

# CITATION REPORT

List of articles citing

**A new model for predicting the hydraulic conductivity of unsaturated porous media**

**DOI: 10.1029/wr012i003p00513**

**Water Resources Research, 1976, 12, 513-522.**

**Source:** <https://exaly.com/paper-pdf/12542756/citation-report.pdf>

**Version:** 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

| #    | Paper   | IF  | Citations |
|------|---|-----|-----------|
| 2294 | Hysteretical models for prediction of the hydraulic conductivity of unsaturated porous media. <i>Water Resources Research</i> , <b>1976</b> , 12, 1248-1254                               | 5.4 | 102       |
| 2293 | Hydraulic conductivity of unsaturated porous media: Generalized macroscopic approach. <i>Water Resources Research</i> , <b>1978</b> , 14, 325-334   | 5.4 | 106       |
| 2292 | Model for Annual Water and Energy Flow in a Layered Soil. <b>1979</b> , 9, 145-163  |     | 69        |
| 2291 | Comments on "Empirical equations for some soil hydraulic properties" by Roger B. Clapp and George M. Hornberger. <i>Water Resources Research</i> , <b>1979</b> , 15, 989-990              | 5.4 | 6         |
| 2290 | Unsaturated-zone water. <b>1979</b> , 17, 1221  |     | 3         |
| 2289 | Comparison of measured and estimated unsaturated hydraulic conductivity. <i>Water Resources Research</i> , <b>1980</b> , 16, 749-754  | 5.4 | 13        |
| 2288 | A model for frost heave including overburden. <b>1980</b> , 3, 111-127  |     | 34        |
| 2287 | Identification of Soil Parameters for an Infiltration Problem. <b>1982</b> , 1063-1072  |     | 1         |
| 2286 | Moisture and heat transport in hysteretic, inhomogeneous porous media: A matric head-based formulation and a numerical model. <i>Water Resources Research</i> , <b>1982</b> , 18, 489-498 | 5.4 | 278       |
| 2285 | The permeability of a melting snow cover. <i>Water Resources Research</i> , <b>1982</b> , 18, 904-908   | 5.4 | 81        |
| 2284 | On subsurface stormflow: Predictions with simple kinematic theory for saturated and unsaturated flows. <i>Water Resources Research</i> , <b>1982</b> , 18, 1627-1633                      | 5.4 | 126       |
| 2283 | Experimental relative permeability curves compared with a new cutting and joining model of porous media with a distribution of pore sizes. <b>1982</b> , 31, 143-151                      |     | 3         |
| 2282 | A lumped-parameter model for infiltration. <b>1982</b> , 57, 175-185  |     | 3         |
| 2281 | Compaction of Desert Soils by Off-Road Vehicles. <b>1983</b> , 51-79  |     | 19        |
| 2280 | Simplified determination and sensitivity analysis of soil-moisture retention curves and hydraulic conductivity. <b>1984</b> , 74, 295-309   |     | 3         |
| 2279 | A Simulation Analysis of Thermal Effects on Evaporation From Soil. <i>Water Resources Research</i> , <b>1984</b> , 20, 1087-1098  | 5.4 | 137       |
| 2278 | Techniques for Making Finite Elements Competitive in Modeling Flow in Variably Saturated Porous Media. <i>Water Resources Research</i> , <b>1984</b> , 20, 1099-1115                      | 5.4 | 144       |

|      |   |     |     |
|------|---|-----|-----|
| 2277 | On estimating the hydraulic properties of soil, Part 1. Comparison between forms to estimate the soil-water characteristic function. <b>1985</b> , 8, 136-147 |     | 17  |
| 2276 | On estimating the hydraulic properties of soil, Part 2. A new empirical equation for estimating hydraulic conductivity for sands. <b>1985</b> , 8, 148-153    |     | 9   |
| 2275 | A Field Method to Determine Unsaturated Hydraulic Conductivity Using Flow Nets. <i>Water Resources Research</i> , <b>1985</b> , 21, 45-50                     | 5-4 | 8   |
| 2274 | Comparison of different measuring and calculating methods to quantify the hydraulic conductivity of unsaturated soil. <b>1985</b> , 148, 607-617              |     | 13  |
| 2273 | Hydrologic Mechanisms Governing Fluid Flow in a Partially Saturated, Fractured, Porous Medium. <i>Water Resources Research</i> , <b>1985</b> , 21, 1861-1874  | 5-4 | 157 |
| 2272 | Diurnal groundwater level fluctuations in sandy till – A model analysis. <b>1986</b> , 87, 125-134  |     | 14  |
| 2271 | Presentation and application of an analytical model to describe soil hydraulic properties. <b>1986</b> , 87, 135-143  |     | 15  |
| 2270 | Deterministic hydrological site and catchment models for the analysis of agroecosystems. <b>1986</b> , 13, 119-137  |     | 15  |
| 2269 | Water flow and solute transport processes in the unsaturated zone. <i>Water Resources Research</i> , <b>1986</b> , 22, 895-1085                               | 5-4 | 359 |
| 2268 | Soil Water Distribution. <b>1986</b> , 93-116   |     | 1   |
| 2267 | Stimulated and Measured Soil Water Dynamics of Unfertilized and Fertilized Barley. <b>1986</b> , 36, 162-172  |     | 23  |
| 2266 | On estimating the hydraulic properties of soil, Part 3. Parameters of the Philip infiltration equation. <b>1986</b> , 9, 16-23                                |     |     |
| 2265 | Modeling Saturated-Unsaturated Water Flow in Soils. <b>1987</b> , 113, 233-250  |     | 6   |
| 2264 | Simulated soil temperature and moisture at a clearcutting in central Sweden. <b>1987</b> , 2, 127-140   |     | 31  |
| 2263 | Transport of Pollutants: Summary Review of Physical Dispersion Models. <b>1987</b> , 77, 125-149  |     | 7   |
| 2262 | Development and evaluation of closed-form expressions for hysteretic soil hydraulic properties. <i>Water Resources Research</i> , <b>1987</b> , 23, 105-114   | 5-4 | 335 |
| 2261 | A parametric model for constitutive properties governing multiphase flow in porous media. <i>Water Resources Research</i> , <b>1987</b> , 23, 618-624         | 5-4 | 506 |
| 2260 | Estimation of Brooks-Corey Parameters from water retention data. <i>Water Resources Research</i> , <b>1987</b> , 23, 1085-1089                                | 5-4 | 41  |

|      |  |     |     |
|------|--|-----|-----|
| 2259 | A model for hysteretic constitutive relations governing multiphase flow: 2. Permeability-saturation relations. <i>Water Resources Research</i> , <b>1987</b> , 23, 2197-2206         | 5-4 | 205 |
| 2258 | Regression models for hydraulic conductivity and field test of the borehole permeameter. <i>Water Resources Research</i> , <b>1987</b> , 23, 2207-2214                               | 5-4 | 37  |
| 2257 | Predicting Unsaturated Hydraulic Conductivity from Soil Texture. <b>1987</b> , 113, 184-197  |     | 20  |
| 2256 | Simulation of water discharge rates from a clay-till soil over a ten year period. <b>1987</b> , 92, 263-274  |     | 9   |
| 2255 | Analysis of a closed-form analytical model to predict the hydraulic conductivity function. <b>1987</b> , 92, 289-300   |     | 12  |
| 2254 | Estimation of groundwater recharge in sandy till with two different methods using groundwater level fluctuations. <b>1987</b> , 90, 183-198  |     | 26  |
| 2253 | On the reliability of unsaturated hydraulic conductivity calculated from the moisture retention curve. <b>1988</b> , 3, 1-15   |     | 168 |
| 2252 | Vadose Zone Characterization of Low-Permeability Sediments Using Field Permeameters. <b>1988</b> , 8, 59-66  |     | 5   |
| 2251 | Modeling tracer diffusion in fractured and unfractured, unsaturated, porous media. <b>1988</b> , 3, 145-170  |     | 5   |
| 2250 | Analysis of the inverse problem for transient unsaturated flow. <i>Water Resources Research</i> , <b>1988</b> , 24, 817-830  | 5-4 | 178 |
| 2249 | Sensitivity analysis of closed-form analytical hydraulic conductivity models. <b>1988</b> , 101, 159-172   |     | 3   |
| 2248 | The variability of soil moisture diffusivity of loamy to silty soils on marl, determined by the hot air method. <b>1988</b> , 97, 235-250  |     | 9   |
| 2247 | Numerical analysis of the nonsteady transport of interacting solutes through unsaturated soil: 1. Homogeneous systems. <i>Water Resources Research</i> , <b>1988</b> , 24, 271-284   | 5-4 | 27  |
| 2246 | A continuum model for water movement in an unsaturated fractured rock mass. <i>Water Resources Research</i> , <b>1988</b> , 24, 416-430  | 5-4 | 134 |
| 2245 | Determining soil hydraulic properties by parameter estimation: On the selection of a model for the hydraulic properties. <i>Water Resources Research</i> , <b>1988</b> , 24, 453-459 | 5-4 | 260 |
| 2244 | Field estimation of the soil hydraulic characteristics. <b>1988</b> , 1, 63-75   |     | 8   |
| 2243 | Evaluation of various computational schemes in calculating unsaturated hydraulic conductivity. <b>1988</b> , 13, 317-327   |     | 9   |
| 2242 | Modeling multiphase migration of organic chemicals in groundwater systems--a review and assessment. <b>1989</b> , 83, 117-43   |     | 46  |

