

Linda M Abriola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	4,297 citations	36 h-index	65 g-index
91 ext. papers	4,558 ext. citations	6.4 avg, IF	5.29 L-index

#	Paper	IF	Citations
85	Quantifying Impacts of Microcosm Mass Loss on Kinetic Constant Estimation. <i>Environmental Science & Technology</i> , 2021 , 55, 13822-13833	10.3	
84	Exploration of processes governing microbial reductive dechlorination in a heterogeneous aquifer flow cell. <i>Water Research</i> , 2021 , 193, 116842	12.5	1
83	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	12.5	6
82	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	7.1	4
81	Effects of rhamnolipid biosurfactant on the dissolution and transport of silver nanoparticles in porous media. <i>Environmental Science: Nano</i> , 2021 , 8, 2492-2506	7.1	0
80	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	7.1	1
79	Comment on "Uptake of Poly- and Perfluoroalkyl Substances at the Air-Water Interface". <i>Environmental Science & Technology</i> , 2020 , 54, 7019-7020	10.3	12
78	Subsurface Source Zone Characterization and Uncertainty Quantification Using Discriminative Random Fields. <i>Water Resources Research</i> , 2020 , 56, e2019WR026481	5.4	6
77	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	10.3	7
76	Bioenhanced back diffusion and population dynamics of <i>Dehalococcoides mccartyi</i> strains in heterogeneous porous media. <i>Chemosphere</i> , 2020 , 254, 126842	8.4	6
75	Aqueous Film-Forming Foams Exhibit Greater Interfacial Activity than PFOA, PFOS, or FOSA. <i>Environmental Science & Technology</i> , 2020 , 54, 13590-13597	10.3	9
74	Accumulation of PFOA and PFOS at the Air-Water Interface. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 487-491	11	54
73	Regressed Models for Multirate Mass Transfer in Heterogeneous Media. <i>Water Resources Research</i> , 2019 , 55, 8646-8665	5.4	0
72	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	3.9	11
71	Modeling reactive transport of polydisperse nanoparticles: assessment of the representative particle approach. <i>Environmental Science: Nano</i> , 2018 , 5, 2293-2303	7.1	2
70	Simulation of magnetite nanoparticle mobility in a heterogeneous flow cell. <i>Environmental Science: Nano</i> , 2017 , 4, 1512-1524	7.1	5
69	Aqueous Aggregation Behavior of Engineered Superparamagnetic Iron Oxide Nanoparticles: Effects of Oxidative Surface Aging. <i>Environmental Science & Technology</i> , 2016 , 50, 12789-12798	10.3	15

68	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	7.1	12
67	Improved Mobility of Magnetite Nanoparticles at High Salinity with Polymers and Surfactants. <i>Energy & Fuels</i> , 2016 , 30, 1915-1926	4.1	16
66	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	2.9	3
65	A multi-constituent site blocking model for nanoparticle and stabilizing agent transport in porous media. <i>Environmental Science: Nano</i> , 2015 , 2, 155-166	7.1	31
64	In situ measurement and simulation of nano-magnetite mobility in porous media subject to transient salinity. <i>Nanoscale</i> , 2015 , 7, 1047-57	7.7	11
63	Modeling coupled nanoparticle aggregation and transport in porous media: a Lagrangian approach. <i>Journal of Contaminant Hydrology</i> , 2015 , 172, 48-60	3.9	18
62	Markov random field models for quantifying uncertainty in subsurface remediation 2015 ,		1
61	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	3.9	1
60	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	5.4	4
59	Influence of residual polymer on nanoparticle deposition in porous media. <i>Environmental Science & Technology</i> , 2014 , 48, 10664-71	10.3	28
58	Effect of surface coating composition on quantum dot mobility in porous media. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	21
57	Influence of dissolved oxygen on silver nanoparticle mobility and dissolution in water-saturated quartz sand. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	22
56	A geometric approach to joint inversion with applications to contaminant source zone characterization. <i>Inverse Problems</i> , 2013 , 29, 115014	2.3	17
55	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, 117-30	3.9	13
54	Environmental Remediation and Restoration: Hydrological and Geophysical Processing Methods. <i>IEEE Signal Processing Magazine</i> , 2012 , 29, 16-26	9.4	3
53	Enhanced mobility of fullerene (C60) nanoparticles in the presence of stabilizing agents. <i>Environmental Science & Technology</i> , 2012 , 46, 11761-9	10.3	54
52	Quantification of experimental subsurface fluid saturations from high-resolution source zone images. <i>Water Resources Research</i> , 2012 , 48,	5.4	3
51	Manifold regression for subsurface contaminant characterization 2012 ,		1

