

Linda M Abriola

List of Publications by Year in descending order

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89
papers

4,989
citations

87888

38
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88630

70
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91
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docs citations

91
times ranked

2358
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Residual Nonaqueous-Phase Liquids (NAPLs) on the Transport and Retention of Perfluoroalkyl Substances. <i>Environmental Science & Technology</i> , 2022, 56, 7976-7985.	10.0	8
2	Effect of rhamnolipid biosurfactant on transport and retention of iron oxide nanoparticles in water-saturated quartz sand. <i>Environmental Science: Nano</i> , 2021, 8, 311-327.	4.3	6
3	Effects of rhamnolipid biosurfactant on the dissolution and transport of silver nanoparticles in porous media. <i>Environmental Science: Nano</i> , 2021, 8, 2492-2506.	4.3	2
4	Development and experimental evaluation of a mathematical model to predict polymer-enhanced nanoparticle mobility in heterogeneous formations. <i>Environmental Science: Nano</i> , 2021, 8, 470-484.	4.3	1
5	Exploration of processes governing microbial reductive dechlorination in a heterogeneous aquifer flow cell. <i>Water Research</i> , 2021, 193, 116842.	11.3	6
6	Influence of aqueous film forming foams on the solubility and mobilization of non-aqueous phase liquid contaminants in quartz sands. <i>Water Research</i> , 2021, 195, 116975.	11.3	11
7	Quantifying Impacts of Microcosm Mass Loss on Kinetic Constant Estimation. <i>Environmental Science & Technology</i> , 2021, 55, 13822-13833.	10.0	2
8	Aqueous Film-Forming Foams Exhibit Greater Interfacial Activity than PFOA, PFOS, or FOSA. <i>Environmental Science & Technology</i> , 2020, 54, 13590-13597.	10.0	22
9	Comment on "Uptake of Poly- and Perfluoroalkyl Substances at the Air-Water Interface". <i>Environmental Science & Technology</i> , 2020, 54, 7019-7020.	10.0	19
10	Subsurface Source Zone Characterization and Uncertainty Quantification Using Discriminative Random Fields. <i>Water Resources Research</i> , 2020, 56, e2019WR026481.	4.2	10
11	Development and Validation of a Two-Stage Kinetic Sorption Model for Polymer and Surfactant Transport in Porous Media. <i>Environmental Science & Technology</i> , 2020, 54, 4912-4921.	10.0	13
12	Bioenhanced back diffusion and population dynamics of <i>Dehalococcoides mccartyi</i> strains in heterogeneous porous media. <i>Chemosphere</i> , 2020, 254, 126842.	8.2	10
13	Accumulation of PFOA and PFOS at the Air-Water Interface. <i>Environmental Science and Technology Letters</i> , 2019, 6, 487-491.	8.7	120
14	Regressed Models for Multirate Mass Transfer in Heterogeneous Media. <i>Water Resources Research</i> , 2019, 55, 8646-8665.	4.2	2
15	Modeling the influence of coupled mass transfer processes on mass flux downgradient of heterogeneous DNAPL source zones. <i>Journal of Contaminant Hydrology</i> , 2018, 211, 1-14.	3.3	20
16	Modeling reactive transport of polydisperse nanoparticles: assessment of the representative particle approach. <i>Environmental Science: Nano</i> , 2018, 5, 2293-2303.	4.3	2
17	Simulation of magnetite nanoparticle mobility in a heterogeneous flow cell. <i>Environmental Science: Nano</i> , 2017, 4, 1512-1524.	4.3	8
18	The effects of substrate exposure history and carbon starvation-induced stress on the EPS synthesis of TCE degrading toluene oxidizing soil bacteria. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	3

