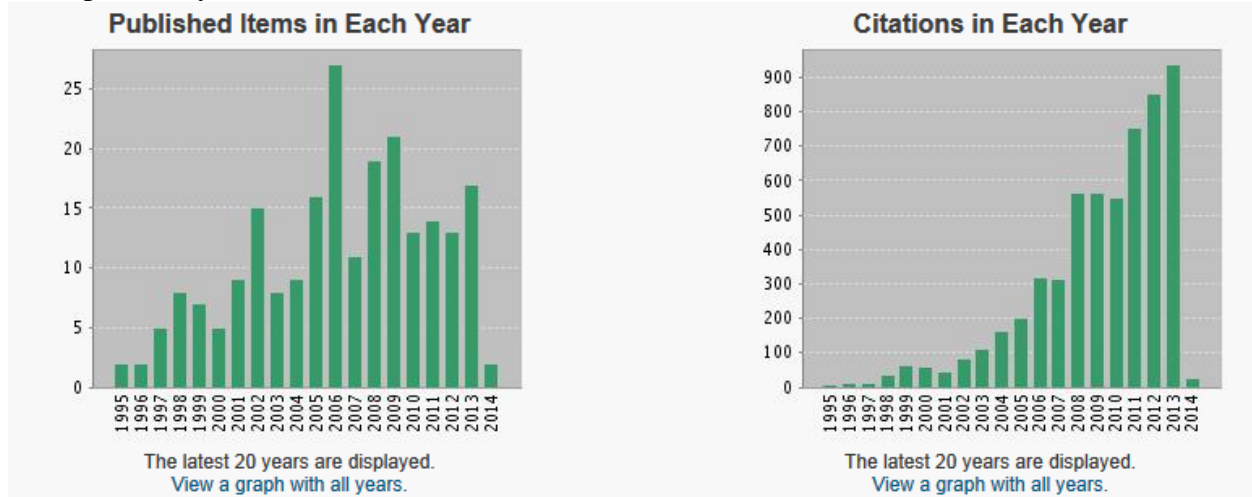


Notes: Web of Science™

AUTHOR: (Simunek J* or Simonek J*) AND ADDRESS: (Riverside)

Timespan=All years,



Results found: 229

Sum of the Times Cited: 5669

Average Citations per Item: 24.76

h-index: 42

		2010	2011	2012	2013	2014	Total	Average Citations per Year
		548	753	850	935	25	5669	257.68
1.	Title: Review and comparison of models for describing non-equilibrium and preferential flow and transport in the vadose zone By: Simunek, J; Jarvis, NJ; van Genuchten, MT; et al. Source: JOURNAL OF HYDROLOGY Volume: 272 Issue: 1-4 Pages: 14-35 Article Number: PII S0022-1694(02)00252-4 Published: MAR 10 2003	28	35	48	29	2	297	24.75
2.	Title: Development and applications of the HYDRUS and STANMOD software packages and related codes By: Simunek, Jiri; van Genuchten, Martinus Th.; Sejna, Miroslav Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 587-600 Published: MAY 2008	28	35	50	63	3	196	28.00

		2010	2011	2012	2013	2014	Total	Average Citations per Year
		548	753	850	935	25	5669	257.68
3.	Title: Modeling colloid attachment, straining, and exclusion in saturated porous media By: Bradford, SA; Simunek, J; Bettahar, M; et al. Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 37 Issue: 10 Pages: 2242-2250 Published: MAY 15 2003	24	27	21	27	0	192	16.00
4.	Title: Physical factors affecting the transport and fate of colloids in saturated porous media By: Bradford, SA; Yates, SR; Bettahar, M; et al. Source: WATER RESOURCES RESEARCH Volume: 38 Issue: 12 Article Number: 1327 Published: DEC 31 2002	28	18	12	20	0	187	14.38
5.	Title: MODELING OF CARBON-DIOXIDE TRANSPORT AND PRODUCTION IN SOIL .1. MODEL DEVELOPMENT By: SIMUNEK, J; SUAREZ, DL Source: WATER RESOURCES RESEARCH Volume: 29 Issue: 2 Pages: 487-497 Published: FEB 1993	9	15	12	13	1	142	6.45
6.	Title: Estimating unsaturated soil hydraulic properties from tension disc infiltrometer data by numerical inversion By: Simunek, J; vanGenuchten, MT Source: WATER RESOURCES RESEARCH Volume: 32 Issue: 9 Pages: 2683-2696 Published: SEP 1996	7	8	6	11	0	128	6.74
7.	Title: Fate and transport of 17 beta-estradiol in soil-water systems By: Casey, FXM; Larsen, GL; Hakk, H; et al. Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 37 Issue: 11 Pages: 2400-2409 Published: JUN 1 2003	13	10	13	11	1	119	9.92
8.	Title: Calibration of a two-dimensional root water uptake model By: Vrugt, JA; Hopmans, JW; Simunek, J Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 65 Issue: 4 Pages: 1027-1037 Published: JUL-AUG 2001	7	9	12	17	0	109	7.79
9.	Title: One-, two-, and three-dimensional root water uptake functions for transient modeling By: Vrugt, JA; van Wijk, MT; Hopmans, JW; et al. Source: WATER RESOURCES RESEARCH Volume: 37 Issue: 10 Pages: 2457-2470 Published: OCT 2001	11	8	11	12	0	95	6.79
10.	Title: Modeling nonequilibrium flow and transport processes using HYDRUS	14	15	22	27	0	92	13.14

	2010	2011	2012	2013	2014	Total	Average Citations per Year
	548	753	850	935	25	5669	257.68
By: Simunek, Jirka; van Genuchten, Martinus Th. Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 782-797 Published: MAY 2008							

