

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	rosetta : a computer program for estimating soil hydraulic parameters with hierarchical pedotransfer functions. <i>Journal of Hydrology</i> , 2001, 251, 163-176.	2.3	1,972
2	Neural Network Analysis for Hierarchical Prediction of Soil Hydraulic Properties. <i>Soil Science Society of America Journal</i> , 1998, 62, 847-855.	1.2	528
3	DATABASE-RELATED ACCURACY AND UNCERTAINTY OF PEDOTRANSFER FUNCTIONS. <i>Soil Science</i> , 1998, 163, 765-779.	0.9	379
4	Improved Prediction of Unsaturated Hydraulic Conductivity with the Mualem-van Genuchten Model. <i>Soil Science Society of America Journal</i> , 2000, 64, 843-851.	1.2	364
5	Scaling Parameter to Predict the Soil Water Characteristic from Particle-Size Distribution Data. <i>Soil Science Society of America Journal</i> , 1999, 63, 510-519.	1.2	200
6	A comprehensive set of analytical solutions for nonequilibrium solute transport with first-order decay and zero-order production. <i>Water Resources Research</i> , 1993, 29, 2167-2182.	1.7	181
7	Analytical Solutions for Solute Transport in Three-Dimensional Semi-infinite Porous Media. <i>Water Resources Research</i> , 1991, 27, 2719-2733.	1.7	174
8	Hydrodynamic Dispersion in an Unsaturated Dune Sand. <i>Soil Science Society of America Journal</i> , 2003, 67, 703.	1.2	122
9	Estimating interfacial areas for multi-fluid soil systems. <i>Journal of Contaminant Hydrology</i> , 1997, 27, 83-105.	1.6	112
10	Stochastic model for posttillage soil pore space evolution. <i>Water Resources Research</i> , 2000, 36, 1641-1652.	1.7	96
11	Analytical solutions for non-equilibrium solute transport in three-dimensional porous media. <i>Journal of Hydrology</i> , 1993, 151, 193-228.	2.3	84
12	Solute transport modeled with Green's functions with application to persistent solute sources. <i>Journal of Contaminant Hydrology</i> , 2000, 41, 155-173.	1.6	67
13	Mathematical Analysis of One-Dimensional Solute Transport in a Layered Soil Profile. <i>Soil Science Society of America Journal</i> , 1991, 55, 944-953.	1.2	63
14	Fractional wettability effects on two-and three-fluid capillary pressure-saturation relations. <i>Journal of Contaminant Hydrology</i> , 1995, 20, 89-109.	1.6	63
15	Exact analytical solutions for contaminant transport in rivers 1. The equilibrium advection-dispersion equation. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 146-160.	0.7	63
16	Predicting Two- and Three-Fluid Capillary Pressure-Saturation Relationships of Porous Media With Fractional Wettability. <i>Water Resources Research</i> , 1996, 32, 251-259.	1.7	53
17	Equilibrium and kinetic models for colloid release under transient solution chemistry conditions. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 141-152.	1.6	53
18	Convective-Dispersive Stream Tube Model for Field-Scale Solute Transport: I. Moment Analysis. <i>Soil Science Society of America Journal</i> , 1996, 60, 342-351.	1.2	50

