

John H Knight

List of Publications by Year in descending order

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66
papers

3,043
citations

201385

27
h-index

161609

54
g-index

67
all docs

67
docs citations

67
times ranked

1959
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Method for Numerical Inversion of Laplace Transforms. SIAM Journal on Scientific and Statistical Computing, 1982, 3, 357-366.	1.5	679
2	Sensitivity of time domain reflectometry measurements to lateral variations in soil water content. Water Resources Research, 1992, 28, 2345-2352.	1.7	199
3	The sample areas of conventional and alternative time domain reflectometry probes. Water Resources Research, 1998, 34, 2971-2979.	1.7	156
4	Analytical solution of a spatially variable coefficient advection-diffusion equation in up to three dimensions. Applied Mathematical Modelling, 1999, 23, 667-685.	2.2	139
5	Transient electromagnetic calculations using the Gaver-Stehfest inverse Laplace transform method. Geophysics, 1982, 47, 47-50.	1.4	135
6	ON SOLVING THE UNSATURATED FLOW EQUATION. Soil Science, 1974, 117, 1-13.	0.9	119
7	Mangroves may Salinize the Soil and in so Doing Limit Their Transpiration Rate. Functional Ecology, 1992, 6, 476.	1.7	115
8	Unsaturated seepage and subterranean holes: Conspectus, and exclusion problem for circular cylindrical cavities. Water Resources Research, 1989, 25, 16-28.	1.7	112
9	Analytical Solutions for Advection and Advection-Diffusion Equations with Spatially Variable Coefficients. Journal of Hydraulic Engineering, 1997, 123, 144-148.	0.7	100
10	Exact solutions in nonlinear diffusion. Journal of Engineering Mathematics, 1974, 8, 219-227.	0.6	87
11	A numerical analysis of the effects of coatings and gaps upon relative dielectric permittivity measurement with time domain reflectometry. Water Resources Research, 1997, 33, 1455-1460.	1.7	83
12	Comments on 'Considerations on the use of time-domain reflectometry (TDR) for measuring soil water content' by W.R. Whalley. European Journal of Soil Science, 1994, 45, 503-508.	1.8	76
13	Hydrodynamic Dispersion During Absorption of Water by Soil. Soil Science Society of America Journal, 1978, 42, 229-234.	1.2	70
14	A note on the use of the Philip infiltration equation. Soil Research, 1976, 14, 103.	0.6	68
15	BURGERS' EQUATION. Soil Science, 1981, 132, 255-261.	0.9	64
16	Constant Rate Rainfall Infiltration in a Bounded Profile: Solutions of a Nonlinear Model. Soil Science Society of America Journal, 1988, 52, 1526-1533.	1.2	64
17	Where to plant trees on cropping land for control of dryland salinity: some approximate solutions. Agricultural Water Management, 1999, 39, 115-133.	2.4	54
18	Semianalytical Solution for Dual-Probe Heat-Pulse Applications that Accounts for Probe Radius and Heat Capacity. Vadose Zone Journal, 2012, 11, vzt2011.0112.	1.3	53

#	ARTICLE	IF	CITATIONS
19	Steady periodic flow through a rectangular dam. <i>Water Resources Research</i> , 1981, 17, 1222-1224.	1.7	41
20	The seepage exclusion problem for parabolic and paraboloidal cavities. <i>Water Resources Research</i> , 1989, 25, 605-618.	1.7	40
21	A numerically based analysis of the sensitivity of conventional and alternative time domain reflectometry probes. <i>Water Resources Research</i> , 2000, 36, 2461-2468.	1.7	39
22	The seepage exclusion problem for spherical cavities. <i>Water Resources Research</i> , 1989, 25, 29-37.	1.7	33
23	Improving the Dupuit-Forchheimer groundwater free surface approximation. <i>Advances in Water Resources</i> , 2005, 28, 1048-1056.	1.7	31
24	ON SOLVING THE UNSATURATED FLOW EQUATION. <i>Soil Science</i> , 1973, 116, 407-416.	0.9	30
25	Impacts of irrigation and dryland development on groundwater discharge to rivers—a unit response approach to cumulative impacts analysis. <i>Journal of Hydrology</i> , 2005, 303, 79-91.	2.3	30
26	Modelling oxygen transport in soil with plant root and microbial oxygen consumption: depth of oxygen penetration. <i>Soil Research</i> , 2013, 51, 539.	0.6	30
27	Oxygen Transport to Plant Roots. <i>Soil Science Society of America Journal</i> , 2003, 67, 20.	1.2	28
28	A conservative vapour intrusion screening model of oxygen-limited hydrocarbon vapour biodegradation accounting for building footprint size. <i>Journal of Contaminant Hydrology</i> , 2013, 155, 46-54.	1.6	26
29	Two-dimensional unsaturated flow through a circular inclusion. <i>Water Resources Research</i> , 2002, 38, 18-1-18-6.	1.7	22
30	Sensitivity of the Dual-Probe Heat-Pulse Method to Spatial Variations in Heat Capacity and Water Content. <i>Vadose Zone Journal</i> , 2007, 6, 746-758.	1.3	22
31	Soil temperature increase in eastern Australia for the past 50 years. <i>Geoderma</i> , 2018, 313, 241-249.	2.3	19
32	Some analytical solutions for sensitivity of well tests to variations in storativity and transmissivity. <i>Advances in Water Resources</i> , 2005, 28, 1057-1075.	1.7	18
33	Oxygen transport in soil and the vertical distribution of roots. <i>Soil Research</i> , 2007, 45, 101.	0.6	17
34	Absorption of Water by Soil: The Effect of a Surface Crust. <i>Soil Science Society of America Journal</i> , 1982, 46, 476-481.	1.2	16
35	Constant pressure filtration: The effect of a filter membrane. <i>Chemical Engineering Science</i> , 1982, 37, 707-714.	1.9	16
36	Steady saturated-unsaturated flow in irregular porous domains. <i>Mathematical and Computer Modelling</i> , 2001, 34, 177-194.	2.0	14