11.	Title: Comparison of HYDRUS-2D simulations of drip irrigation with experimental observations By: Skaggs, TH; Trout, TJ; Simunek, J; et al. Source: JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING-ASCE Volume: 130 Issue: 4 Pages: 304-310 Published: JUL-AUG 2004	11	15	15	19	0	92	8.36
12.	Title: Straining and attachment of colloids in physically heterogeneous porous media By: Bradford, SA; Bettahar, M; Simunek, J; et al. Source: VADOSE ZONE JOURNAL Volume: 3 Issue: 2 Pages: 384-394 Published: MAY 2004	11	8	7	11	0	90	8.18
13.	Title: Water flow and heat transport in frozen soil: Numerical solution and freeze-thaw applications By: Hansson, K; Simunek, J; Mizoguchi, M; et al. Source: VADOSE ZONE JOURNAL Volume: 3 Issue: 2 Pages: 693-704 Published: MAY 2004	4	18	15	22	0	84	7.64
14.	Title: Parameter estimation analysis of the evaporation method for determining soil hydraulic properties By: Simunek, J; Wendroth, O; van Genuchten, MT Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 62 Issue: 4 Pages: 894-905 Published: JUL-AUG 1998	6	8	2	6	0	82	4.82
15.	Title: Significance of straining in colloid deposition: Evidence and implications By: Bradford, S. A.; Simunek, J.; Bettahar, M.; et al. Source: WATER RESOURCES RESEARCH Volume: 42 Issue: 12 Article Number: W12S15 Published: NOV 1 2006	10	12	13	13	0	81	9.00
16.	Title: UNSATCHEM: Unsaturated water and solute transport model with equilibrium and kinetic chemistry By: Suarez, DL; Simunek, J Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 61 Issue: 6 Pages: 1633-1646 Published: NOV-DEC 1997	4	7	11	6	0	81	4.50
17.	Title: 2-DIMENSIONAL TRANSPORT MODEL FOR VARIABLY SATURATED POROUS-MEDIA WITH MAJOR ION CHEMISTRY By: SIMUNEK, J; SUAREZ, DL Source: WATER RESOURCES RESEARCH Volume: 30 Issue: 4 Pages: 1115-1133 Published: APR 1994	3	3	2	4	0	78	3.71
18.	Title: Two-dimensional modeling of nitrate leaching for various fertigation scenarios under micro-irrigation By: Gardenas, AI; Hopmans, JW; Hanson, BR; et al. Source: AGRICULTURAL WATER MANAGEMENT Volume: 74 Issue: 3 Pages: 219-242 Published: JUN 15 2005	7	15	14	16	0	74	7.40

19.	Title: Flow rate dependence of soil hydraulic characteristics By: Wildenschild, D; Hopmans, JW; Simunek, J Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 65 Issue: 1 Pages: 35-48 Published: JAN-FEB 2001	4	7	6	5	1	74	5.29
20.	Title: Sorption, mobility, and transformation of estrogenic hormones in natural soil By: Casey, FXM; Simunek, J; Lee, J; et al. Source: JOURNAL OF ENVIRONMENTAL QUALITY Volume: 34 Issue: 4 Pages: 1372-1379 Published: JUL-AUG 2005	8	12	9	6	2	68	6.80
21.	Title: A review of model applications for structured soils: a) Water flow and tracer transport By: Koehne, John Maximilian; Koehne, Sigrid; Simunek, Jirka Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 104 Issue: 1-4 Pages: 4-35 Published: FEB 16 2009	7	9	26	19	0	67	11.17
22.	Title: Numerical analysis of coupled water, vapor, and heat transport in the vadose zone By: Saito, H; Simunek, J; Mohanty, BP Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 2 Pages: 784-800 Published: MAY 2006	6	13	13	12	0	65	7.22
23.	Title: Estimating unsaturated soil hydraulic properties from multiple tension disc infiltrometer data By: Simunek, J; vanGenuchten, MT Source: SOIL SCIENCE Volume: 162 Issue: 6 Pages: 383-398 Published: JUN 1997	3	2	3	6	0	64	3.56
24.	Title: Variations in flow and transport in thick desert vadose zones in response to paleoclimatic forcing (0-90 kyr): Field measurements, modeling, and uncertainties By: Scanlon, BR; Keese, K; Reedy, RC; et al. Source: WATER RESOURCES RESEARCH Volume: 39 Issue: 7 Article Number: 1179 Published: JUL 10 2003	7	5	3	7	0	63	5.25
25.	Title: Fate and transport of testosterone in agricultural soils By: Casey, FXM; Hakk, H; Simunek, J; et al. Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 38 Issue: 3 Pages: 790-798 Published: FEB 1 2004	5	6	8	6	0	62	5.64
26.	Title: Transport and straining of E-coli O157 : H7 in saturated porous media By: Bradford, Scott A.; Simunek, Jirka; Walker, Sharon L. Source: WATER RESOURCES RESEARCH Volume: 42 Issue: 12 Article Number: W12S12 Published: NOV 18 2006	9	12	4	12	0	61	6.78
27.	Title: A review of model applications for structured soils: b) Pesticide transport By: Koehne, John Maximilian; Koehne, Sigrid; Simunek, Jirka Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 104 Issue: 1-4 Pages: 36-60 Published: FEB 16 2009	7	11	16	19	0	57	9.50
28.	Title: Colloid-facilitated solute transport in variably saturated porous media: Numerical model and experimental verification By: Simunek, Jirka; He, Changming; Pang, Liping; et al. Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 3 Pages: 1035-	6	7	9	11	0	57	6.33