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19	Wettability Effects on Scaling Two- and Three-Fluid Capillary Pressure-Saturation Relations. <i>Environmental Science & Technology</i> , 1995, 29, 1446-1455.	4.6	47
20	Analytical Models for Soil Pore Size Distribution After Tillage. <i>Soil Science Society of America Journal</i> , 2002, 66, 1104-1114.	1.2	47
21	Modeling the coupled effects of pore space geometry and velocity on colloid transport and retention. <i>Water Resources Research</i> , 2009, 45, .	1.7	47
22	Wettability effects on two- and three-fluid relative permeabilities. <i>Journal of Contaminant Hydrology</i> , 1997, 28, 171-191.	1.6	42
23	Analytical solutions of the one-dimensional advection equation and two-dimensional or three-dimensional dispersion equation. <i>Water Resources Research</i> , 1990, 26, 1475-1482.	1.7	42
24	Analytical Modeling of Nonaqueous Phase Liquid Dissolution with Green's Functions. <i>Transport in Porous Media</i> , 2000, 38, 141-166.	1.2	41
25	Moment Method Applied to Solute Transport with Binary and Ternary Exchange. <i>Soil Science Society of America Journal</i> , 1992, 56, 667-674.	1.2	34
26	Combined physical and chemical nonequilibrium transport model: Analytical solution, moments, and application to colloids. <i>Journal of Contaminant Hydrology</i> , 2009, 110, 87-99.	1.6	33
27	Solute transport in dual-permeability porous media. <i>Water Resources Research</i> , 2012, 48, .	1.7	32
28	Convective-Dispersive Stream Tube Model for Field-Scale Solute Transport: II. Examples and Calibration. <i>Soil Science Society of America Journal</i> , 1996, 60, 352-361.	1.2	31
29	Solute Transport in a Two-Layer Medium Investigated with Time Moments. <i>Soil Science Society of America Journal</i> , 1991, 55, 1529-1535.	1.2	28
30	Solution of the nonlinear transport equation using modified Picard iteration. <i>Advances in Water Resources</i> , 1998, 21, 237-249.	1.7	26
31	Colloid transport in dual-permeability media. <i>Journal of Contaminant Hydrology</i> , 2013, 150, 65-76.	1.6	23
32	Langmuirian Blocking of Irreversible Colloid Retention: Analytical Solution, Moments, and Setback Distance. <i>Journal of Environmental Quality</i> , 2015, 44, 1473-1482.	1.0	22
33	Aggregation of vertical flow in the vadose zone with auto- and cross-correlated hydraulic properties. <i>Journal of Hydrology</i> , 2007, 338, 96-112.	2.3	20
34	Analytic solutions for colloid transport with time- and depth-dependent retention in porous media. <i>Journal of Contaminant Hydrology</i> , 2016, 195, 40-51.	1.6	17
35	Discrete Time- and Length-Averaged Solutions of the Advection-Dispersion Equation. <i>Water Resources Research</i> , 1995, 31, 1713-1724.	1.7	16
36	Modeling the transport and retention of polydispersed colloidal suspensions in porous media. <i>Chemical Engineering Science</i> , 2018, 192, 972-980.	1.9	16

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37	LYSIMETER STUDY OF ANION TRANSPORT DURING STEADY FLOW THROUGH LAYERED COARSE-TEXTURED SOIL PROFILES. <i>Soil Science</i> , 1992, 154, 196-205.	0.9	15
38	Flux-Averaged Concentrations for Transport in Soils Having Nonuniform Initial Solute Distributions. <i>Soil Science Society of America Journal</i> , 1993, 57, 1406-1409.	1.2	15
39	Combined physical and chemical nonequilibrium transport model for solution conduits. <i>Journal of Contaminant Hydrology</i> , 2014, 157, 37-46.	1.6	12
40	Critical Role of Preferential Flow in Field-Scale Pathogen Transport and Retention. <i>Vadose Zone Journal</i> , 2017, 16, 1-13.	1.3	12
41	Analytical Solutions for Solute Transport in Finite Soil Columns with Arbitrary Initial Distributions. <i>Soil Science Society of America Journal</i> , 1998, 62, 855-864.	1.2	8
42	Hydraulic properties of soils subjected to aqueous solutions with diesel or ethanol-blended diesel. <i>Geoderma</i> , 2011, 162, 288-295.	2.3	8
43	3.6.3. Indirect Methods. <i>Soil Science Society of America Book Series</i> , 2018, , 1009-1045.	0.3	4
44	Analytical Solution for Field Soil Water Content Profiles. <i>Water Resources Research</i> , 2021, 57, e2019WR026298.	1.7	1