50	Kinetic limitations on tracer partitioning in ganglia dominated source zones. <i>Journal of Contaminant Hydrology</i> , 2011 , 126, 195-207	3.9	4
49	Influence of wettability variations on dynamic effects in capillary pressure. <i>Water Resources Research</i> , 2010 , 46,	5.4	35
48	Predicting DNAPL mass discharge from pool-dominated source zones. <i>Journal of Contaminant Hydrology</i> , 2010 , 114, 18-34	3.9	57
47	Effectiveness of nanoscale zero-valent iron for treatment of a PCE-DNAPL source zone. <i>Journal of Contaminant Hydrology</i> , 2010 , 118, 128-42	3.9	40
46	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	4.7	19
45	A multistage multicriteria spatial sampling strategy for estimating contaminant mass discharge and its uncertainty. <i>Water Resources Research</i> , 2009 , 45,	5.4	11
44	Investigation of the transport and deposition of fullerene (C60) nanoparticles in quartz sands under varying flow conditions. <i>Environmental Science & Technology</i> , 2008 , 42, 7174-80	10.3	199
43	Transport and retention of nanoscale C60 aggregates in water-saturated porous media. <i>Environmental Science & Technology</i> , 2008 , 42, 3588-94	10.3	171
42	Experimental evaluation and mathematical modeling of microbially enhanced tetrachloroethene (PCE) dissolution. <i>Environmental Science & Technology</i> , 2007 , 41, 963-70	10.3	76
41	Experimental and numerical validation of the total trapping number for prediction of DNAPL mobilization. <i>Environmental Science & Technology</i> , 2007 , 41, 8135-41	10.3	17
40	A geostatistical approach for quantification of contaminant mass discharge uncertainty using multilevel sampler measurements. <i>Water Resources Research</i> , 2007 , 43,	5.4	23
39	Modeling metabolic reductive dechlorination in dense non-aqueous phase liquid source-zones. <i>Advances in Water Resources</i> , 2007 , 30, 1547-1561	4.7	31
38	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,	5.4	16
37	Modeling dense nonaqueous phase liquid mass removal in nonuniform formations: Linking source-zone architecture and system response 2006 , 2, 74		35
36	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,	5.4	82
35	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, 1791-801	10.3	63
34	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, 1778-90	10.3	72
33	Compositional Effects on Interfacial Properties in Contaminated Systems: Implications for Organic Liquid Migration and Recovery. <i>ACS Symposium Series</i> , 2005 , 160-182	0.4	1

32	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,	5.4	40
31	Exploring dynamic effects in capillary pressure in multistep outflow experiments. <i>Water Resources Research</i> , 2005 , 41,	5.4	58
30	Prediction of two-phase capillary pressure-saturation relationships in fractional wettability systems. <i>Journal of Contaminant Hydrology</i> , 2005 , 77, 247-70	3.9	43
29	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, 465-77	8.4	86
28	Infiltration of PCE in a system containing spatial wettability variations. <i>Journal of Contaminant Hydrology</i> , 2004 , 73, 39-63	3.9	54
27	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	4.7	43
26	Stimulated microbial reductive dechlorination following surfactant treatment at the Bachman Road site. <i>Environmental Science & Technology</i> , 2004 , 38, 5902-14	10.3	56
25	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,	5.4	44
24	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,	5.4	69
23	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, 227-52 ⁹	3.9	27
22	Entrapment and dissolution of DNAPLs in heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2003 , 67, 133-57	3.9	34
21	Surfactant enhanced recovery of tetrachloroethylene from a porous medium containing low permeability lenses. 1. Experimental studies. <i>Journal of Contaminant Hydrology</i> , 2001 , 48, 325-50	3.9	90
20	Surfactant enhanced recovery of tetrachloroethylene from a porous medium containing low permeability lenses. 2. Numerical simulation. <i>Journal of Contaminant Hydrology</i> , 2001 , 48, 351-74	3.9	37
19	A Nondimensional Evaluation of Tracer Sensitivity to Density Effects. <i>Ground Water</i> , 2000 , 38, 226-233	2.4	7
18	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	3.9	63
17	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	3.9	47
16	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	3.9	67
15	Influence of Soil Texture on Rate-Limited Micellar Solubilization. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 39-46	2	10

14	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	4.7	34
13	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	4.7	37
12	Solubilization of Dodecane, Tetrachloroethylene, and 1,2-Dichlorobenzene in Micellar Solutions of Ethoxylated Nonionic Surfactants. <i>Environmental Science & Technology</i> , 1997 , 31, 1382-1389	10.3	103
11	Influence of Viscous and Buoyancy Forces on the Mobilization of Residual Tetrachloroethylene during Surfactant Flushing. <i>Environmental Science & Technology</i> , 1996 , 30, 1328-1335	10.3	257
10	Simulation of organic liquid flow in porous media using estimated and measured transport properties. <i>Journal of Contaminant Hydrology</i> , 1996 , 22, 223-239	3.9	22
9	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	5.4	93
8	Mass conservative numerical solutions of the head-based Richards equation. <i>Water Resources Research</i> , 1994 , 30, 2579-2586	5.4	124
7	Surfactant enhanced remediation of soil columns contaminated by residual tetrachloroethylene. <i>Journal of Contaminant Hydrology</i> , 1994 , 16, 35-53	3.9	200
6	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	5.4	265
5	Simulation of surfactant-enhanced aquifer remediation. <i>Water Resources Research</i> , 1994 , 30, 2959-2977	5.4	92
4	Surfactant-enhanced solubilization of residual dodecane in soil columns. 1. Experimental investigation. <i>Environmental Science & Technology</i> , 1993 , 27, 2332-2340	10.3	313
3	Surfactant-enhanced solubilization of residual dodecane in soil columns. 2. Mathematical modeling. <i>Environmental Science & Technology</i> , 1993 , 27, 2341-2351	10.3	119
2	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	5.4	335
1	Modeling Multiphase Migration of Organic Chemicals in Groundwater Systems. A Review and Assessment. <i>Environmental Health Perspectives</i> , 1989 , 83, 117	8.4	64