Feike J Leij

List of Publications by Year
in descending order

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44 papers	5,263 citations	185998 28 h-index	243296 44 g-index
44 all docs	44 docs citations	44 times ranked	4236 citing authors

#	Article	IF	Citations
1	Analytical Solution for Field Soil Water Content Profiles. Water Resources Research, 2021, 57, e2019WR026298.	1.7	1
2	3.6.3. Indirect Methods. Soil Science Society of America Book Series, 2018, , 1009-1045.	0.3	4
3	Modeling the transport and retention of polydispersed colloidal suspensions in porous media. Chemical Engineering Science, 2018, 192, 972-980.	1.9	16
4	Critical Role of Preferential Flow in Fieldâ€Scale Pathogen Transport and Retention. Vadose Zone Journal, 2017, 16, 1-13.	1.3	12
5	Analytic solutions for colloid transport with time- and depth-dependent retention in porous media. Journal of Contaminant Hydrology, 2016, 195, 40-51.	1.6	17
6	Langmuirian Blocking of Irreversible Colloid Retention: Analytical Solution, Moments, and Setback Distance. Journal of Environmental Quality, 2015, 44, 1473-1482.	1.0	22
7	Equilibrium and kinetic models for colloid release under transient solution chemistry conditions. Journal of Contaminant Hydrology, 2015, 181, 141-152.	1.6	53
8	Combined physical and chemical nonequilibrium transport model for solution conduits. Journal of Contaminant Hydrology, 2014, 157, 37-46.	1.6	12
9	Colloid transport in dual-permeability media. Journal of Contaminant Hydrology, 2013, 150, 65-76.	1.6	23
10	Exact analytical solutions for contaminant transport in rivers 1. The equilibrium advection-dispersion equation. Journal of Hydrology and Hydromechanics, 2013, 61, 146-160.	0.7	63
11	Solute transport in dualâ€permeability porous media. Water Resources Research, 2012, 48, .	1.7	32
12	Hydraulic properties of soils subjected to aqueous solutions with diesel or ethanol-blended diesel. Geoderma, 2011, 162, 288-295.	2.3	8
13	Combined physical and chemical nonequilibrium transport model: Analytical solution, moments, and application to colloids. Journal of Contaminant Hydrology, 2009, 110, 87-99.	1.6	33
14	Modeling the coupled effects of pore space geometry and velocity on colloid transport and retention. Water Resources Research, 2009, 45, .	1.7	47
15	Aggregation of vertical flow in the vadose zone with auto- and cross-correlated hydraulic properties. Journal of Hydrology, 2007, 338, 96-112.	2.3	20
16	Hydrodynamic Dispersion in an Unsaturated Dune Sand. Soil Science Society of America Journal, 2003, 67, 703.	1.2	122
17	Analytical Models for Soil Poreâ€Size Distribution After Tillage. Soil Science Society of America Journal, 2002, 66, 1104-1114.	1.2	47
18	rosetta : a computer program for estimating soil hydraulic parameters with hierarchical pedotransfer functions. Journal of Hydrology, 2001, 251, 163-176.	2.3	1,972

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19	Solute transport modeled with Green's functions with application to persistent solute sources. Journal of Contaminant Hydrology, 2000, 41, 155-173.	1.6	67
20	Analytical Modeling of Nonaqueous Phase Liquid Dissolution with Green's Functions. Transport in Porous Media, 2000, 38, 141-166.	1.2	41
21	Stochastic model for posttillage soil pore space evolution. Water Resources Research, 2000, 36, 1641-1652.	1.7	96
22	Improved Prediction of Unsaturated Hydraulic Conductivity with the Mualemâ€van Genuchten Model. Soil Science Society of America Journal, 2000, 64, 843-851.	1.2	364
23	Scaling Parameter to Predict the Soil Water Characteristic from Particle-Size Distribution Data. Soil Science Society of America Journal, 1999, 63, 510-519.	1.2	200
24	Solution of the nonlinear transport equation using modified Picard iteration. Advances in Water Resources, 1998, 21, 237-249.	1.7	26
25	Neural Network Analysis for Hierarchical Prediction of Soil Hydraulic Properties. Soil Science Society of America Journal, 1998, 62, 847-855.	1.2	528
26	Analytical Solutions for Solute Transport in Finite Soil Columns with Arbitrary Initial Distributions. Soil Science Society of America Journal, 1998, 62, 855-864.	1.2	8
27	DATABASE-RELATED ACCURACY AND UNCERTAINTY OF PEDOTRANSFER FUNCTIONS. Soil Science, 1998, 163, 765-779.	0.9	379
28	Estimating interfacial areas for multi-fluid soil systems. Journal of Contaminant Hydrology, 1997, 27, 83-105.	1.6	112
29	Wettability effects on two- and three-fluid relative permeabilities. Journal of Contaminant Hydrology, 1997, 28, 171-191.	1.6	42
30	Predicting Two- and Three-Fluid Capillary Pressure-Saturation Relationships of Porous Media With Fractional Wettability. Water Resources Research, 1996, 32, 251-259.	1.7	53
31	Convective-Dispersive Stream Tube Model for Field-Scale Solute Transport: I. Moment Analysis. Soil Science Society of America Journal, 1996, 60, 342-351.	1.2	50
32	Convective-Dispersive Stream Tube Model for Field-Scale Solute Transport: II. Examples and Calibration. Soil Science Society of America Journal, 1996, 60, 352-361.	1.2	31
33	Fractional wettability effects on two-and three-fluid capillary pressure-saturation relations. Journal of Contaminant Hydrology, 1995, 20, 89-109.	1.6	63
34	Wettability Effects on Scaling Two- and Three-Fluid Capillary Pressure-Saturation Relations. Environmental Science & Technology, 1995, 29, 1446-1455.	4.6	47
35	Discrete Time- and Length-Averaged Solutions of the Advection-Dispersion Equation. Water Resources Research, 1995, 31, 1713-1724.	1.7	16
36	Analytical solutions for non-equilibrium solute transport in three-dimensional porous media. Journal of Hydrology, 1993, 151, 193-228.	2.3	84

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37	Flux-Averaged Concentrations for Transport in Soils Having Nonuniform Initial Solute Distributions. Soil Science Society of America Journal, 1993, 57, 1406-1409.	1.2	15
38	A comprehensive set of analytical solutions for nonequilibrium solute transport with first-order decay and zero-order production. Water Resources Research, 1993, 29, 2167-2182.	1.7	181
39	LYSIMETER STUDY OF ANION TRANSPORT DURING STEADY FLOW THROUGH LAYERED COARSE-TEXTURED SOIL PROFILES. Soil Science, 1992, 154, 196-205.	0.9	15
40	Moment Method Applied to Solute Transport with Binary and Ternary Exchange. Soil Science Society of America Journal, 1992, 56, 667-674.	1.2	34
41	Analytical Solutions for Solute Transport in Three-Dimensional Semi-infinite Porous Media. Water Resources Research, 1991, 27, 2719-2733.	1.7	174
42	Mathematical Analysis of Oneâ€Dimensional Solute Transport in a Layered Soil Profile. Soil Science Society of America Journal, 1991, 55, 944-953.	1.2	63
43	Solute Transport in a Twoâ€Layer Medium Investigated with Time Moments. Soil Science Society of America Journal, 1991, 55, 1529-1535.	1.2	28
44	Analytical solutions of the one-dimensional advection equation and two-dimensional or three-dimensional dispersion equation. Water Resources Research, 1990, 26, 1475-1482.	1.7	42