partitioning Behavior in Lampblack-Impacted Soils from Former Oil-Gas Plant Sites. Environmental Science & Technology, 2003, 37, 3625-3634.	4.6	85
65	Peer Reviewed: Contaminant Bioavailability in Soil and Sediment. Environmental Science & Technology, 2003, 37, 295A-302A.	4.6	239
66	Particle-Scale Understanding of the Bioavailability of PAHs in Sediment. Environmental Science & Technology, 2002, 36, 477-483.	4.6	149
67	Microprobe laser mass spectrometry studies of polycyclic aromatic hydrocarbon distributions on harbor sediments and coals. Israel Journal of Chemistry, 2001, 41, 105-110.	1.0	5
68	Particle-Scale Investigation of PAH Desorption Kinetics and Thermodynamics from Sediment. Environmental Science & Technology, 2001, 35, 3468-3475.	4.6	171
69	Microscale detection of polychlorinated biphenyls using two-step laser mass spectrometry. International Journal of Mass Spectrometry, 2001, 212, 41-48.	0.7	8
70	Microscale Location, Characterization, and Association of Polycyclic Aromatic Hydrocarbons on Harbor Sediment Particles. Environmental Science & Technology, 2000, 34, 1729-1736.	4.6	271
71	Direct Observation of Polycyclic Aromatic Hydrocarbons on Geosorbents at the Subparticle Scale. Environmental Science & Technology, 1999, 33, 1185-1192.	4.6	41
72	Organic Phase Resistance to Dissolution of Polycyclic Aromatic Hydrocarbon Compounds. Environmental Science & Technology, 1999, 33, 235-242.	4.6	58

#	ARTICLE	IF	CITATIONS
73	Biodegradation kinetics of naphthalene in nonaqueous phase liquid-water mixed batch systems: Comparison of model predictions and experimental results. , 1998, 57, 356-366.		21
74	Mass Transfer and Bioavailability of PAH Compounds in Coal Tar NAPL~Slurry Systems. 2. Experimental Evaluations. Environmental Science & Technology, 1997, 31, 2268-2276.	4.6	44
75	Mass Transfer and Bioavailability of PAH Compounds in Coal Tar NAPL~Slurry Systems. 1. Model Development. Environmental Science & Technology, 1997, 31, 2260-2267.	4.6	58
76	Sequestration of Hydrophobic Organic Contaminants by Geosorbents. Environmental Science & Technology, 1997, 31, 3341-3347.	4.6	923
77	Chemical Characterization of Coal Tar~Water Interfacial Films. Environmental Science & Technology, 1996, 30, 1014-1022.	4.6	51
78	Biodegradation of Naphthalene from Coal Tar and Heptamethylnonane in Mixed Batch Systems. Environmental Science & Technology, 1996, 30, 1282-1291.	4.6	98
79	Bioavailability of hydrophobic organic compounds from nonaqueous~phase liquids: The biodegradation of naphthalene from coal tar. Environmental Toxicology and Chemistry, 1996, 15, 1894-1900.	2.2	20
80	BIOAVAILABILITY OF HYDROPHOBIC ORGANIC COMPOUNDS FROM NONAQUEOUS-PHASE LIQUIDS: THE BIODEGRADATION OF NAPHTHALENE FROM COAL TAR. Environmental Toxicology and Chemistry, 1996, 15, 1894.	2.2	3
81	Surfactant Solubilization of Phenanthrene in Soil-Aqueous Systems and Its Effects on Biomineralization. Advances in Chemistry Series, 1995, , 339-361.	0.6	10
82	Concentration-Dependent Regimes in Sorption and Transport of a Nonionic Surfactant in Sand~Aqueous Systems. ACS Symposium Series, 1995, , 38-53.	0.5	3
83	Sorption and Transport Kinetics of a Nonionic Surfactant through an Aquifer Sediment. Environmental Science & Technology, 1995, 29, 1032-1042.	4.6	88
84	Experimental Data and Modeling for Surfactant Micelles, HOCs, and Soil. Journal of Environmental Engineering, ASCE, 1994, 120, 23-41.	0.7	40
85	Surfactant Solubilization of Organic Compounds in Soil/Aqueous Systems. Journal of Environmental Engineering, ASCE, 1994, 120, 5-22.	0.7	101
86	Semi-continuous evaporation model for leachate treatment process evaluation. Environmental Progress, 1994, 13, 278-289.	0.8	3
87	Semi-continuous evaporation model for leachate treatment process evaluation. Environmental Progress, 1994, 13, 278-289.	0.8	11
88	Distribution of Nonionic Surfactant and Phenanthrene in a Sediment/Aqueous System. Environmental Science & Technology, 1994, 28, 1550-1560.	4.6	175
89	Additions and Corrections: Interfacial Films in Coal Tar Nonaqueous-Phase Liquid-Water Systems. Environmental Science & Technology, 1994, 28, 756-756.	4.6	23
90	Interfacial films in coal tar nonaqueous-phase liquid-water systems. Environmental Science & Technology, 1993, 27, 2914-2918.	4.6	94

#	ARTICLE	IF	CITATIONS
91	Solubilization and Biodegradation of Hydrophobic Organic Compounds in Soil-Aqueous Systems with Nonionic Surfactants. ACS Symposium Series, 1992, , 159-168.	0.5	9
92	Effects of nonionic surfactants on the solubilization and mineralization of phenanthrene in soil-water systems. Biotechnology and Bioengineering, 1992, 40, 1367-1380.	1.7	199
93	Inhibition of phenanthrene mineralization by nonionic surfactants in soil-water systems. Environmental Science & Technology, 1991, 25, 1920-1930.	4.6	254
94	Solubilization of polycyclic aromatic hydrocarbons in micellar nonionic surfactant solutions. Environmental Science & Technology, 1991, 25, 127-133.	4.6	692
95	Surfactant Solubilization of Polycyclic Aromatic Hydrocarbon Compounds in Soil-Water Suspensions. Water Science and Technology, 1991, 23, 475-485.	1.2	128
96	Oxidation of aniline and other primary aromatic amines by manganese dioxide. Environmental Science & Technology, 1990, 24, 363-373.	4.6	309
97	Destruction of Iron-Complexed Cyanide by Alkaline Hydrolysis. Water Science and Technology, 1989, 21, 547-558.	1.2	10
98	Equilibrium adsorption of polycyclic aromatic hydrocarbons from water onto activated carbon. Environmental Science & Technology, 1984, 18, 395-403.	4.6	163
99	ESTIMATING ADSORPTION OF POLYCYCLIC AROMATIC HYDROCARBONS ON SOILS. Soil Science, 1984, 137, 292-308.	0.9	114