|      |   |     |     |
|------|---|-----|-----|
| 2241 | Tillage and Compactive Effects on Soil Hydraulic Properties and Water Flow. <b>1989</b> , 187-203   |     | 4   |
| 2240 | Modeling microclimate environments: A verification study. <b>1989</b> , 46, 333-354   |     | 25  |
| 2239 | Methods for the analysis of agro-ecosystems in central Europe, with emphasis on geoecological aspects. <b>1989</b> , 16, 1-57   |     | 6   |
| 2238 | Modeling one-dimensional infiltration into very dry soils: 2. Estimation of the soil water parameters and model predictions. <i>Water Resources Research</i> , <b>1989</b> , 25, 1271-1282                                | 5-4 | 61  |
| 2237 | Modeling soil seal as a nonuniform layer. <i>Water Resources Research</i> , <b>1989</b> , 25, 2101-2108   | 5-4 | 62  |
| 2236 | A consistent set of parametric models for the two-phase flow of immiscible fluids in the subsurface. <i>Water Resources Research</i> , <b>1989</b> , 25, 2187-2193  | 5-4 | 290 |
| 2235 | Use of remotely sensed soil moisture content as boundary conditions in soil-atmosphere water transport modeling: 1. Field validation of a water flow model. <i>Water Resources Research</i> , <b>1989</b> , 25, 2423-2435 | 5-4 | 33  |
| 2234 | Multiphase flow and transport in porous media. <b>1989</b> , 27, 311  |     | 105 |
| 2233 | Numerical modeling of coupled heat and water flows during drying in a stratified bare soil â Comparison with field observations. <b>1989</b> , 105, 109-138   |     | 38  |
| 2232 | Scaling of soil hydraulic properties in the evaluation of hydraulic conductivity determination methods. <b>1989</b> , 2, 163-170  |     | 2   |
| 2231 | ANALYSIS OF INVERSE PROBLEM FOR HYDRAULIC PROPERTIES OF UNSATURATED FLOW. <b>1989</b> , 1989, 127-135   |     |     |
| 2230 | On the Relation Between Saturated Conductivity and Capillary Retention Characteristics. <b>1990</b> , 28, 775-777   |     | 27  |
| 2229 | A review of immiscible fluids in the subsurface: Properties, models, characterization and remediation. <b>1990</b> , 6, 107-163   |     | 527 |
| 2228 | Use of parameter estimation in determining soil hydraulic properties from unsaturated transient flow. <b>1990</b> , 4, 1-19   |     | 2   |
| 2227 | Determining three-phase permeabilityâsaturationâpressure relations from two-phase system measurements. <b>1990</b> , 4, 57-65   |     | 21  |
| 2226 | A simple iterative method for the simultaneous determination of soil hydraulic properties from one-step outflow data. <i>Water Resources Research</i> , <b>1990</b> , 26, 143-152   | 5-4 | 19  |
| 2225 | Hydraulic conductivity and unfrozen water content of air-free frozen silt. <i>Water Resources Research</i> , <b>1990</b> , 26, 323-329  | 5-4 | 24  |
| 2224 | Exact integral solutions for two-phase flow. <i>Water Resources Research</i> , <b>1990</b> , 26, 399-413  | 5-4 | 212 |

|      |  |     |     |
|------|--|-----|-----|
| 2223 | Fractal processes in soil water retention. <i>Water Resources Research</i> , <b>1990</b> , 26, 1047-1054   | 5-4 | 275 |
| 2222 | Effective unsaturated hydraulic conductivity of layered sands. <i>Water Resources Research</i> , <b>1990</b> , 26, 1271-1279   | 5-4 | 36  |
| 2221 | Biofilm growth and the related changes in the physical properties of a porous medium: 2. Permeability. <i>Water Resources Research</i> , <b>1990</b> , 26, 2161-2169               | 5-4 | 148 |
| 2220 | Absorption of Water Into Porous Blocks of Various Shapes and Sizes. <i>Water Resources Research</i> , <b>1990</b> , 26, 2797-2806  | 5-4 | 38  |
| 2219 | A comparison of measured and simulated soil temperature using air temperature and soil surface energy balance as boundary conditions. <b>1990</b> , 53, 59-72                      |     | 19  |
| 2218 | Water and solute movement in a coarse-textured water-repellent field soil. <b>1990</b> , 120, 359-379  |     | 77  |
| 2217 | A method for modeling water tables at debris avalanche headscarps. <b>1990</b> , 113, 61-88  |     | 10  |
| 2216 | Hydraulic properties in an operational model of frozen soil. <b>1990</b> , 118, 289-310  |     | 99  |
| 2215 | Water balance and soil moisture dynamics of field plots with barley and grass ley. <b>1991</b> , 129, 149-173  |     | 44  |
| 2214 | Groundwater flow patterns in the vicinity of underground openings in unsaturated rock. <b>1991</b> , 127, 1-21   |     | 8   |
| 2213 | Laboratory determination of unsaturated hydraulic conductivity using a generalized-form hydraulic model. <b>1991</b> , 128, 293-304  |     | 9   |
| 2212 | Surface runoff and soil water percolation as affected by snow and soil frost. <b>1991</b> , 122, 141-159   |     | 109 |
| 2211 | Effect of interfacial forces on two-phase capillary pressure-saturation relationships. <i>Water Resources Research</i> , <b>1991</b> , 27, 423-437                                 | 5-4 | 105 |
| 2210 | Analyses of infiltration events in relation to determining soil hydraulic properties by inverse problem methodology. <i>Water Resources Research</i> , <b>1991</b> , 27, 1361-1373 | 5-4 | 106 |
| 2209 | Numerical approximations of darcian flow through unsaturated soil. <i>Water Resources Research</i> , <b>1991</b> , 27, 1215-1222   | 5-4 | 93  |
| 2208 | An improved analysis of gravity drainage experiments for estimating the unsaturated soil hydraulic functions. <i>Water Resources Research</i> , <b>1991</b> , 27, 569-575          | 5-4 | 23  |
| 2207 | Stochastic modeling of large-scale flow in heterogeneous unsaturated soils. <i>Water Resources Research</i> , <b>1991</b> , 27, 1447-1458  | 5-4 | 72  |
| 2206 | Theoretical Prediction of Electrical Conductivity in Saturated and Unsaturated Soil. <i>Water Resources Research</i> , <b>1991</b> , 27, 2771-2777                                 | 5-4 | 194 |

|      |   |     |     |
|------|---|-----|-----|
| 2205 | Comparing Simulated and Experimental Hysteretic Two-Phase Transient Fluid Flow Phenomena. <i>Water Resources Research</i> , <b>1991</b> , 27, 2113-2124   | 5-4 | 82  |
| 2204 | The Las Cruces Trench Site: Characterization, Experimental Results, and One-Dimensional Flow Predictions. <i>Water Resources Research</i> , <b>1991</b> , 27, 2695-2705   | 5-4 | 90  |
| 2203 | Porous Media With Linearly Variable Hydraulic Properties. <i>Water Resources Research</i> , <b>1991</b> , 27, 2735-2744   | 5-4 | 86  |
| 2202 | Soil spatial variability along transects. <b>1991</b> , 4, 297-314  |     | 21  |
| 2201 | Discussion of "On the Correspondence between Brooks-Corey and van Genuchten Models" by R. J. Lenhard, J. C. Parker, and S. Mishra (August, 1989, Vol. 115, No. 4). <b>1991</b> , 117, 608-610   |     |     |
| 2200 | Pore-Size Analysis for Permeability Estimation in Porous Material. <b>1991</b> , 62, 283-291  |     |     |
| 2199 | Modeling tillage effects on soil physical properties. <b>1991</b> , 20, 293-318   |     | 8   |
| 2198 | Modelling water and solute transport in macroporous soil. I. Model description and sensitivity analysis. <b>1991</b> , 42, 59-70  |     | 162 |
| 2197 | DISCUSSION OF "Infiltration of Immiscible Contaminants in the Unsaturated Zone," by D. D. Reible, T. H. Illangasekare, D. V. Doshi, and M. E. Malhiet, September-October 1990 issue, v. 28, no. 5, pp. 685-692. <b>1991</b> , 29, 106-107 |     | 0   |
| 2196 | REPLY TO the preceding Discussion by Amal M. Djerrari of "Infiltration of Immiscible Contaminants in the Unsaturated Zone" <b>1991</b> , 29, 107-107  |     | 0   |
| 2195 | Field Sampling of Residual Aviation Gasoline in Sandy Soil. <b>1991</b> , 11, 107-120   |     | 9   |
| 2194 | Modelling water flow, nitrogen transport and root uptake including physical non-equilibrium and optimization of the root water potential. <b>1991</b> , 27, 215-231   |     | 32  |
| 2193 | Modelling water flow, nitrogen uptake and production for wheat. <b>1991</b> , 27, 313-329   |     | 67  |
| 2192 | Analysis of Recharge in Anisotropic, Layered, Saturated-Unsaturated Soil. <b>1992</b> , 118, 584-600  |     |     |
| 2191 | Appendix I: Weather, soils, cultural practices, and cotton growth data from the 1989 face experiment in IBSNAT format. <b>1992</b> , 11, 271-308  |     | 16  |
| 2190 | Uncertainty and Sensitivity Analyses of Groundwater Travel Time in a Two-Dimensional Variably-Saturated Fractured Geologic Medium. <b>1992</b> , 294, 921   |     |     |
| 2189 | Application of stochastic unsaturated flow theory, numerical simulations, and comparisons to field observations. <i>Water Resources Research</i> , <b>1992</b> , 28, 269-284  | 5-4 | 27  |
| 2188 | Two-Dimensional Analysis of Furrow Infiltration. <b>1992</b> , 118, 791-806   |     | 22  |