	1047	Published: AUG 2006									
29.		Title: Using an inverse method to estimate the hydraulic properties of crusted soils from tension-disc infiltrometer data By: Simunek, J; Angulo-Jaramillo, R; Schaap, MG; et al. Source: GEODERMA Volume: 86 Issue: 1-2 Pages: 61-81 Published: OCT 1998	5	5	7	6	0	55	3.24		
30.		Title: Modeling compensated root water and nutrient uptake By: Simunek, Jiri; Hopmans, Jan W. Source: ECOLOGICAL MODELLING Volume: 220 Issue: 4 Pages: 505-521 Published: FEB 24 2009	3	14	21	14	0	54	9.00		
31.		Title: Impact of rainfall intensity on the transport of two herbicides in undisturbed grassed filter strip soil cores By: Pot, V; Simunek, J; Benoit, P; et al. Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 81 Issue: 1-4 Pages: 63-88 Published: DEC 2005	7	9	8	6	0	54	5.40		
32.		Title: Evaluation of urea-ammonium-nitrate fertigation with drip irrigation using numerical modeling By: Hanson, Blaine R.; Simunek, Jirka; Hopmans, Jan W. Source: AGRICULTURAL WATER MANAGEMENT Volume: 86 Issue: 1-2 Pages: 102-113 Published: NOV 16 2006	4	10	10	15	1	53	5.89		
33.		Title: Simultaneous estimation of soil hydraulic and solute transport parameters from transient infiltration experiments By: Inoue, M; Simunek, J; Shiozawa, S; et al. Source: ADVANCES IN WATER RESOURCES Volume: 23 Issue: 7 Pages: 677-688 Published: JUN 2000	3	4	4	1	0	53	3.53		
34.		Title: Modeling variably saturated water flow and multicomponent reactive transport in constructed wetlands By: Langergraber, G; Simunek, J Source: VADOSE ZONE JOURNAL Volume: 4 Issue: 4 Pages: 924-938 Published: NOV 2005	6	7	7	6	0	52	5.20		
35.		Title: Leaching requirement for soil salinity control: Steady-state versus transient models By: Corwin, Dennis L.; Rhoades, James D.; Simunek, Jirka Source: AGRICULTURAL WATER MANAGEMENT Volume: 90 Issue: 3 Pages: 165-180 Published: JUN 16 2007	5	12	6	13	0	47	5.88		
36.		Title: MODELING OF CARBON-DIOXIDE TRANSPORT AND PRODUCTION IN SOIL .2. PARAMETER SELECTION, SENSITIVITY ANALYSIS, AND COMPARISON OF MODEL PREDICTIONS TO FIELD DATA By: SUAREZ, DL; SIMUNEK, J Source: WATER RESOURCES RESEARCH Volume: 29 Issue: 2 Pages: 499-513 Published: FEB 1993	0	2	5	1	0	47	2.14		
37.		Title: Intercode comparisons for simulating water balance of surficial sediments in semiarid regions By: Scanlon, BR; Christman, M; Reedy, RC; et al. Source: WATER RESOURCES RESEARCH Volume: 38 Issue: 12 Article Number: 1323 Published: DEC 31 2002	3	9	4	3	0	45	3.46		
38.		Title: Calibration of Richards' and convection-dispersion equations to	4	4	5	3	0	44	3.38		

48.	Title: Non-equilibrium water flow characterized by means of upward infiltration experiments By: Simunek, J; Wendroth, O; Wypler, N; et al. Source: EUROPEAN JOURNAL OF SOIL SCIENCE Volume: 52 Issue: 1 Pages: 13-24 Published: MAR 2001	2	4	7	3	0	35	2.50
49.	Title: Two-dimensional modelling of preferential water flow and pesticide transport from a tile-drained field By: Gardenas, Annemieke I.; Simunek, Jirka; Jarvis, Nicholas; et al. Source: JOURNAL OF HYDROLOGY Volume: 329 Issue: 3-4 Pages: 647-660 Published: OCT 15 2006	1	4	6	7	0	33	3.67
50.	Title: Kinetic modeling of virus transport at the field scale By: Schijven, JF; Simunek, J Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 55 Issue: 1-2 Pages: 113-135 Article Number: PII S0169-7722(01)00188-7 Published: MAR 2002	0	2	7	5	1	33	2.54
51.	Title: Stochastic Fusion of Information for Characterizing and Monitoring the Vadose Zone By: Yeh, Tian-Chyi J.; Simunek, Jirka Source: VADOSE ZONE JOURNAL Volume: 1 Issue: 2 Pages: 207-221 Published: NOV 2002	3	1	3	4	0	32	2.46
52.	Title: Indirect estimation of soil thermal properties and water flux using heat pulse probe measurements: Geometry and dispersion effects By: Hopmans, JW; Simunek, J; Bristow, KL Source: WATER RESOURCES RESEARCH Volume: 38 Issue: 1 Article Number: 1006 Published: JAN 2002	3	6	9	3	0	32	2.46
53.	Title: Aging effects on cadmium transport in undisturbed contaminated sandy soil columns By: Seuntjens, P; Tirez, K; Simunek, J; et al. Source: JOURNAL OF ENVIRONMENTAL QUALITY Volume: 30 Issue: 3 Pages: 1040-1050 Published: MAY-JUN 2001	1	3	6	2	0	32	2.29
54.	Title: Sodic soil reclamation using multicomponent transport modeling By: Simunek, J; Suarez, DL Source: JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING-ASCE Volume: 123 Issue: 5 Pages: 367-376 Published: SEP-OCT 1997	0	4	1	2	0	32	1.78
55.	Title: Simultaneous inverse estimation of soil hydraulic and solute transport parameters from transient field experiments: Homogeneous soil By: Abbasi, F; Simunek, J; Feyen, J; et al. Source: TRANSACTIONS OF THE ASAE Volume: 46 Issue: 4 Pages: 1085-1095 Published: JUL-AUG 2003	1	7	2	2	1	31	2.58
56.	Title: Hysteresis of Colloid Retention and Release in Saturated Porous Media During Transients in Solution Chemistry By: Torkzaban, Saeed; Kim, Hyunjung N.; Simunek, Jiri; et al. Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 44 Issue: 5 Pages: 1662-1669 Published: MAR 1 2010	2	3	14	11	0	30	6.00
57.	Title: Evaluating interactions between groundwater and vadose zone using the HYDRUS-based flow package for MODFLOW By: Twarakavi, Navin Kumar C.; Simunek, Jirka; Seo, Sophia Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 757-	3	5	6	8	0	30	4.29