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19	Aqueous Aggregation Behavior of Engineered Superparamagnetic Iron Oxide Nanoparticles: Effects of Oxidative Surface Aging. <i>Environmental Science & Technology</i> , 2016, 50, 12789-12798.	10.0	21
20	Influence of a polymer sunscreen additive on the transport and retention of titanium dioxide nanoparticles in water-saturated porous media. <i>Environmental Science: Nano</i> , 2016, 3, 157-168.	4.3	13
21	Improved Mobility of Magnetite Nanoparticles at High Salinity with Polymers and Surfactants. <i>Energy & Fuels</i> , 2016, 30, 1915-1926.	5.1	25
22	Markov random field models for quantifying uncertainty in subsurface remediation. , 2015, , .		1
23	Development and application of a screening model for evaluating bioenhanced dissolution in DNAPL source zones. <i>Journal of Contaminant Hydrology</i> , 2015, 183, 1-15.	3.3	1
24	On the upscaling of mass transfer rate expressions for interpretation of source zone partitioning tracer tests. <i>Water Resources Research</i> , 2015, 51, 832-847.	4.2	5
25	A multi-constituent site blocking model for nanoparticle and stabilizing agent transport in porous media. <i>Environmental Science: Nano</i> , 2015, 2, 155-166.	4.3	37
26	In situ measurement and simulation of nano-magnetite mobility in porous media subject to transient salinity. <i>Nanoscale</i> , 2015, 7, 1047-1057.	5.6	12
27	Modeling coupled nanoparticle aggregation and transport in porous media: A Lagrangian approach. <i>Journal of Contaminant Hydrology</i> , 2015, 172, 48-60.	3.3	23
28	Manifold regression for subsurface contaminant characterization based on sparse concentration data. , 2014, , .		1
29	Influence of Residual Polymer on Nanoparticle Deposition in Porous Media. <i>Environmental Science & Technology</i> , 2014, 48, 10664-10671.	10.0	32
30	Effect of surface coating composition on quantum dot mobility in porous media. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	23
31	Influence of dissolved oxygen on silver nanoparticle mobility and dissolution in water-saturated quartz sand. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	25
32	A geometric approach to joint inversion with applications to contaminant source zone characterization. <i>Inverse Problems</i> , 2013, 29, 115014.	2.0	21
33	Microbially enhanced dissolution and reductive dechlorination of PCE by a mixed culture: Model validation and sensitivity analysis. <i>Journal of Contaminant Hydrology</i> , 2013, 151, 117-130.	3.3	14
34	Manifold regression for subsurface contaminant characterization. , 2012, , .		3
35	A mixture of experts based discretization approach for characterizing subsurface contaminant source zones. , 2012, , .		1
36	Environmental Remediation and Restoration: Hydrological and Geophysical Processing Methods. <i>IEEE Signal Processing Magazine</i> , 2012, 29, 16-26.	5.6	3

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37	Enhanced Mobility of Fullerene (C ₆₀) Nanoparticles in the Presence of Stabilizing Agents. <i>Environmental Science & Technology</i> , 2012, 46, 11761-11769.	10.0	59
38	Quantification of experimental subsurface fluid saturations from high-resolution source zone images. <i>Water Resources Research</i> , 2012, 48, .	4.2	3
39	Kinetic limitations on tracer partitioning in ganglia dominated source zones. <i>Journal of Contaminant Hydrology</i> , 2011, 126, 195-207.	3.3	6
40	Predicting DNAPL mass discharge from pool-dominated source zones. <i>Journal of Contaminant Hydrology</i> , 2010, 114, 18-34.	3.3	68
41	Effectiveness of nanoscale zero-valent iron for treatment of a PCE DNAPL source zone. <i>Journal of Contaminant Hydrology</i> , 2010, 118, 128-142.	3.3	41
42	Influence of wettability variations on dynamic effects in capillary pressure. <i>Water Resources Research</i> , 2010, 46, .	4.2	41
43	The influence of dimensionality on simulations of mass recovery from nonuniform dense non-aqueous phase liquid (DNAPL) source zones. <i>Advances in Water Resources</i> , 2009, 32, 401-412.	3.8	21
44	A multistage multicriteria spatial sampling strategy for estimating contaminant mass discharge and its uncertainty. <i>Water Resources Research</i> , 2009, 45, .	4.2	13
45	Investigation of the Transport and Deposition of Fullerene (C ₆₀) Nanoparticles in Quartz Sands under Varying Flow Conditions. <i>Environmental Science & Technology</i> , 2008, 42, 7174-7180.	10.0	219
46	Transport and Retention of Nanoscale C ₆₀ Aggregates in Water-Saturated Porous Media. <i>Environmental Science & Technology</i> , 2008, 42, 3588-3594.	10.0	191
47	Experimental Evaluation and Mathematical Modeling of Microbially Enhanced Tetrachloroethene (PCE) Dissolution. <i>Environmental Science & Technology</i> , 2007, 41, 963-970.	10.0	84
48	Experimental and Numerical Validation of the Total Trapping Number for Prediction of DNAPL Mobilization. <i>Environmental Science & Technology</i> , 2007, 41, 8135-8141.	10.0	23
49	A geostatistical approach for quantification of contaminant mass discharge uncertainty using multilevel sampler measurements. <i>Water Resources Research</i> , 2007, 43, .	4.2	27
50	Modeling metabolic reductive dechlorination in dense non-aqueous phase liquid source-zones. <i>Advances in Water Resources</i> , 2007, 30, 1547-1561.	3.8	34
51	Simulation of solute transport in a heterogeneous vadose zone describing the hydraulic properties using a multistep stochastic approach. <i>Water Resources Research</i> , 2006, 42, .	4.2	17
52	Modeling dense nonaqueous phase liquid mass removal in nonuniform formations: Linking source-zone architecture and system response. , 2006, 2, 74.		38
53	Estimating mass discharge from dense nonaqueous phase liquid source zones using upscaled mass transfer coefficients: An evaluation using multiphase numerical simulations. <i>Water Resources Research</i> , 2006, 42, .	4.2	91
54	Prediction of two-phase capillary pressure-saturation relationships in fractional wettability systems. <i>Journal of Contaminant Hydrology</i> , 2005, 77, 247-270.	3.3	50