|      |  |     |     |
|------|--|-----|-----|
| 2187 | Evaluation of liquid and vapor water flow in desert soils based on chlorine 36 and tritium tracers and nonisothermal flow simulations. <i>Water Resources Research</i> , <b>1992</b> , 28, 285-297 | 5-4 | 79  |
| 2186 | A boundary integral technique for multiple-front simulation of incompressible, immiscible flow in porous media. <i>Water Resources Research</i> , <b>1992</b> , 28, 2067-2076                      | 5-4 | 6   |
| 2185 | Statistical analysis of spatial variability in unsaturated flow parameters. <i>Water Resources Research</i> , <b>1992</b> , 28, 1911-1925  | 5-4 | 182 |
| 2184 | Oscillation phenomena in gravity-driven drainage in coarse porous media. <i>Water Resources Research</i> , <b>1992</b> , 28, 1849-1855   | 5-4 | 25  |
| 2183 | Error analyses of simplified unsaturated flow models under large uncertainty in hydraulic properties. <i>Water Resources Research</i> , <b>1992</b> , 28, 2913-2924                                | 5-4 | 41  |
| 2182 | Estimation of finite difference interblock conductivities for simulation of infiltration into initially dry soils. <i>Water Resources Research</i> , <b>1992</b> , 28, 2285-2295                   | 5-4 | 73  |
| 2181 | Parameter constraints on closed-form soilwater relationships. <b>1992</b> , 134, 117-142   |     | 106 |
| 2180 | Laboratory and numerical investigations of immiscible multiphase flow in soil. <b>1992</b> , 135, 13-52  |     | 53  |
| 2179 | Determining soil hydrologic properties from rain simulator or double ring infiltrometer experiments: a comparison. <b>1992</b> , 135, 73-86  |     | 15  |
| 2178 | Coupled simulations of water flow from a field-investigated glacial till slope using a quasi-two-dimensional water and heat model with bypass flow. <b>1992</b> , 131, 105-132                     |     | 12  |
| 2177 | Sensitivity and problems in modelling soil moisture conditions. <b>1992</b> , 131, 227-238   |     | 7   |
| 2176 | Unsaturated and Saturated Flow in Response to Pumping of an Unconfined Aquifer: Numerical Investigation of Delayed Drainage. <b>1992</b> , 30, 873-884   |     | 49  |
| 2175 | Moisture and solute flux along preferred pathways characterized by fissured sediments in desert soils. <b>1992</b> , 10, 19-46   |     | 26  |
| 2174 | One-dimensional immiscible displacement experiments. <b>1992</b> , 10, 197-223   |     | 18  |
| 2173 | A stochastic approach to model validation. <b>1992</b> , 15, 15-32   |     | 40  |
| 2172 | A boundary integral method for steady flow in unsaturated porous media. <b>1992</b> , 16, 581-601  |     | 6   |
| 2171 | A one-dimensional moving grid solution for the coupled non-linear equations governing multiphase flow in porous media. 1: Model development. <b>1992</b> , 14, 25-45                               |     | 6   |
| 2170 | Subsurface flow simulation of a small plot at loch chon, Scotland. <b>1992</b> , 6, 299-326  |     | 14  |

|      |   |     |
|------|---|-----|
| 2169 | Analysis of groundwater flow and travel times for a landfill site in an arid region with a thick vadose zone. <b>1993</b> , 7, 373-387              | 5   |
| 2168 | Non-linear absorption of soil water from a disc source. <b>1993</b> , 16, 285-292   |     |
| 2167 | Core sampling versus field-measured data for modeling drainage in field soils: validity of the equivalent media approach. <b>1993</b> , 16, 153-162 | 2   |
| 2166 | Tillage effects on near-surface soil hydraulic properties. <b>1993</b> , 26, 277-288  | 73  |
| 2165 | Spatial variability in subsurface flow and transport: a review. <b>1993</b> , 42, 293-316   | 8   |
| 2164 | Hydraulic properties of sphagnum peat moss and tuff (scoria) and their potential effects on water availability. <b>1993</b> , 154, 119-126          | 55  |
| 2163 | The subsurface transport of heat and moisture and its effect on the environment: A numerical model. <b>1993</b> , 65, 159-179                       | 70  |
| 2162 | Field determination of soil hydraulic properties for simulation of the optimum watertable regime. <b>1993</b> , 6, 275-290                          |     |
| 2161 | Monte Carlo Simulations of Multiphase Flow Incorporating Spatial Variability of Hydraulic Properties. <b>1993</b> , 31, 123-134                     | 42  |
| 2160 | Uncertainty Analyses of Unsaturated Zone Travel Time at Yucca Mountain. <b>1993</b> , 31, 293-301   | 14  |
| 2159 | A comparative study of closed-form hydraulic conductivity prediction models. <b>1993</b> , 16, 317-329  |     |
| 2158 | Prediction of dynamic hydraulic properties in a ripening soil. <b>1993</b> , 57, 231-246  | 9   |
| 2157 | Use of an inverse method and geostatistics to estimate soil hydraulic conductivity for spatial variability analysis. <b>1993</b> , 60, 169-186      | 34  |
| 2156 | A class of exact solutions for Richards' equation. <b>1993</b> , 142, 29-46   | 115 |
| 2155 | Identification of the movement of water in unsaturated soils: the problem of identifiability of the model. <b>1993</b> , 143, 153-167               | 20  |
| 2154 | Salt accumulation in semi-arid floodplain soils with implications for forest health. <b>1993</b> , 150, 589-614                                     | 99  |
| 2153 | The effects of transient temperature gradients on soil moisture dynamics. <b>1993</b> , 152, 57-101   | 4   |
| 2152 | Spatial variation of root-zone and shallow vadose-zone drainage on a loamy glacial till in a sub-humid climate. <b>1993</b> , 148, 1-26             | 12  |

|      |   |     |     |
|------|---|-----|-----|
| 2151 | Variability of unsaturated zone water transport parameters: implications for hydrological modelling. 2. Predicted vs. in situ measurements and evaluation of methods. <b>1993</b> , 148, 133-147                                  |     | 15  |
| 2150 | Development of an approximate model for unsaturated flow with root water uptake under rectangular water content profiles assumption. <b>1993</b> , 146, 321-339   |     | 11  |
| 2149 | Stochastic modeling of macrodispersion for solute transport in a heterogeneous unsaturated porous formation. <i>Water Resources Research</i> , <b>1993</b> , 29, 383-397  | 5-4 | 94  |
| 2148 | Modeling of carbon dioxide transport and production in soil: 1. Model development. <i>Water Resources Research</i> , <b>1993</b> , 29, 487-497  | 5-4 | 217 |
| 2147 | Stochastic modeling of unsaturated flow in heterogeneous soils with water uptake by plant roots: The Parallel Columns Model. <i>Water Resources Research</i> , <b>1993</b> , 29, 619-631  | 5-4 | 35  |
| 2146 | In situ measurement of microbial activity and controls on microbial CO <sub>2</sub> production in the unsaturated zone. <i>Water Resources Research</i> , <b>1993</b> , 29, 647-659   | 5-4 | 78  |
| 2145 | Boundary integral solutions to the unsaturated moisture flow equation. <i>Water Resources Research</i> , <b>1993</b> , 29, 1425-1434  | 5-4 | 1   |
| 2144 | Stochastic analysis of unsaturated steady state flow through bounded heterogeneous formations. <i>Water Resources Research</i> , <b>1993</b> , 29, 1141-1148  | 5-4 | 32  |
| 2143 | Estimation of two-phase relative permeability relationships for organic liquid contaminants. <i>Water Resources Research</i> , <b>1993</b> , 29, 1081-1090  | 5-4 | 54  |
| 2142 | Simulation of fluid distributions observed at a crude oil spill site incorporating hysteresis, oil entrapment, and spatial variability of hydraulic properties. <i>Water Resources Research</i> , <b>1993</b> , 29, 1753-1770     | 5-4 | 72  |
| 2141 | Percolation and permeability in partially structured networks. <i>Water Resources Research</i> , <b>1993</b> , 29, 3179-3188  | 5-4 | 37  |
| 2140 | Capillary-Tube Infiltration Model. <b>1993</b> , 119, 514-521   |     | 1   |
| 2139 | Effect of rainfall-induced soil seals on soil water regime: Wetting processes. <i>Water Resources Research</i> , <b>1993</b> , 29, 1651-1659  | 5-4 | 31  |
| 2138 | Bereitstellung von van-Genuchten-Parametern zur Charakterisierung der hydraulischen Bodeneigenschaften. <b>1993</b> , 156, 229-233  |     | 11  |
| 2137 | An efficient method for simulating steady unsaturated flow in random porous media: Using an analytical perturbation solution as initial guess to a numerical model. <i>Water Resources Research</i> , <b>1993</b> , 29, 4139-4149 | 5-4 | 16  |
| 2136 | PREDICTION OF SNOWMELT INFILTRATION INTO FROZEN SOILS. <b>1994</b> , 26, 643-665  |     | 21  |
| 2135 | Modeling of Infiltration from Trenches for Storm-Water Control. <b>1994</b> , 120, 276-293  |     | 30  |
| 2134 | Effects of Compaction on Soil Hydraulic Properties. <b>1994</b> , 11, 141-165   |     | 34  |