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37	Groundwater head responses due to random stream stage fluctuations using basis splines. <i>Water Resources Research</i> , 2007, 43, .	1.7	14
38	Upscaling from paddocks to catchments of pesticide mass and concentration in runoff. <i>Agriculture, Ecosystems and Environment</i> , 2013, 180, 136-147.	2.5	14
39	The Contributions of Lewis Fry Richardson to Drainage Theory, Soil Physics, and the Soil-Plant-Atmosphere Continuum. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	14
40	Comment on "A space-time accurate method for solving solute transport problems" by S. G. Li, F. Ruan, and D. McLaughlin. <i>Water Resources Research</i> , 1994, 30, 3233-3235.	1.7	12
41	Transverse sample area of two- and three-rod time domain reflectometry probes: Electrical conductivity. <i>Water Resources Research</i> , 2003, 39, .	1.7	11
42	Steady infiltration flows with sloping boundaries. <i>Water Resources Research</i> , 1997, 33, 1833-1841.	1.7	10
43	Steady infiltration from line sources into a layered profile. <i>Water Resources Research</i> , 2003, 39, .	1.7	10
44	Handling the water content discontinuity at the interface between layered soils within a numerical scheme. <i>Soil Research</i> , 2005, 43, 945.	0.6	10
45	DISCUSSION OF "THE SPATIAL SENSITIVITY OF TIME-DOMAIN REFLECTOMETRY" BY J. M. BAKER AND R. J. LASCANO. <i>Soil Science</i> , 1991, 151, 254-255.	0.9	9
46	A Simple Rational Approximation for Heat Capacity Determination with the Dual-Probe Heat-Pulse Method. <i>Soil Science Society of America Journal</i> , 2015, 79, 495-498.	1.2	9
47	Unsaturated flow through a spherical inclusion. <i>Water Resources Research</i> , 2004, 40, .	1.7	7
48	Steady state lateral water flow through unsaturated soil layers. <i>Water Resources Research</i> , 2008, 44, .	1.7	7
49	Steady Groundwater Flow to Drains on a Sloping Bed: Comparison of Solutions Based on Boussinesq Equation and Richards Equation. <i>Transport in Porous Media</i> , 2009, 77, 357-372.	1.2	7
50	The Application of the Markovian Hypothesis to the Theory of Soil Water Movement: A Criticism. <i>Soil Science Society of America Journal</i> , 1977, 41, 827.	1.2	7
51	Gravity Filtration with Accretion of Slurry at Constant Rate. <i>Separation Science and Technology</i> , 1979, 14, 175-192.	1.3	6
52	The transient water table beneath a leaking canal. <i>Journal of Hydrology</i> , 1979, 44, 149-162.	2.3	6
53	The dual probe heat pulse method: interaction between probes of finite radius and finite heat capacity. <i>Journal of Engineering Mathematics</i> , 2016, 99, 79-102.	0.6	6
54	Extinguishing Petroleum Vapor Intrusion and Methane Risks for Slab-on-ground Buildings: A Simple Guide. <i>Ground Water Monitoring and Remediation</i> , 2021, 41, 61-72.	0.6	6

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55	Groundwater flow patterns in the vicinity of underground openings in unsaturated rock—Comment. <i>Journal of Hydrology</i> , 1992, 138, 599-601.	2.3	5
56	The Environmental Mechanic (a tribute to J. R. Philip). <i>Soil Research</i> , 2001, 39, 649.	0.6	5
57	An Improved Approximation for Spherical Diffusion of Tritium in Relatively Dry Soil. <i>Water Resources Research</i> , 1996, 32, 349-354.	1.7	3
58	An improved solution for the infiltration advance problem in irrigation hydraulics. <i>Irrigation Science</i> , 2013, 31, 1113-1123.	1.3	3
59	A One-Dimensional Model of Sedimentation Using Darcy's Law. <i>Separation Science and Technology</i> , 1979, 14, 291-304.	1.3	2
60	Discussion and Closure: Response of Unconfined Aquifer to Sudden Change in Boundary Head. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1998, 124, 184-186.	0.6	2
61	Integral form of the cylindrical perfect conductors solution for the dual—probe heat—pulse method. <i>Soil Science Society of America Journal</i> , 2021, 85, 1963.	1.2	2
62	SIMPLIFIED COMPUTATIONAL APPROACH FOR DUAL-PROBE HEAT-PULSE METHOD. <i>Soil Science Society of America Journal</i> , 2004, 68, 447.	1.2	2
63	Discussion: Unsteady Finite-Analytic Method for Solute Transport in Ground-Water Flow. <i>Journal of Engineering Mechanics - ASCE</i> , 1996, 122, 587-589.	1.6	1
64	Contaminant Source Solutions with Scale-Dependent Dispersivities. <i>Journal of Hydrologic Engineering - ASCE</i> , 2000, 5, 111-113.	0.8	1
65	Comment on <i>Use of Single—Well Tracer Dilution Tests to Evaluate $LNAPL$ Flux at Seven Field Sites</i> and <i>Measurement of $LNAPL$ Flux Using Single—Well Intermittent Mixing Tracer Dilution Tests</i> . <i>Ground Water</i> , 2016, 54, 623-624.	0.7	0
66	Comments on Upper and Lower Bounds of the Ponding Time for Near—Constant Surface Flux. <i>Soil Science Society of America Journal</i> , 1988, 52, 1517-1517.	1.2	0