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55	Coupling Aggressive Mass Removal with Microbial Reductive Dechlorination for Remediation of DNAPL Source Zones: A Review and Assessment. <i>Environmental Health Perspectives</i> , 2005, 113, 465-477.	6.0	94
56	Guest Editorial: Contaminant Source Zones: Remediation or Perpetual Stewardship?. <i>Environmental Health Perspectives</i> , 2005, 113, A438-9.	6.0	15
57	Pilot-Scale Demonstration of Surfactant-Enhanced PCE Solubilization at the Bachman Road Site. 2. System Operation and Evaluation. <i>Environmental Science & Technology</i> , 2005, 39, 1791-1801.	10.0	76
58	Pilot-Scale Demonstration of Surfactant-Enhanced PCE Solubilization at the Bachman Road Site. 1. Site Characterization and Test Design. <i>Environmental Science & Technology</i> , 2005, 39, 1778-1790.	10.0	78
59	Compositional Effects on Interfacial Properties in Contaminated Systems: Implications for Organic Liquid Migration and Recovery. <i>ACS Symposium Series</i> , 2005, , 160-182.	0.5	1
60	Comparison of two-dimensional and three-dimensional simulations of dense nonaqueous phase liquids (DNAPLs): Migration and entrapment in a nonuniform permeability field. <i>Water Resources Research</i> , 2005, 41, .	4.2	43
61	Exploring dynamic effects in capillary pressure in multistep outflow experiments. <i>Water Resources Research</i> , 2005, 41, .	4.2	63
62	Infiltration of PCE in a system containing spatial wettability variations. <i>Journal of Contaminant Hydrology</i> , 2004, 73, 39-63.	3.3	62
63	Influence of textural and wettability variations on predictions of DNAPL persistence and plume development in saturated porous media. <i>Advances in Water Resources</i> , 2004, 27, 411-427.	3.8	47
64	Stimulated Microbial Reductive Dechlorination following Surfactant Treatment at the Bachman Road Site. <i>Environmental Science & Technology</i> , 2004, 38, 5902-5914.	10.0	60
65	Dense nonaqueous phase liquid (DNAPL) source zone characterization: Influence of hydraulic property correlation on predictions of DNAPL infiltration and entrapment. <i>Water Resources Research</i> , 2004, 40, .	4.2	47
66	Influence of hydraulic property correlation on predicted dense nonaqueous phase liquid source zone architecture, mass recovery and contaminant flux. <i>Water Resources Research</i> , 2004, 40, .	4.2	81
67	Influence of surfactant-facilitated interfacial tension reduction on chlorinated solvent migration in porous media: observations and numerical simulation. <i>Journal of Contaminant Hydrology</i> , 2003, 64, 227-252.	3.3	35
68	Entrapment and dissolution of DNAPLs in heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2003, 67, 133-157.	3.3	38
69	Surfactant enhanced recovery of tetrachloroethylene from a porous medium containing low permeability lenses. <i>Journal of Contaminant Hydrology</i> , 2001, 48, 325-350.	3.3	108
70	Surfactant enhanced recovery of tetrachloroethylene from a porous medium containing low permeability lenses. <i>Journal of Contaminant Hydrology</i> , 2001, 48, 351-374.	3.3	44
71	A Nondimensional Evaluation of Tracer Sensitivity to Density Effects. <i>Ground Water</i> , 2000, 38, 226-233.	1.3	9
72	A numerical model (MISER) for the simulation of coupled physical, chemical and biological processes in soil vapor extraction and bioventing systems. <i>Journal of Contaminant Hydrology</i> , 2000, 43, 239-270.	3.3	75