|      |  |     |  |     |
|------|--|-----|--|-----|
| 2133 | Simulation of dichlorprop and bentazon leaching in soils of contrasting texture using the MACRO model. <b>1994</b> , 29, 1255-1277   |     |  | 17  |
| 2132 | Differences of water retention curves obtained through capillary rise and steady-state equilibrium experiments. <b>1994</b> , 8, 89-99   |     |  |     |
| 2131 | An iterative compositional model for subsurface multiphase flow. <b>1994</b> , 15, 249-276   |     |  | 13  |
| 2130 | Effect of temperature and pore size on the hydraulic properties and flow of a hydrocarbon oil in the subsurface. <b>1994</b> , 16, 55-86   |     |  | 24  |
| 2129 | Laboratory and model simulations of a LNAPL spill in a variably-saturated sand, 2. Comparison of laboratory and model results. <b>1994</b> , 17, 27-53                                   |     |  | 25  |
| 2128 | Macroscopic soil physical processes considered within an agronomical and a soil biological context. <b>1994</b> , 51, 43-73  |     |  | 13  |
| 2127 | Characterization of Flow Parameters Controlling Soil Vapor Extraction. <b>1994</b> , 32, 239-247   |     |  | 23  |
| 2126 | Hydraulic conductivity estimation for soils with heterogeneous pore structure. <i>Water Resources Research</i> , <b>1994</b> , 30, 211-223   | 5-4 |  | 665 |
| 2125 | Modeling of soil water retention from saturation to oven dryness. <i>Water Resources Research</i> , <b>1994</b> , 30, 701-708  | 5-4 |  | 189 |
| 2124 | Two-dimensional transport model for variably saturated porous media with major ion chemistry. <i>Water Resources Research</i> , <b>1994</b> , 30, 1115-1133                              | 5-4 |  | 119 |
| 2123 | Laboratory measurement of capillary pressure-saturation relationships in a rock fracture. <i>Water Resources Research</i> , <b>1994</b> , 30, 865-878                                    | 5-4 |  | 112 |
| 2122 | Apparatus for the rapid automated measurement of unsaturated soil transport properties. <i>Water Resources Research</i> , <b>1994</b> , 30, 2679-2690                                    | 5-4 |  | 19  |
| 2121 | A simulation model for the description of the one-dimensional vertical soil water flow in the unsaturated zone. <b>1994</b> , 75-76, 269-278   |     |  | 3   |
| 2120 | Immobilization of heavy metals in a polluted soil of a sewage farm by application of a modified aluminosilicate: a laboratory and numerical displacement study. <b>1994</b> , 7, 221-232 |     |  | 16  |
| 2119 | Temporal variability of soil surface crust conductivity. <b>1994</b> , 7, 1-18   |     |  | 15  |
| 2118 | Water uptake of maize roots under conditions of non-limiting soil water content. <b>1994</b> , 7, 37-45  |     |  | 6   |
| 2117 | Relations between pore-space and hydraulic properties in compacted beds of silty-loam aggregates. <b>1994</b> , 7, 57-73   |     |  | 14  |
| 2116 | Lateral solute mixing in homogeneous and layered sand columns. <b>1994</b> , 63, 109-121   |     |  | 14  |



|      |  |     |     |
|------|--|-----|-----|
| 2097 | Effect of Well-Screen Placement on Recovery of Vertically Stratified Contaminants. <b>1995</b> , 33, 445-457   |     | 9   |
| 2096 | An efficient solution procedure for the ONE-STEP experiment. <b>1995</b> , 19, 130-132   |     | 2   |
| 2095 | Green element simulations of the transient nonlinear unsaturated flow equation. <b>1995</b> , 19, 675-684  |     | 49  |
| 2094 | Untersuchungen zu Bodenerosion und Massenbewegungen im Gunzesrieder Tal/Oberallgäu. <b>1995</b> , 114, 214-231   |     | 5   |
| 2093 | Simulation of the Transport Processes Occured in Pouring Organic Compounds into Rapid Infiltrator for Removing Nitrogen from Wastewater.. <b>1995</b> , 18, 511-517                      |     |     |
| 2092 | Brooks-Corey and van Genuchten Soil-Water-Retention Models. <b>1995</b> , 121, 1-7   |     | 32  |
| 2091 | The user's influence on model calibration results: an example of the model SOIL, independently calibrated by two users. <b>1995</b> , 81, 71-81  |     | 31  |
| 2090 | Simulation of water fluxes using different methods for estimating soil parameters. <b>1995</b> , 81, 83-95   |     | 43  |
| 2089 | Simulation of soil water dynamics and herbicide persistence in a silt loam soil using the MACRO model. <b>1995</b> , 81, 97-109  |     | 42  |
| 2088 | Simulation of water and nitrogen flows and plant growth for a winter wheat stand in central Germany. <b>1995</b> , 81, 157-167   |     | 17  |
| 2087 | Relative Air Permeability as Function of Saturation in Soil Venting. <b>1995</b> , 121, 337-347  |     | 20  |
| 2086 | Estimating the unsaturated hydraulic conductivity from theoretical models using simple soil properties. <b>1995</b> , 65, 81-92  |     | 59  |
| 2085 | Solving the Estimation-Identification Problem in Two-Phase Flow Modeling. <i>Water Resources Research</i> , <b>1995</b> , 31, 913-924  | 5-4 | 52  |
| 2084 | Recent advances in pore scale models for multiphase flow in porous media. <b>1995</b> , 33, 1049-1057  |     | 134 |
| 2083 | A comparison of near-saturated hydraulic properties measured in small cores and large monoliths in a clay soil. <b>1995</b> , 7, 291-302   |     | 8   |
| 2082 | Modified Soil Water Retention Functions for All Matric Suctions. <i>Water Resources Research</i> , <b>1995</b> , 31, 1233-1238   | 5-4 | 120 |
| 2081 | State-Dependent Anisotropy: Comparisons of Quasi-Analytical Solutions with Stochastic Results for Steady Gravity Drainage. <i>Water Resources Research</i> , <b>1995</b> , 31, 2201-2211 | 5-4 | 21  |
| 2080 | Microbial Clogging of Saturated Soils and Aquifer Materials: Evaluation of Mathematical Models. <i>Water Resources Research</i> , <b>1995</b> , 31, 2173-2180                            | 5-4 | 107 |

|      |  |     |     |
|------|--|-----|-----|
| 2079 | Evaluation of Van Genuchten-Mualem Relationships to Estimate Unsaturated Hydraulic Conductivity at Low Water Contents. <i>Water Resources Research</i> , <b>1995</b> , 31, 2659-2668 | 5-4 | 42  |
| 2078 | Willow stand evapotranspiration simulated for Swedish soils. <b>1995</b> , 28, 271-293   |     | 31  |
| 2077 | Implications of Spatial Variability of Soil Physical Properties for Simulation of Evaporation at the Field Scale. <i>Water Resources Research</i> , <b>1996</b> , 32, 2067-2074      | 5-4 | 11  |
| 2076 | Parameter Estimation for Determining Hydraulic Properties of a Fine Sand From Transient Flow Measurements. <i>Water Resources Research</i> , <b>1996</b> , 32, 1965-1974             | 5-4 | 44  |
| 2075 | Series Solution for Richards Equation Under Concentration Boundary Conditions and Uniform Initial Conditions. <i>Water Resources Research</i> , <b>1996</b> , 32, 2401-2407          | 5-4 | 15  |
| 2074 | Lognormal Distribution Model for Unsaturated Soil Hydraulic Properties. <i>Water Resources Research</i> , <b>1996</b> , 32, 2697-2703  | 5-4 | 411 |
| 2073 | Modeling Transient Water and Solute Transport in a Biporous Soil. <i>Water Resources Research</i> , <b>1996</b> , 32, 819-829  | 5-4 | 54  |
| 2072 | Determination of soil hydrologic properties under simulated rainfall condition. <b>1996</b> , 29, 267-281  |     | 4   |
| 2071 | Capillary pressure-saturation relations in porous media including the effect of wettability. <b>1996</b> , 178, 33-53  |     | 24  |
| 2070 | Field evaluation of unsaturated hydraulic conductivity models and parameter estimation from retention data. <b>1996</b> , 179, 197-205   |     | 9   |
| 2069 | A comparison of modeling approaches for steady-state unconfined flow. <b>1996</b> , 181, 189-209   |     | 23  |
| 2068 | Identification of hydraulic parameters in layered soils based on a quasi-Newton method. <b>1996</b> , 181, 233-250   |     | 26  |
| 2067 | Unsaturated soil water movement in hysteretic and water repellent field soils. <b>1996</b> , 184, 153-173  |     | 35  |
| 2066 | Soil-water behaviour in a push terminal moraine: comparison of one- and two-dimensional simulations based on intensive regional field observations. <b>1996</b> , 69, 249-263        |     |     |
| 2065 | Multi-domain model for pore-size dependent transport of solutes in soils. <b>1996</b> , 70, 281-297  |     | 27  |
| 2064 | A stochastic approach to simulate water flow in a macroporous soil. <b>1996</b> , 70, 299-324  |     | 43  |
| 2063 | Impact of soil water property parameterization on atmospheric boundary layer simulation. <b>1996</b> , 101, 7269-7277  |     | 77  |
| 2062 | Experimental and Numerical Investigation of Soil Vapor Extraction. <i>Water Resources Research</i> , <b>1996</b> , 32, 3413-3427   | 5-4 | 57  |