768 Published: MAY 2008

58.	Title: Multi-process herbicide transport in structured soil columns: Experiments and model analysis By: Kohne, JM; Kohne, S; Simunek, J Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 85 Issue: 1-2 Pages: 1-32 Published: MAY 5 2006	3	6	3	7	0	30	3.33
59.	Title: Infiltration of water into soil with cracks By: Novak, V; Simunek, J; van Genuchten, MT Source: JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING-ASCE Volume: 126 Issue: 1 Pages: 41-47 Published: JAN-FEB 2000	5	5	2	4	0	30	2.00
60.	Title: Leaching with subsurface drip irrigation under saline, shallow groundwater conditions By: Hanson, Blaine; Hopmans, Jan W.; Simunek, Jirka Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 810-818 Published: MAY 2008	0	7	6	11	0	29	4.14
61.	Title: Inverse dual-permeability modeling of preferential water flow in a soil column and implications for field-scale solute transport By: Kohne, JM; Mohanty, BP; Simunek, J Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 1 Pages: 59-76 Published: FEB 2006	5	5	3	6	0	29	3.22
62.	Title: Mechanisms and pathways of trace element mobility in soils By: Carrillo-Gonzalez, R.; Simunek, Jirka; Sauve, Sebastien; et al. Edited by: Sparks, DL Source: ADVANCES IN AGRONOMY, VOL 91 Book Series: Advances in Agronomy Volume: 91 Pages: 111-178 Published: 2006	3	1	8	6	0	28	3.11
63.	Title: Estimating hysteresis in the soil water retention function from cone permeameter experiments By: Simunek, J; Kodesova, R; Gribb, MM; et al. Source: WATER RESOURCES RESEARCH Volume: 35 Issue: 5 Pages: 1329-1345 Published: MAY 1999	1	2	3	4	0	28	1.75
64.	Title: Parameter estimation of unsaturated soil hydraulic properties from transient flow processes By: Simunek, J; van Genuchten, MT; Gribb, MM; et al. Conference: Symposium 1 on New Concepts and Theories in Soil Physics at the World Congress of Soil Science Location: MONTPELLIER, FRANCE Date: AUG 20-26, 1998 Source: SOIL & TILLAGE RESEARCH Volume: 47 Issue: 1-2 Pages: 27-36 Published: JUN 22 1998	2	1	2	3	0	28	1.65
65.	Title: Multicomponent geochemical transport modeling using HYDRUS-1D and HP1 By: Simunek, Jirka; Jacques, Diederik; van Genuchten, Martinus Th.; et al. Conference: Summer Specialty Conference of the American-Water-Resources-Association Location: Honolulu, HI Date: JUN, 2005 Sponsor(s): Amer Water Resources Assoc Source: JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION Volume: 42 Issue: 6 Pages: 1537-1547 Published: DEC 2006	6	4	2	4	0	26	2.89
66.	Title: Single-porosity and dual-porosity modeling of water flow and solute	0	6	3	7	0	26	2.60

	transport in subsurface-drained fields using effective field-scale parameters By: Haws, NW; Rao, PSC; Simunek, J; et al. Source: JOURNAL OF HYDROLOGY Volume: 313 Issue: 3-4 Pages: 257-273 Published: NOV 10 2005									
67.	Title: Straining of colloids at textural interfaces By: Bradford, SA; Simunek, J; Bettahar, M; et al. Source: WATER RESOURCES RESEARCH Volume: 41 Issue: 10 Article Number: W10404 Published: OCT 11 2005	6	3	3	0	0	26	2.60		
68.	Title: Impact of varying soil structure on transport processes in different diagnostic horizons of three soil types By: Kodesova, Radka; Vignozzi, Nadia; Rohoskova, Marcela; et al. Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 104 Issue: 1-4 Pages: 107-125 Published: FEB 16 2009	4	7	7	3	0	25	4.17		
69.	Title: Sensitivity analysis of physical and chemical properties affecting field-scale cadmium transport in a heterogeneous soil profile By: Seuntjens, P; Mallants, D; Simunek, J; et al. Source: JOURNAL OF HYDROLOGY Volume: 264 Issue: 1-4 Pages: 185-200 Article Number: PII S0022-1694(02)00071-9 Published: JUL 30 2002	2	0	7	2	0	25	1.92		
70.	Title: Estimating unsaturated soil hydraulic properties from laboratory tension disc infiltrometer experiments By: Simunek, J; Wendroth, O; van Genuchten, MT Source: WATER RESOURCES RESEARCH Volume: 35 Issue: 10 Pages: 2965-2979 Published: OCT 1999	0	3	2	3	0	25	1.56		
71.	Title: Bacteria transport and deposition under unsaturated flow conditions: The role of water content and bacteria surface hydrophobicity By: Gargiulo, G.; Bradford, S. A.; Simunek, J.; et al. Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 406-419 Published: MAY 2008	2	5	6	7	0	24	3.43		
72.	Title: Subsurface water distribution from drip irrigation described by moment analyses By: Lazarovitch, N.; Warrick, A. W.; Furman, A.; et al. Source: VADOSE ZONE JOURNAL Volume: 6 Issue: 1 Pages: 116-123 Published: FEB 2007	7	5	3	3	0	23	2.88		
73.	Title: Multi-functional heat pulse probe measurements of coupled vadose zone flow and transport By: Mortensen, AP; Hopmans, JW; Mori, Y; et al. Source: ADVANCES IN WATER RESOURCES Volume: 29 Issue: 2 Pages: 250-267 Published: FEB 2006	3	3	3	4	0	23	2.56		
74.	Title: Modeling the coupled effects of pore space geometry and velocity on colloid transport and retention By: Bradford, Scott A.; Torkzaban, Saeed; Leij, Feike; et al. Source: WATER RESOURCES RESEARCH Volume: 45 Article Number: W02414 Published: FEB 12 2009	4	8	3	5	0	22	3.67		
75.	Title: Transport of Manure-Based Applied Sulfadiazine and Its Main Transformation Products in Soil Columns By: Unold, M.; Simunek, J.; Kasteel, R.; et al. Source: VADOSE ZONE JOURNAL Volume: 8 Issue: 3 Pages: 677-	2	5	4	7	2	21	3.50		