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73	The influence of field-scale heterogeneity on the surfactant-enhanced remediation of entrapped nonaqueous phase liquids. <i>Journal of Contaminant Hydrology</i> , 2000, 42, 219-251.	3.3	51
74	The influence of field-scale heterogeneity on the infiltration and entrapment of dense nonaqueous phase liquids in saturated formations. <i>Journal of Contaminant Hydrology</i> , 2000, 42, 187-218.	3.3	78
75	Influence of Soil Texture on Rate-Limited Micellar Solubilization. <i>Journal of Environmental Engineering, ASCE</i> , 2000, 126, 39-46.	1.4	10
76	The influence of capillarity in numerical modeling of organic liquid redistribution in two-phase systems. <i>Advances in Water Resources</i> , 1998, 21, 159-170.	3.8	41
77	Flow and entrapment of dense nonaqueous phase liquids in physically and chemically heterogeneous aquifer formations. <i>Advances in Water Resources</i> , 1998, 22, 117-132.	3.8	43
78	Solubilization of Dodecane, Tetrachloroethylene, and 1,2-Dichlorobenzene in Micellar Solutions of Ethoxylated Nonionic Surfactants. <i>Environmental Science & Technology</i> , 1997, 31, 1382-1389.	10.0	115
79	Influence of Viscous and Buoyancy Forces on the Mobilization of Residual Tetrachloroethylene during Surfactant Flushing. <i>Environmental Science & Technology</i> , 1996, 30, 1328-1335.	10.0	294
80	Simulation of organic liquid flow in porous media using estimated and measured transport properties. <i>Journal of Contaminant Hydrology</i> , 1996, 22, 223-239.	3.3	24
81	An Experimental Investigation of Rate-Limited Nonaqueous Phase Liquid Volatilization in Unsaturated Porous Media: Steady State Mass Transfer. <i>Water Resources Research</i> , 1995, 31, 2159-2172.	4.2	105
82	Mass conservative numerical solutions of the head-based Richards equation. <i>Water Resources Research</i> , 1994, 30, 2579-2586.	4.2	139
83	Surfactant enhanced remediation of soil columns contaminated by residual tetrachloroethylene. <i>Journal of Contaminant Hydrology</i> , 1994, 16, 35-53.	3.3	221
84	An experimental investigation of nonaqueous phase liquid dissolution in saturated subsurface systems: Transient mass transfer rates. <i>Water Resources Research</i> , 1994, 30, 321-332.	4.2	335
85	Simulation of surfactant-enhanced aquifer remediation. <i>Water Resources Research</i> , 1994, 30, 2959-2977.	4.2	104
86	Surfactant-enhanced solubilization of residual dodecane in soil columns. 1. Experimental investigation. <i>Environmental Science & Technology</i> , 1993, 27, 2332-2340.	10.0	343
87	Surfactant-enhanced solubilization of residual dodecane in soil columns. 2. Mathematical modeling. <i>Environmental Science & Technology</i> , 1993, 27, 2341-2351.	10.0	130
88	An experimental investigation of nonaqueous phase liquid dissolution in saturated subsurface systems: Steady state mass transfer rates. <i>Water Resources Research</i> , 1992, 28, 2691-2705.	4.2	359
89	Modeling Multiphase Migration of Organic Chemicals in Groundwater Systems. A Review and Assessment. <i>Environmental Health Perspectives</i> , 1989, 83, 117.	6.0	67