|      |   |     |
|------|---|-----|
| 2061 | Radon transport into dwellings: Considering groundwater as a source. <b>1996</b> , 23, 1577-1580  | 3   |
| 2060 | Hydraulische Eigenschaften von Basaltsaproliten. <b>1996</b> , 159, 629-636   | 1   |
| 2059 | INFLUENCE OF RAIN INFILTRATION ON SLOPE FAILURE OF EMBANKMENT. <b>1996</b> , 1996, 99-108   |     |
| 2058 | Three-dimensional analysis of variably-saturated flow and solute transport in discretely-fractured porous media. <b>1996</b> , 23, 1-44                             | 330 |
| 2057 | Simulation of organic liquid flow in porous media using estimated and measured transport properties. <b>1996</b> , 22, 223-239                                      | 22  |
| 2056 | A new lumped-parameter model for flow in unsaturated dual-porosity media. <b>1996</b> , 19, 317-327   | 53  |
| 2055 | Probabilistic sensitivity analysis for one-dimensional contaminant transport in the vadose zone. <b>1996</b> , 24, 97-115   | 8   |
| 2054 | Model Predictions and Field Measurements of Chlorsulfuron Leaching under Non-steady-state Flow Conditions. <b>1996</b> , 48, 37-45                                  | 14  |
| 2053 | ESTABLISHING TEMPORALLY AND SPATIALLY VARIABLE SOIL HYDRAULIC DATA FOR USE IN A RUNOFF SIMULATION IN A LOESS REGION OF THE NETHERLANDS. <b>1996</b> , 10, 1027-1034 | 6   |
| 2052 | MEASURING AND MODELLING OF SOIL WATER DYNAMICS AND RUNOFF GENERATION IN AN AGRICULTURAL LOESSIAL HILLSLOPE. <b>1996</b> , 10, 1081-1089                             | 16  |
| 2051 | EVALUATION OF VERTICAL AND LATERAL FLOW THROUGH AGRICULTURAL LOESSIAL HILLSLOPES USING A TWO-DIMENSIONAL COMPUTER SIMULATION MODEL. <b>1996</b> , 10, 1091-1105     | 12  |
| 2050 | LISEM: A SINGLE-EVENT PHYSICALLY BASED HYDROLOGICAL AND SOIL EROSION MODEL FOR DRAINAGE BASINS. I: THEORY, INPUT AND OUTPUT. <b>1996</b> , 10, 1107-1117            | 356 |
| 2049 | PREFERENTIAL WATER FLOW IN A FROZEN SOIL – A TWO-DOMAIN MODEL APPROACH. <b>1996</b> , 10, 1305-1316   | 95  |
| 2048 | The effectiveness of two capillary barriers on a 10% slope. <b>1996</b> , 14, 243-267   | 51  |
| 2047 | A new analytical model to predict the hydraulic conductivity of unsaturated soils. <b>1996</b> , 10, 397-414  | 2   |
| 2046 | Multidimensional Water Flow in a Low-Level Waste Isolation Barrier. <b>1996</b> , 34, 659-665   | 1   |
| 2045 | Macroscopic Models for Predicting Changes in Saturated Porous Media Properties Caused by Microbial Growth. <b>1996</b> , 34, 934-942                                | 164 |
| 2044 | Field evaluation of models of denitrification linked to nitrate leaching for aggregated soil. <b>1996</b> , 47, 305-317   | 22  |

|      |   |        |
|------|---|--------|
| 2043 | Effects of Vapor Extraction on Contaminant Flux to Atmosphere and Ground Water. <b>1996</b> , 122, 700-706  | 30     |
| 2042 | Upscaled Soil-Water Retention Using van Genuchten's Function. <b>1996</b> , 1, 123-130  | 27     |
| 2041 | Sensitivity Analysis in Parameter Identification, Test Planning and Test Evaluation Procedures for Two-Phase Flow in Porous Media. <b>1996</b> , 143-154                        |        |
| 2040 | Thermal performance of underground power cables with constant and cyclic currents in presence of moisture migration in the surrounding soil. <b>1996</b> , 11, 1159-1170        | 28     |
| 2039 | Investigations in the discharge process out of the root zone at sandy arable soils in Pleistocene landscapes. <b>1996</b> , 40, 263-269   | 4      |
| 2038 | SIMULATION OF INFILTRATION FROM A TRICKLE IRRIGATION SOURCE USING IMPLICIT FINITE DIFFERENCE METHOD. <b>1997</b> , 3, 1-13  | 1      |
| 2037 | Expression of Hysteresis for Soil Water Characteristic Curve and Unsaturated Hydraulic Conductivity. <b>1997</b> , 39, 299-312  | 3      |
| 2036 | Simulation of stable and unstable flows in unsaturated homogeneous coarse sand. <b>1997</b> , 42, 49-65   | 4      |
| 2035 | Desiccation of Mineral Liners Below Landfills with Heat Generation. <b>1997</b> , 123, 1001-1009  | 38     |
| 2034 | Review of Soil-Water Characteristic Curve Equations. <b>1997</b> , 123, 1106-1117   | 292    |
| 2033 | Modelling vertical and lateral water flow in frozen and sloped forest soil plots. <b>1997</b> , 26, 181-194   | 32     |
| 2032 | A comparative modeling study of soil water dynamics in a desert ecosystem. <i>Water Resources Research</i> , <b>1997</b> , 33, 73-90  | 5-4 80 |
| 2031 | Physical properties of Amazonian soils: A modeling study using the Anglo-Brazilian Amazonian Climate Observation Study data. <b>1997</b> , 102, 30119-30133                     | 11     |
| 2030 | Soil water balance in a boreal forest. <b>1997</b> , 102, 29355-29365   | 56     |
| 2029 | Hydrologic issues in arid, unsaturated systems and implications for contaminant transport. <b>1997</b> , 35, 461-490  | 96     |
| 2028 | Multiphase flow modeling of a crude-oil spill site with a bimodal permeability distribution. <i>Water Resources Research</i> , <b>1997</b> , 33, 1617-1632                      | 5-4 40 |
| 2027 | Solute channeling in unsaturated heterogeneous porous media. <i>Water Resources Research</i> , <b>1997</b> , 33, 2221-2238  | 5-4 69 |
| 2026 | Generalization of Ross' tilted capillary barrier diversion formula for different two-phase characteristic curves. <i>Water Resources Research</i> , <b>1997</b> , 33, 1855-1859 | 5-4 33 |

|      |   |     |     |
|------|---|-----|-----|
| 2025 | Modeling the dynamics of seal formation and its effect on infiltration as related to soil and rainfall characteristics. <i>Water Resources Research</i> , <b>1997</b> , 33, 1527-1536 | 5-4 | 99  |
| 2024 | An analytical solution technique for one-dimensional, steady vertical water flow in layered soils. <i>Water Resources Research</i> , <b>1997</b> , 33, 897-902                        | 5-4 | 21  |
| 2023 | Sensitivity of long-term bare soil infiltration simulations to hydraulic properties in an arid environment. <i>Water Resources Research</i> , <b>1997</b> , 33, 547-558               | 5-4 | 10  |
| 2022 | Chapter 10 Pedotransfer functions to evaluate soil quality. <b>1997</b> , 221-245   |     | 27  |
| 2021 | Modeling Nonpoint Source Pollutants in the Vadose Zone with GIS. <b>1997</b> , 31, 2157-2175  |     | 103 |
| 2020 | Permeability Functions for Unsaturated Soils. <b>1997</b> , 123, 1118-1126  |     | 179 |
| 2019 | Effects of crust and cracks on simulated catchment discharge and soil loss. <b>1997</b> , 195, 279-290  |     | 26  |
| 2018 | Evaluation of multimodal hydraulic functions in characterizing a heterogeneous field soil. <b>1997</b> , 195, 172-199   |     | 46  |
| 2017 | Comparison of three hydraulic property measurement methods. <b>1997</b> , 199, 295-318  |     | 38  |
| 2016 | Use of air permeability to estimate infiltrability of frozen soil. <b>1997</b> , 202, 95-107  |     | 51  |
| 2015 | Numerical simulation of the Noordbergum effect resulting from groundwater pumping in a layered aquifer system. <b>1997</b> , 202, 231-243   |     | 68  |
| 2014 | Regionalization of soil water retention curves in a highly variable soilscape, II. Comparison of regionalization procedures using a pedotransfer function. <b>1997</b> , 78, 145-159  |     | 43  |
| 2013 | An improved dual porosity model for chemical transport in macroporous soils. <b>1997</b> , 193, 270-292   |     | 48  |
| 2012 | A method for estimating unsaturated hydraulic properties of vertically heterogeneous soils from transient capillary pressure profiles. <b>1997</b> , 84, 37-50                        |     | 3   |
| 2011 | Model for evaporation, moisture and temperature of bare soil: calibration and sensitivity analysis. <b>1997</b> , 88, 47-56   |     | 55  |
| 2010 | Field-scale water transport in unsaturated crystalline rock. <i>Water Resources Research</i> , <b>1997</b> , 33, 589-598  | 5-4 | 21  |
| 2009 | Agrochemical controlled-release and transport in the soil profile: I. Model formulation and sensitivity analysis for bare soil under field conditions. <b>1997</b> , 48, 523-533      |     | 2   |
| 2008 | Closed-Form Expressions for Water Retention and Conductivity Data. <b>1997</b> , 35, 848-858  |     | 113 |