689 Published: AUG 2009

76.	Title: Impact of soil micromorphological features on water flow and herbicide transport in soils By: Kodesova, Radka; Kocarek, Martin; Kodes, Vit; et al. Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 798-809 Published: MAY 2008	3	6	4	2	0	21	3.00
77.	Title: Evaluating equilibrium and non-equilibrium transport of bromide and isoproturon in disturbed and undisturbed soil columns By: Dousset, S.; Thevenot, M.; Pot, V.; et al. Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 94 Issue: 3-4 Pages: 261-276 Published: DEC 7 2007	2	6	4	3	1	21	2.62
78.	Title: Multiyear heterotrophic soil respiration: Evaluation of a coupled CO2 transport and carbon turnover model By: Herbst, M.; Hellebrand, H. J.; Bauer, J.; et al. Source: ECOLOGICAL MODELLING Volume: 214 Issue: 2-4 Pages: 271-283 Published: JUN 24 2008	3	2	8	2	0	20	2.86
79.	Title: Modeling transport of microbes in ten undisturbed soils under effluent irrigation By: Pang, Liping; McLeod, Malcolm; Aislabie, Jacqueline; et al. Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 1 Pages: 97-111 Published: FEB 2008	2	4	5	7	0	20	2.86
80.	Title: Transport and deposition of metabolically active and stationary phase <i>Deinococcus radiodurans</i> in unsaturated porous media By: Gargiulo, G.; Bradford, S. A.; Simunek, J.; et al. Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 41 Issue: 4 Pages: 1265-1271 Published: FEB 15 2007	4	2	3	4	0	20	2.50
81.	Title: Water and solute transport in a cultivated silt loam soil: 1. Field observations By: Coquet, Y; Coutadeur, C; Labat, C; et al. Source: VADOSE ZONE JOURNAL Volume: 4 Issue: 3 Pages: 573-586 Published: AUG 2005	0	4	2	3	0	20	2.00
82.	Title: Numerical simulations of water movement in a subsurface drip irrigation system under field and laboratory conditions using HYDRUS-2D By: Kandelous, Maziar M.; Simunek, Jiri Source: AGRICULTURAL WATER MANAGEMENT Volume: 97 Issue: 7 Pages: 1070-1076 Published: JUL 2010	0	5	4	9	1	19	3.80
83.	Title: Operator-splitting errors in coupled reactive transport codes for transient variably saturated flow and contaminant transport in layered soil profiles By: Jacques, D.; Simunek, J.; Mallants, D.; et al. Source: JOURNAL OF CONTAMINANT HYDROLOGY Volume: 88 Issue: 3-4 Pages: 197-218 Published: DEC 15 2006	5	2	2	0	0	19	2.11
84.	Title: A modified upward infiltration method for characterizing soil hydraulic properties By: Young, MH; Karagunduz, A; Simunek, J; et al. Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 66 Issue: 1 Pages: 57-64 Published: JAN-FEB 2002	1	2	4	3	0	19	1.46

85.	Title: Application of a two-dimensional model to simulate flow and transport in a macroporous agricultural soil with tile drains By: Abbaspour, KC; Kohler, A; Simunek, J; et al. Source: EUROPEAN JOURNAL OF SOIL SCIENCE Volume: 52 Issue: 3 Pages: 433-447 Published: SEP 2001	0	1	0	0	0	19	1.36
86.	Title: Development of Pedotransfer Functions for Estimation of Soil Hydraulic Parameters using Support Vector Machines By: Twarakavi, Navin K. C.; Simunek, Jirka; Schaap, M. G. Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 73 Issue: 5 Pages: 1443-1452 Published: SEP-OCT 2009	3	3	5	6	0	18	3.00
87.	Title: Water and Vapor Movement with Condensation and Evaporation in a Sandy Column By: Sakai, Masaru; Toride, Nobuo; Simunek, Jiri Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 73 Issue: 3 Pages: 707-717 Published: MAY-JUN 2009	1	7	5	4	0	18	3.00
88.	Title: Inverse mobile-immobile modeling of transport during transient flow: Effects of between-domain transfer and initial water content By: Kohne, JM; Kohne, S; Mohanty, BP; et al. Source: VADOSE ZONE JOURNAL Volume: 3 Issue: 4 Pages: 1309-1321 Published: NOV 2004	2	1	3	2	0	18	1.64
89.	Title: Lateral Water Diffusion in an Artificial Macroporous System: Modeling and Experimental Evidence By: Castiglione, P.; Mohanty, B. P.; Shouse, P. J.; et al. Source: VADOSE ZONE JOURNAL Volume: 2 Issue: 2 Pages: 212-221 Published: MAY 2003	1	1	3	1	0	18	1.50
90.	Title: Inverse analyses of transport of chlorinated hydrocarbons subject to sequential transformation reactions By: Casey, FXM; Simunek, J Source: JOURNAL OF ENVIRONMENTAL QUALITY Volume: 30 Issue: 4 Pages: 1354-1360 Published: JUL-AUG 2001	0	1	2	1	0	18	1.29
91.	Title: Modeling colloid transport and retention in saturated porous media under unfavorable attachment conditions By: Bradford, Scott A.; Torkzaban, Saeed; Simunek, Jiri Source: WATER RESOURCES RESEARCH Volume: 47 Article Number: W10503 Published: OCT 6 2011	0	0	5	12	0	17	4.25
92.	Title: Characterizing pesticide sorption and degradation in microscale biopurification systems using column displacement experiments By: De Wilde, Tineke; Mertens, Jan; Simunek, Jirka; et al. Source: ENVIRONMENTAL POLLUTION Volume: 157 Issue: 2 Pages: 463-473 Published: FEB 2009	7	1	4	4	0	17	2.83
93.	Title: Modelling coupled water flow, solute transport and geochemical reactions affecting heavy metal migration in a podzol soil By: Jacques, D.; Simunek, J.; Mallants, D.; et al. Source: GEODERMA Volume: 145 Issue: 3-4 Pages: 449-461 Published: JUN 15 2008	4	2	5	5	0	17	2.43
94.	Title: Modeling coupled hydrologic and chemical processes: Long-term uranium transport following phosphorus fertilization By: Jacques, D.; Simunek, J.; Mallants, D.; et al.	0	4	3	5	0	17	2.43

95.	Title: Spatially distributed water fluxes in an andisol under banana plants: Experiments and three-dimensional modeling							
	By: Sansoulet, Julie; Cabidoche, Yves-Marie; Cattan, Philippe; et al.	1	3	2	4	0	17	2.43
	Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 2 Pages: 819-829 Published: MAY 2008							
96.	Title: Bromide transport at a tile-drained field site: experiment, and one- and two-dimensional equilibrium and non-equilibrium numerical modeling							
	By: Kohne, S; Lennartz, B; Kohne, JM; et al.	2	6	1	4	0	17	1.89
	Source: JOURNAL OF HYDROLOGY Volume: 321 Issue: 1-4 Pages: 390-408 Published: APR 30 2006							
97.	Title: Field-scale water flow simulations using ensembles of pedotransfer functions for soil water retention							
	By: Guber, AK; Pachepsky, YA; van Genuchten, MT; et al.	3	1	2	5	0	17	1.89
	Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 1 Pages: 234-247 Published: FEB 2006							
98.	Title: Inverse estimation of soil hydraulic and solute transport parameters from transient field experiments: Heterogeneous soil							
	By: Abbasi, F; Jacques, D; Simunek, J; et al.	1	1	3	2	0	17	1.42
	Source: TRANSACTIONS OF THE ASAE Volume: 46 Issue: 4 Pages: 1097-1111 Published: JUL-AUG 2003							
99.	Title: Comparison of numerical, analytical, and empirical models to estimate wetting patterns for surface and subsurface drip irrigation							
	By: Kandelous, Maziar M.; Simunek, Jiri	1	2	5	8	0	16	3.20
	Source: IRRIGATION SCIENCE Volume: 28 Issue: 5 Pages: 435-444 Published: JUL 2010							
100.	Title: An objective analysis of the dynamic nature of field capacity							
	By: Twarakavi, Navin K. C.; Sakai, Masaru; Simunek, Jirka	2	4	2	8	0	16	2.67
	Source: WATER RESOURCES RESEARCH Volume: 45 Article Number: W10410 Published: OCT 7 2009							
101.	Title: Estimation of the unsaturated hydraulic conductivity of peat soils: Laboratory versus field data							
	By: Schwarzl, K; Simunek, J; Stoffregen, H; et al.	2	1	3	2	0	16	1.78
	Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 2 Pages: 628-640 Published: MAY 2006							
102.	Title: Inverse analysis of upward water flow in a groundwater table lysimeter							
	By: Kelleners, TJ; Soppe, RWO; Ayars, JE; et al.	3	2	4	1	0	16	1.60
	Source: VADOSE ZONE JOURNAL Volume: 4 Issue: 3 Pages: 558-572 Published: AUG 2005							
103.	Title: Field evaluation of a multicomponent solute transport model in soils irrigated with saline waters							
	By: Ramos, T. B.; Simunek, J.; Goncalves, M. C.; et al.	0	0	7	7	1	15	3.75
	Source: JOURNAL OF HYDROLOGY Volume: 407 Issue: 1-4 Pages: 129-144 Published: SEP 15 2011							
104.	Title: Estimation of the Dual-Permeability Model Parameters using	1	2	4	7	1	15	3.00