|      |  |     |
|------|--|-----|
| 2007 | Wettability effects on two- and three-fluid relative permeabilities. <b>1997</b> , 28, 171-191   | 39  |
| 2006 | A two-dimensional fuzzy random model of soil pore structure. <b>1997</b> , 29, 755-777   | 16  |
| 2005 | New Diagrams to Evaluate Soil Pore Radius Distribution and Saturated Hydraulic Conductivity of Forest Soil. <b>1997</b> , 2, 95-101  | 17  |
| 2004 | Modeling the relationships between particle and pore size distributions in multicomponent sphere packs: application to the water retention curve. <b>1997</b> , 127, 201-210 | 30  |
| 2003 | MACROâDB: a decision-support tool for assessing pesticide fate and mobility in soils. <b>1997</b> , 12, 251-265   | 66  |
| 2002 | Accurate and economical solution of the pressure-head form of Richards' equation by the method of lines. <b>1997</b> , 20, 1-14  | 116 |
| 2001 | Fractal models for predicting soil hydraulic properties: a review. <b>1997</b> , 48, 161-183   | 179 |
| 2000 | Suitability of Parametric Models to Describe the Hydraulic Properties of an Unsaturated Coarse Sand and Gravel. <b>1998</b> , 36, 465-475                                    | 16  |
| 1999 | DNAPL Migration Through a Fractured Perching Layer. <b>1998</b> , 36, 605-610  | 5   |
| 1998 | A capillary-driven root module for plant growth in microgravity. <b>1998</b> , 22, 1407-12   | 10  |
| 1997 | A test of long-term, predictive, geochemical transport modeling at the Akrotiri archaeological site. <b>1998</b> , 29, 245-279   | 3   |
| 1996 | Capability of convectionâdispersion transport models to predict transient water and solute movement in undisturbed soil columns. <b>1998</b> , 30, 101-128                  | 28  |
| 1995 | A numerical model for transient-hysteretic flow and solute transport in unsaturated porous media. <b>1998</b> , 30, 243-264  | 18  |
| 1994 | Direct estimation of airâoilâwater capillary pressure and permeability relations from multi-step outflow experiments. <b>1998</b> , 32, 223-245                            | 32  |
| 1993 | Measurement and modeling of hydraulic characteristics of unsaturated porous media with mixed wettability. <b>1998</b> , 33, 5-37   | 49  |
| 1992 | Analysis of unsaturated/saturated water flow near a fluctuating water table. <b>1998</b> , 33, 59-80   | 25  |
| 1991 | Infiltration and redistribution of perchloroethylene in partially saturated, stratified porous media. <b>1998</b> , 34, 293-313  | 39  |
| 1990 | Enhancing the accuracy of the solution to unsaturated flow by a Hermitian Green element model. <b>1998</b> , 29, 113-118   | 4   |

|      |  |     |
|------|--|-----|
| 1989 | A new approach for determining effective soil hydraulic functions. <b>1998</b> , 49, 547-556   | 86  |
| 1988 | Effects of horizontal drains on slope stability under rainfall by three-dimensional finite element analysis. <b>1998</b> , 23, 255-275   | 70  |
| 1987 | Particulated growth media for optimal liquid and gaseous fluxes to plant roots in microgravity. <b>1998</b> , 22, 1413-8   | 4   |
| 1986 | Modelling effects of soil structure on the water balance of soilâdrop systems: a review. <b>1998</b> , 48, 1-19  | 48  |
| 1985 | Multiphase flow and transport modeling in heterogeneous porous media: challenges and approaches. <b>1998</b> , 21, 77-120  | 225 |
| 1984 | Comparison of relative permeability-saturation-pressure parametric models for infiltration and redistribution of a light nonaqueous-phase liquid in sandy porous media. <b>1998</b> , 21, 145-157    | 67  |
| 1983 | Non-equilibrium alcohol flooding model for immiscible phase remediation: 1. Equation development. <b>1998</b> , 21, 649-662  | 10  |
| 1982 | Multifluid flow in bedded porous media: laboratory experiments and numerical simulations. <b>1998</b> , 22, 169-183  | 46  |
| 1981 | Inverse modelling techniques for determining hydraulic properties of coarse-textured porous media by transient outflow methods. <b>1998</b> , 22, 273-284  | 29  |
| 1980 | Termination of Newton/Chord Iterations and the Method of Lines. <b>1998</b> , 19, 280-290  | 12  |
| 1979 | Description and validation of the atmosphereâlandâsurface interaction scheme (ALSIS) with HAPEX and Cabauw data. <b>1998</b> , 19, 87-114  | 30  |
| 1978 | Predicted drainage for a sandy loam soil: sensitivity to hydraulic property description. <b>1998</b> , 206, 136-148  | 10  |
| 1977 | Flow and transport processes in a macroporous subsurface-drained glacial till soil II. Model analysis. <b>1998</b> , 207, 121-135  | 34  |
| 1976 | A model to couple overland flow and infiltration into macroporous vadose zone. <b>1998</b> , 210, 116-127  | 14  |
| 1975 | Maximum-likelihood estimation of unsaturated hydraulic parameters. <b>1998</b> , 210, 192-205  | 43  |
| 1974 | Treatment of soil, vegetation and snow in land surface models: a test of the BiosphereâAtmosphere Transfer Scheme with the HAPEX-MOBILHY, ABRACOS and Russian data. <b>1998</b> , 212-213, 109-127 | 16  |
| 1973 | Using an inverse method to estimate the hydraulic properties of crusted soils from tension-disc infiltrometer data. <b>1998</b> , 86, 61-81  | 104 |
| 1972 | A land surface process/radiobrightness model with coupled heat and moisture transport in soil. <b>1998</b> , 36, 273-286   | 26  |

|      |   |     |     |
|------|---|-----|-----|
| 1971 | Estimating the hydraulic conductivity and diffusivity in unsaturated porous media by fractal capillary model. <b>1998</b> , 21, 449-458   |     | 4   |
| 1970 | Simultaneous measurement of capillary pressure, saturation, and effective permeability of immiscible liquids in porous media. <i>Water Resources Research</i> , <b>1998</b> , 34, 3687-3692       | 5-4 | 16  |
| 1969 | Multiphase flow in heterogeneous porous media from a stochastic differential geometry viewpoint. <i>Water Resources Research</i> , <b>1998</b> , 34, 93-102                                       | 5-4 | 8   |
| 1968 | A conceptual model of the soil water retention curve. <i>Water Resources Research</i> , <b>1998</b> , 34, 223-231   | 5-4 | 141 |
| 1967 | Experimental evidence of randomness and nonuniqueness in unsaturated outflow experiments designed for hydraulic parameter estimation. <i>Water Resources Research</i> , <b>1998</b> , 34, 595-602 | 5-4 | 42  |
| 1966 | In situ estimation of soil hydraulic functions using a multistep soil-water extraction technique. <i>Water Resources Research</i> , <b>1998</b> , 34, 1035-1050                                   | 5-4 | 51  |
| 1965 | Constitutive relationships and pore structure of undisturbed fracture zone samples with cohesionless fault gouge layers. <i>Water Resources Research</i> , <b>1998</b> , 34, 1695-1701            | 5-4 | 18  |
| 1964 | Robust solution of Richards' equation for nonuniform porous media. <i>Water Resources Research</i> , <b>1998</b> , 34, 2599-2610  | 5-4 | 103 |
| 1963 | An active fracture model for unsaturated flow and transport in fractured rocks. <i>Water Resources Research</i> , <b>1998</b> , 34, 2633-2646   | 5-4 | 129 |
| 1962 | Nonaqueous phase liquid dissolution in heterogeneous systems: Mechanisms and a local equilibrium modeling approach. <i>Water Resources Research</i> , <b>1998</b> , 34, 3293-3302                 | 5-4 | 69  |
| 1961 | Soil Hydraulic Models Selection Based on In-Situ Measurements. <b>1998</b> , 124, 285-289   |     | 2   |
| 1960 | Development of Cone Penetrometer Method to Determine Soil Hydraulic Properties. <b>1998</b> , 124, 820-829  |     | 17  |
| 1959 | VOC Vapor Sorption in Soil: Soil Type Dependent Model and Implications for Vapor Extraction. <b>1998</b> , 124, 146-155   |     | 36  |
| 1958 | Dynamics of wetting fronts in porous media. <b>1998</b> , 58, R5245-R5248   |     | 13  |
| 1957 | Heat transport in the unsaturated zone – comparison of experimental results and numerical simulations. <b>1998</b> , 36, 933-962  |     | 5   |
| 1956 | Calculating deep seepage from water content and tension measurements in the vadose zone at sandy and loamy soils in North-East Germany. <b>1998</b> , 43, 233-243                                 |     | 8   |
| 1955 | Unconventional flow of water from dry to wet caused by hysteresis: A numerical experiment. <i>Water Resources Research</i> , <b>1999</b> , 35, 2587-2590  | 5-4 | 6   |
| 1954 | Effective Hydraulic Conductivity for Partially Saturated Porous Media. <b>1999</b> , 125, 82-89   |     | 1   |

|      |  |     |     |
|------|--|-----|-----|
| 1953 | Capillary Barrier Effect from Underlying Coarser Soil Layer. <b>1999</b> , 125, 641-648  |     | 123 |
| 1952 | Field Data from a Capillary Barrier and Model Predictions with UNSAT-H. <b>1999</b> , 125, 518-527   |     | 50  |
| 1951 | A growing season land surface process/radiobrightness model for wheat-stubble in the Southern Great Plains. <b>1999</b> , 37, 2152-2158  |     | 18  |
| 1950 | Dynamic contact angle explanation of flow rate-dependent saturation-pressure relationships during transient liquid flow in unsaturated porous media. <b>1999</b> , 13, 1495-1518 |     | 49  |
| 1949 | Numerical modeling of observed effective flow behavior in unsaturated heterogeneous sands. <i>Water Resources Research</i> , <b>1999</b> , 35, 29-42                             | 5-4 | 38  |
| 1948 | Estimating unsaturated soil hydraulic properties from laboratory tension disc infiltrometer experiments. <i>Water Resources Research</i> , <b>1999</b> , 35, 2965-2979           | 5-4 | 43  |
| 1947 | Parameter estimation of two-fluid capillary pressure-saturation and permeability functions. <b>1999</b> , 22, 479-493  |     | 129 |
| 1946 | Inverse modeling of a radial multistep outflow experiment for determining unsaturated hydraulic properties. <b>1999</b> , 22, 431-444  |     | 24  |
| 1945 | An evaluation of temporally adaptive transformation approaches for solving Richards' equation. <b>1999</b> , 22, 831-840   |     | 39  |
| 1944 | Modelling particle mobilization and leaching in macroporous soil. <b>1999</b> , 50, 621-632  |     | 84  |
| 1943 | Sensitivity of protective barrier performance to changes in rainfall rate. <b>1999</b> , 19, 467-475   |     | 11  |
| 1942 | Two-Dimensional Sensitivity Analysis of Contaminant Transport in the Unsaturated Zone. <b>1999</b> , 37, 185-193   |     | 16  |
| 1941 | Predicting Soil-Water and Soil-Air Transport Properties and Their Effects on Soil-Vapor Extraction Efficiency. <b>1999</b> , 19, 61-70   |     | 47  |
| 1940 | On the Choice of Soil Hydraulic Models in Land-Surface Schemes. <b>1999</b> , 90, 83-115   |     | 39  |
| 1939 | Spatial Variability of Soil Hydraulic Properties in a Forested Hillslope. <b>1999</b> , 4, 107-114   |     | 16  |
| 1938 | Movement and remediation of trichloroethylene in a saturated heterogeneous porous medium. <b>1999</b> , 37, 159-178  |     | 66  |
| 1937 | Modeling studies and analysis of seepage into drifts at Yucca mountain. <b>1999</b> , 38, 349-384  |     | 45  |
| 1936 | Predictions and observations of the thermal-hydrological conditions in the Single Heater Test. <b>1999</b> , 38, 385-425   |     | 44  |