	Source: JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING-ASCE Volume: 123 Issue: 5 Pages: 336-343 Published: SEP-OCT 1997						
113.	Title: Measurement and modeling of soil-water dynamics and evapotranspiration of drained peatland soils By: Schwaerzel, Kai; Simunek, Jirka; van Genuchten, Martinus Th.; et al. Source: JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE-ZEITSCHRIFT FUR PFLANZENERNAHRUNG UND BODENKUNDE Volume: 169 Issue: 6 Pages: 762-774 Published: DEC 2006						
	3	3	2	1	0	14	1.56
114.	Title: Impact of plant roots and soil organisms on soil micromorphology and hydraulic properties By: Kodesova, Radka; Kodes, Vit; Zigova, Anna; et al. Conference: BIOHYDROLOGY 2006 International Conference Location: Prague, CZECH REPUBLIC Date: SEP 20-22, 2006 Source: BIOLOGIA Volume: 61 Supplement: 19 Pages: S339-S343 Published: 2006						
	1	1	2	0	0	14	1.56
115.	Title: Water and chloride transport in a fine-textured soil: Field experiments and modeling By: Ventrella, D; Mohanty, BP; Simunek, J; et al. Source: SOIL SCIENCE Volume: 165 Issue: 8 Pages: 624-631 Published: AUG 2000						
	1	2	0	0	0	14	0.93
116.	Title: Modeling flow and transport processes at the local scale By: van Genuchten, MT; Schaap, MG; Mohanty, BP; et al. Edited by: Feyen, J; Wiyo, K Conference: International Workshop of the European-Society-of-Agricultural-Engineers Field of Interest on Soil and Water Location: LEUVEN, BELGIUM Date: NOV 24-26, 1999 Sponsor(s): European Soc Agr Engineers, Soil & Water Interest Grp; CIGR; ICID; CIID; CNR; Katholieke Univ Leuven, Fac Agr & Appl Biol Sci; Inst Land & Water Management Source: MODELLING OF TRANSPORT PROCESSES IN SOILS: AT VARIOUS SCALES IN TIME AND SPACE Pages: 23-45 Published: 1999						
	0	0	0	1	0	14	0.88
117.	Title: Modeling water flow and bacterial transport in undisturbed lysimeters under irrigations of dairy shed effluent and water using HYDRUS-1D By: Jiang, Shuang; Pang, Liping; Buchan, Graeme D.; et al. Source: WATER RESEARCH Volume: 44 Issue: 4 Special Issue: SI Pages: 1050-1061 Published: FEB 2010						
	0	4	2	6	1	13	2.60
118.	Title: Water and solute transport in a cultivated silt loam soil: 2. Numerical analysis By: Coquet, Y; Simunek, J; Coutadeur, C; et al. Source: VADOSE ZONE JOURNAL Volume: 4 Issue: 3 Pages: 587-601 Published: AUG 2005						
	1	3	3	0	1	13	1.30
119.	Title: Estimating soil hydraulic parameters from transient flow experiments in a centrifuge using parameter optimization technique By: Simunek, J; Nimmo, JR Source: WATER RESOURCES RESEARCH Volume: 41 Issue: 4 Article Number: W04015 Published: APR 27 2005						
	0	1	2	2	0	13	1.30
120.	Title: Development of cone penetrometer method to determine soil hydraulic properties By: Gribb, MM; Simunek, J; Leonard, MF Source: JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL						
	0	0	1	0	0	13	0.76

ENGINEERING	Volume: 124	Issue: 9	Pages: 820-829	Published: SEP			
							1998
121.	Title: Kirkham's Legacy and Contemporary Challenges in Soil Physics Research						
	By: Jury, W. A.; Or, D.; Pachepsky, Y.; et al.	0	0	4	8	0	12
	Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL						3.00
	Volume: 75 Issue: 5 Pages: 1589-1601 Published: SEP 2011						
122.	Title: Numerical evaluation of a set of analytical infiltration equations						
	By: Lassabatere, L.; Angulo-Jaramillo, R.; Soria-Ugalde, J. M.; et al.	4	2	3	3	0	12
	Source: WATER RESOURCES RESEARCH						2.00
	Volume: 45 Article Number: W12415 Published: DEC 19 2009						
123.	Title: Multimodel Simulation of Water Flow in a Field Soil Using Pedotransfer Functions						
	By: Guber, A. K.; Pachepsky, Ya. A.; van Genuchten, M. Th.; et al.	2	1	5	4	0	12
	Source: VADOSE ZONE JOURNAL						2.00
	Volume: 8 Issue: 1 Pages: 1-10 Published: FEB 2009						
124.	Title: Leaching risk of N-nitrosodimethylamine (NDMA) in soil receiving reclaimed wastewater						
	By: Haruta, Shinsuke; Chen, Weiping; Gan, Jay; et al.	1	4	2	4	0	12
	Source: ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY						1.71
	Volume: 69 Issue: 3 Pages: 374-380 Published: MAR 2008						
125.	Title: Evaluation of bacteria-facilitated cadmium transport in gravel columns using the HYDRUS colloid-facilitated solute transport model						
	By: Pang, Liping; Simunek, Jirka	2	1	0	2	0	12
	Source: WATER RESOURCES RESEARCH						1.33
	Volume: 42 Issue: 12 Article Number: W12S10 Published: OCT 21 2006						
126.	Title: Analysis of field tension disc infiltrometer data by parameter estimation.						
	By: Simunek, J.; Wang Dong; Shouse, P. J.; et al.	0	0	1	1	0	12
	Source: International Agrophysics						0.71
	Volume: 12 Issue: 3 Pages: 167-180 Published: 1998						
127.	Title: Can texture-based classification optimally classify soils with respect to soil hydraulics?						
	By: Twarakavi, Navin K. C.; Simunek, Jirka; Schaap, M. G.	0	2	5	4	0	11
	Source: WATER RESOURCES RESEARCH						2.20
	Volume: 46 Article Number: W01501 Published: JAN 1 2010						
128.	Title: Landscape models for simulating water quality at point, field, and watershed scales						
	By: Srivastava, P.; Migliaccio, K. W.; Simunek, J.	3	3	1	2	0	11
	Source: TRANSACTIONS OF THE ASABE						1.38
	Volume: 50 Issue: 5 Pages: 1683-1693 Published: SEP-OCT 2007						
129.	Title: A third-order numerical scheme with upwind weighting for solving the solute transport equation						
	By: Huang, KL; Simunek, J; VanGenuchten, MT	1	1	0	0	0	11
	Source: INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING						0.61
	Volume: 40 Issue: 9 Pages: 1623-1637 Published: MAY 15 1997						