|      |   |     |     |
|------|---|-----|-----|
| 1935 | Derivation of functional layers in a podzol toposequence for simulating cadmium transport. <b>1999</b> , 24, 869-873  |     | 2   |
| 1934 | Three-dimensional finite element modelling for consolidation due to groundwater withdrawal in a desaturating anisotropic aquifer system. <b>1999</b> , 23, 549-571                      |     | 15  |
| 1933 | Predicting saturated hydraulic conductivity from air permeability: Application in stochastic water infiltration modeling. <i>Water Resources Research</i> , <b>1999</b> , 35, 2387-2400 | 5-4 | 75  |
| 1932 | Modeling Water Uptake by Plant Roots. <b>1999</b> , 125, 159-165  |     | 27  |
| 1931 | Soft X-ray Radiography of Drainage Patterns of Structured Soils. <b>1999</b> , 63, 733-740  |     | 29  |
| 1930 | Relationship between the Hydraulic Conductivity Function and the Particle-Size Distribution. <b>1999</b> , 63, 1063-1070  |     | 126 |
| 1929 | The Effect of Hysteresis on Microbial Activity in Computer Simulation Models. <b>1999</b> , 63, 1101-1105   |     | 9   |
| 1928 | Nitrate Concentrations in the Root Zone Estimated Using Time Domain Reflectometry. <b>1999</b> , 63, 1561-1570  |     | 22  |
| 1927 | Engineering properties of gold tailings. <b>1999</b> , 13, 91-96  |     | 2   |
| 1926 | Opus simulation of water dynamics and nitrate transport in a field plot. <b>1999</b> , 122, 69-80   |     | 11  |
| 1925 | Modelling the water and energy balances of Amazonian rainforest and pasture using Anglo-Brazilian Amazonian climate observation study data. <b>1999</b> , 94, 79-101                    |     | 15  |
| 1924 | An assessment of effective land surface parameterisation in regional-scale water balance studies. <b>1999</b> , 217, 225-238  |     | 25  |
| 1923 | Quantifying the impact of preferential flow on solute transport to tile drains in a sandy field soil. <b>1999</b> , 215, 116-134  |     | 43  |
| 1922 | Evaluation of a dual-porosity model to predict field-scale solute transport in a macroporous soil. <b>1999</b> , 215, 153-171   |     | 142 |
| 1921 | Estimation of relative hydraulic conductivity of sandy soils based on a sheet flow model. <b>1999</b> , 219, 83-93  |     | 7   |
| 1920 | Modelling mean nitrate leaching from spatially variable fields using effective hydraulic parameters. <b>1999</b> , 87, 261-279  |     | 43  |
| 1919 | Pedotransfer functions to estimate soil water retention parameters for a modified Brooks&Corey type model. <b>1999</b> , 91, 1-9  |     | 78  |
| 1918 | Spatially variable soil hydraulic properties for simulation of field-scale solute transport in the unsaturated zone. <b>1999</b> , 92, 199-215  |     | 13  |

|      |  |     |     |
|------|--|-----|-----|
| 1917 | Modeling of soil deformation and water flow in a swelling soil. <b>1999</b> , 92, 217-238  |     | 31  |
| 1916 | Liquid retention and interfacial area in variably saturated porous media: Upscaling from single-pore to sample-scale model. <i>Water Resources Research</i> , <b>1999</b> , 35, 3591-3605                                  | 5-4 | 213 |
| 1915 | Unsaturated Flow (Richards Equation). <b>1999</b> , 217-230  |     |     |
| 1914 | Soil moisture redistribution and infiltration in frozen sandy soils. <i>Water Resources Research</i> , <b>1999</b> , 35, 95-103  | 5-4 | 110 |
| 1913 | Prediction of relative and absolute permeabilities for gas and water from soil water retention curves using a pore-scale network model. <i>Water Resources Research</i> , <b>1999</b> , 35, 1089-1100                      | 5-4 | 60  |
| 1912 | Microgravity effects on water flow and distribution in unsaturated porous media: analyses of flight experiments. <i>Water Resources Research</i> , <b>1999</b> , 35, 929-42  | 5-4 | 45  |
| 1911 | Estimating hysteresis in the soil water retention function from cone permeameter experiments. <i>Water Resources Research</i> , <b>1999</b> , 35, 1329-1345  | 5-4 | 54  |
| 1910 | Simultaneous measurement of water retention and electrical conductivity in soils: Testing the Mualem-Friedman Tortuosity Model. <i>Water Resources Research</i> , <b>1999</b> , 35, 1781-1787                              | 5-4 | 19  |
| 1909 | Influence of three-parameter conversion methods between van Genuchten and Brooks-Corey Functions on soil hydraulic properties and water-balance predictions. <i>Water Resources Research</i> , <b>1999</b> , 35, 2571-2578 | 5-4 | 15  |
| 1908 | Adsorption and capillary condensation in porous media: Liquid retention and interfacial configurations in angular pores. <i>Water Resources Research</i> , <b>1999</b> , 35, 1949-1964                                     | 5-4 | 419 |
| 1907 | Determining soil hydraulic functions from evaporation experiments by a parameter estimation Approach: Experimental verifications and numerical studies. <i>Water Resources Research</i> , <b>1999</b> , 35, 3343-3359      | 5-4 | 85  |
| 1906 | A comparison of relative nonwetting-phase permeability models. <i>Water Resources Research</i> , <b>1999</b> , 35, 1481-1493   | 5-4 | 37  |
| 1905 | Effects of Perched Water on Thermally Driven Moisture Flow at the Proposed Yucca Mountain Repository for High-Level Waste. <b>1999</b> , 125, 235-253  |     | 5   |
| 1904 | Use of coupled SVAT and microwave emission models for soil moisture estimation in SGP97.   |     |     |
| 1903 | SOIL/WATER COUPLED ANALYSIS CONSIDERING UNSATURATED PORE WATER DISTRIBUTION. <b>2000</b> , 2000, 165-178   |     | 2   |
| 1902 | Natural Bioattenuation of Anaerobic Hydrocarbons and Chlorinated Solvents in Groundwater. <b>2000</b> , 121-151  |     |     |
| 1901 | Quantifying interactions between compound properties and macropore flow effects on pesticide leaching. <b>2000</b> , 56, 133-141   |     | 2   |
| 1900 | Scaling hydraulic properties of forest soils. <b>2000</b> , 14, 521-538  |     | 17  |

|      |  |     |
|------|--|-----|
| 1899 | First approximations of soil moisture retention curves using the filter-paper method. <b>2000</b> , 14, 1131-1138  | 5   |
| 1898 | Integrated modelling of the soil-water-atmosphere-plant system using the model SWAP 2?0 an overview of theory and an application. <b>2000</b> , 14, 1993-2002      | 68  |
| 1897 | A numerical experiment on pore size, pore connectivity, water retention, permeability, and solute transport using network models. <b>2000</b> , 51, 99-105         | 138 |
| 1896 | Simulation of water retention and hydraulic conductivity in soil using a three-dimensional network. <b>2000</b> , 51, 65-79  | 41  |
| 1895 | Shrinking&swelling phenomenon of clay soils attributed to capillary-crack network. <b>2000</b> , 34, 61-71   | 12  |
| 1894 | Air distribution during in situ air sparging: an overview of mathematical modeling. <b>2000</b> , 72, 265-82   | 45  |
| 1893 | Simultaneous estimation of soil hydraulic and solute transport parameters from transient infiltration experiments. <b>2000</b> , 23, 677-688                       | 65  |
| 1892 | A concise parameterization of the hydraulic conductivity of unsaturated soils. <b>2000</b> , 23, 811-815   | 27  |
| 1891 | Effect of the shape of the soil hydraulic functions near saturation on variably-saturated flow predictions. <b>2000</b> , 24, 133-144                              | 269 |
| 1890 | Analysis of rate-limiting processes in soil evaporation with implications for soil resistance models. <b>2000</b> , 23, 493-502                                    | 49  |
| 1889 | Scaling the saturated hydraulic conductivity of a vertic ustorthens soil under conventional and minimum tillage. <b>2000</b> , 54, 1-9                             | 10  |
| 1888 | Ground heat transfer effects on the thermal performance of earth-contact structures. <b>2000</b> , 4, 213-265  | 98  |
| 1887 | Analytic Determination of Hydrocarbon Transmissivity from Baildown Tests. <b>2000</b> , 38, 46-52  | 20  |
| 1886 | On the Governing Equations and Model Assumptions for Multiphase Flow in Porous Media. <b>2000</b> , 38, 482-484  | 0   |
| 1885 | RETMCL: Incorporating maximum-likelihood estimation principles in the RETC soil hydraulic parameter estimation code. <b>2000</b> , 26, 319-327                     | 17  |
| 1884 | The influence of field-scale heterogeneity on the infiltration and entrapment of dense nonaqueous phase liquids in saturated formations. <b>2000</b> , 42, 187-218 | 67  |
| 1883 | Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model. <b>2000</b> , 80, 1-13                        | 20  |
| 1882 | Models for Describing Multiphase Flow and Transport of Contaminants. <b>2000</b> , 1-39  |     |