130.	Title: Dissolution and transport of 2,4-DNT and 2,6-DNT from M1 propellant in soil By: Dontsova, Katerina M.; Pennington, Judith C.; Hayes, Charolett; et al. Source: CHEMOSPHERE Volume: 77 Issue: 4 Pages: 597-603 Published: OCT 2009	0	2	6	2	0	10	1.67
131.	Title: Copper mobility in soils as affected by sewage sludge and low molecular weight organic acids By: Bahaminyakamwe, L; Simunek, J; Dane, JH; et al. Source: SOIL SCIENCE Volume: 171 Issue: 1 Pages: 29-38 Published: JAN 2006	2	0	1	2	0	10	1.11
132.	Title: Integrated modeling of vadose-zone flow and transport processes By: van Genuchten, M. T.; Simunek, Jirka Edited by: Feddes, RA; DeRooij, GH; VanDam, JC Conference: Symposium on Unsaturated Zone Modeling Location: Wageningen, NETHERLANDS Date: OCT 03-05, 2004 Source: Unsaturated-Zone Modeling: Progress, Challenges and Applications Book Series: WAGENINGEN UR FRONTIS SERIES Volume: 6 Pages: 37-69 Published: 2004	0	0	2	0	0	10	0.91
133.	Title: Solute transport modeling under variably saturated water flow conditions By: Suarez, DL; Simunek, J Edited by: Lichtner, PC; Steefel, CI; Oelkers, EH Conference: Short Course on Reactive Transport in Porous Media Location: GOLDEN, CO Date: OCT 25-27, 1996 Sponsor(s): Mineral Soc Amer Source: REACTIVE TRANSPORT IN POROUS MEDIA Book Series: REVIEWS IN MINERALOGY Volume: 34 Pages: 229-268 Published: 1996	1	0	0	0	0	10	0.53
134.	Title: Numerical simulation of flow dynamics during macropore-subsurface drain interactions using HYDRUS By: Akay, Onur; Fox, Garey A.; Simunek, Jirka Source: VADOSE ZONE JOURNAL Volume: 7 Issue: 3 Pages: 909-918 Published: AUG 2008	1	1	4	2	0	9	1.29
135.	Title: Verification of numerical solutions of the Richards equation using a traveling wave solution By: Zlotnik, Vitaly A.; Wang, Tiejun; Nieber, John L.; et al. Source: ADVANCES IN WATER RESOURCES Volume: 30 Issue: 9 Pages: 1973-1980 Published: SEP 2007	1	5	2	0	0	9	1.12
136.	Title: Variably saturated reactive transport of arsenic in heap-leach facilities By: Decker, DL; Simunek, J; Tyler, SW; et al. Source: VADOSE ZONE JOURNAL Volume: 5 Issue: 1 Pages: 430-444 Published: FEB 2006	0	0	1	2	0	9	1.00
137.	Title: The Effect of the Spatial Sensitivity of TDR on Inferring Soil Hydraulic Properties from Water Content Measurements Made during the Advance of a Wetting Front By: Ferre, Ty P. A.; Nissen, Henrik H.; Simunek, Jirka Source: VADOSE ZONE JOURNAL Volume: 1 Issue: 2 Pages: 281-288 Published: NOV 2002	2	0	1	0	0	9	0.69
138.	Title: The effects of preferential flow and soil texture on risk assessments	1	2	3	2	0	8	1.60

based numerical model

By: Buchner, Jens S.; Simunek, Jiri; Lee, Juhwan; et al.

Source: JOURNAL OF HYDROLOGY Volume: 361 Issue: 1-2 Pages: 131-143 Published: OCT 30 2008

148. Title: A new approach to estimate soil hydraulic parameters using only soil water retention data

By: Twarakavi, Navin K. C.; Saito, Hirotaka; Simunek, Jirka; et al.

Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 72 Issue: 2 Pages: 471-479 Published: MAR-APR 2008

149. Title: Uniqueness of soil hydraulic parameters determined by a combined wooding inverse approach

By: Lazarovitch, N.; Ben-Gal, A.; Simunek, J.; et al.

Source: SOIL SCIENCE SOCIETY OF AMERICA JOURNAL Volume: 71 Issue: 3 Pages: 860-865 Published: MAY-JUN 2007

150. Title: Error analysis of soil temperature simulations using measured and estimated hourly weather data with 2DSOIL

By: Timlin, DJ; Pachepsky, Y; Acock, BA; et al.

Source: AGRICULTURAL SYSTEMS Volume: 72 Issue: 3 Pages: 215-239 Article Number: PII S0308-521X(01)00075-0 Published: JUN 2002

1	1	2	1	1	7	1.00	
2	3	0	1	0	7	0.88	
0	2	2	1	0	7	0.54	