|      |   |     |     |
|------|---|-----|-----|
| 1881 | Seedling emergence of <i>Pinus sylvestris</i> in characterized seedbed substrates under different moisture conditions. <b>2000</b> , 30, 1766-1777            |     | 17  |
| 1880 | The 1999 R.M. Hardy Lecture: The implementation of unsaturated soil mechanics into geotechnical engineering. <b>2000</b> , 37, 963-986                        |     | 81  |
| 1879 | A Priori Identifiability of Unsaturated Soil Parameters. <b>2000</b> , 126, 163-171   |     | 8   |
| 1878 | Capillary Barriers: Design Variables and Water Balance. <b>2000</b> , 126, 695-708  |     | 145 |
| 1877 | Finite-Element Grid Configurations for Drains. <b>2000</b> , 126, 243-249   |     | 4   |
| 1876 | Sources of error in model predictions of pesticide leaching: a case study using the MACRO model. <b>2000</b> , 44, 247-262                                    |     | 36  |
| 1875 | Modelling soil water dynamics in winter wheat using different estimates of canopy development. <b>2000</b> , 129, 229-243                                     |     | 23  |
| 1874 | Simulating groundwater flow and runoff for the Oro Moraine aquifer system. Part I. Model formulation and conceptual analysis. <b>2000</b> , 229, 265-280      |     | 20  |
| 1873 | Oxygenation of anoxic water in a fluctuating water table system: an experimental and numerical study. <b>2000</b> , 230, 70-85                                |     | 83  |
| 1872 | Prediction of long term drainage water salinity of pipe drains. <b>2000</b> , 234, 249-263  |     | 10  |
| 1871 | Least-Squares Mixed Finite Element Solution of Variably Saturated Subsurface Flow Problems. <b>2000</b> , 21, 1869-1885                                       |     | 16  |
| 1870 | Macroporous drainage of unsaturated swelling soil. <i>Water Resources Research</i> , <b>2000</b> , 36, 1189-1197  | 5-4 | 12  |
| 1869 | Modeling multiyear observations of soil moisture recharge in the semiarid American Southwest. <i>Water Resources Research</i> , <b>2000</b> , 36, 2233-2247   | 5-4 | 105 |
| 1868 | Soil gas transport above a jet fuel/solvent spill at Plattsburgh Air Force Base. <i>Water Resources Research</i> , <b>2000</b> , 36, 2531-2547                | 5-4 | 11  |
| 1867 | Testing a full-range soil-water retention function in modeling water potential and temperature. <i>Water Resources Research</i> , <b>2000</b> , 36, 3081-3089 | 5-4 | 15  |
| 1866 | New geometry factors for hydraulic property-based soil solution electrical conductivity models. <i>Water Resources Research</i> , <b>2000</b> , 36, 3383-3387 | 5-4 |     |
| 1865 | Nitrate Leaching in a Tile-Drained Silt Loam Soil. <b>2000</b> , 64, 517-527  |     | 42  |
| 1864 | Modeling the Gas Diffusion Coefficient in Analogy to Electrical Conductivity Using a Capillary Model. <b>2000</b> , 64, 527-532                               |     | 10  |

|      |  |     |     |
|------|--|-----|-----|
| 1863 | Improved Prediction of Unsaturated Hydraulic Conductivity with the Mualem-van Genuchten Model. <b>2000</b> , 64, 843-851   |     | 303 |
| 1862 | Unimodal and Bimodal Descriptions of Hydraulic Properties for Aggregated Soils. <b>2000</b> , 64, 1252-1262  |     | 60  |
| 1861 | Estimation of Soil Solution Electrical Conductivity from Bulk Soil Electrical Conductivity in Sandy Soils. <b>2000</b> , 64, 1931-1939   |     | 60  |
| 1860 | Plant Water Use and Crop Curves for Hybrid Poplars. <b>2000</b> , 126, 206-214   |     | 29  |
| 1859 | An equation to represent grain-size distribution. <b>2000</b> , 37, 817-827  |     | 137 |
| 1858 | Virus transport in unsaturated porous media. <i>Water Resources Research</i> , <b>2000</b> , 36, 173-179   | 5-4 | 47  |
| 1857 | Transformation approaches for simulating flow in variably saturated porous media. <i>Water Resources Research</i> , <b>2000</b> , 36, 923-934  | 5-4 | 34  |
| 1856 | Numerical analysis of flow and transport in variably saturated bimodal heterogeneous porous media. <i>Water Resources Research</i> , <b>2001</b> , 37, 2127-2141   | 5-4 | 13  |
| 1855 | A mathematical model for biological clogging of uniform porous media. <i>Water Resources Research</i> , <b>2001</b> , 37, 2995-2999  | 5-4 | 41  |
| 1854 | One-, two-, and three-dimensional root water uptake functions for transient modeling. <i>Water Resources Research</i> , <b>2001</b> , 37, 2457-2470  | 5-4 | 231 |
| 1853 | A semianalytical solution for steady infiltration in unsaturated fractured rock. <i>Water Resources Research</i> , <b>2001</b> , 37, 2285-2289   | 5-4 | 2   |
| 1852 | A model for soil relative hydraulic conductivity based on the water retention characteristic curve. <i>Water Resources Research</i> , <b>2001</b> , 37, 265-271  | 5-4 | 73  |
| 1851 | Effect of interaggregate capillary cracks on the hydraulic conductivity of swelling clay soils. <i>Water Resources Research</i> , <b>2001</b> , 37, 1245-1256  | 5-4 | 21  |
| 1850 | Hydraulic conductivity of variably saturated porous media: Film and corner flow in angular pore space. <i>Water Resources Research</i> , <b>2001</b> , 37, 1257-1276   | 5-4 | 209 |
| 1849 | Unsaturated hydraulic conductivity function based on a soil fragmentation process. <i>Water Resources Research</i> , <b>2001</b> , 37, 1309-1312   | 5-4 | 29  |
| 1848 | Reply [to "Comment on "Influence of three-parameter conversion methods between van Genuchten and Brooks-Corey Functions on soil hydraulic properties and water-balance predictions" by Qingli Ma et al."] <i>Water Resources Research</i> , <b>2001</b> , 37, 853-855          | 5-4 | 1   |
| 1847 | Variability of Gardner's $\theta$ for coarse-textured sediments. <i>Water Resources Research</i> , <b>2001</b> , 37, 1567-1575   | 5-4 | 39  |
| 1846 | On the continuum-scale modeling of gravity-driven fingers in unsaturated porous media: The inadequacy of the Richards Equation with standard monotonic constitutive relations and hysteretic equations of state. <i>Water Resources Research</i> , <b>2001</b> , 37, 2019-2035 | 5-4 | 66  |

|      |  |      |
|------|--|------|
| 1845 | Retrieving soil moisture from simulated brightness temperatures by a neural network. <b>2001</b> , 39, 1662-1672   | 36   |
| 1844 | Irrigation water distribution and long-term effects on crop and environment. <b>2001</b> , 50, 125-140   | 22   |
| 1843 | Modification of DAISY SVAT model for potential use of remotely sensed data. <b>2001</b> , 106, 215-231   | 24   |
| 1842 | An Aggregation-Based Domain Decomposition Preconditioner for Groundwater Flow. <b>2001</b> , 23, 430-441   | 30   |
| 1841 | Modélisation du transport d'un soluté réactif en milieux poreux non saturés. <b>2001</b> , 333, 129-132  | 2    |
| 1840 | Evaluation of pedo-transfer functions for unsaturated soil hydraulic conductivity using an independent data set. <b>2001</b> , 102, 275-297  | 132  |
| 1839 | Simulating groundwater flow and runoff for the Oro Moraine aquifer system. Part II. Automated calibration and mass balance calculations. <b>2001</b> , 243, 73-90                  | 16   |
| 1838 | Model comparison of flow through a municipal solid waste incinerator ash landfill. <b>2001</b> , 243, 55-72  | 24   |
| 1837 | An inverse modeling approach for the characterization of unsaturated water flow in an organic forest floor. <b>2001</b> , 246, 96-108  | 16   |
| 1836 | Constitutive relations for unsaturated flow in a fracture network. <b>2001</b> , 252, 116-125  | 43   |
| 1835 | Pedotransfer functions: bridging the gap between available basic soil data and missing soil hydraulic characteristics. <b>2001</b> , 251, 123-150                                  | 648  |
| 1834 | rosetta: a computer program for estimating soil hydraulic parameters with hierarchical pedotransfer functions. <b>2001</b> , 251, 163-176  | 1613 |
| 1833 | Using microscope observations of thin sections to estimate soil permeability with the Kozeny-Carman equation. <b>2001</b> , 251, 186-201   | 41   |
| 1832 | Pedotransfer functions for estimating saturated hydraulic conductivity: implications for modeling storm flow generation. <b>2001</b> , 251, 202-220                                | 47   |
| 1831 | Simulating unsaturated flow and transport in a macroporous soil to tile drains subject to an entrance head: model development and preliminary evaluation. <b>2001</b> , 254, 67-81 | 31   |
| 1830 | Water retention and hydraulic conductivity of a loamy sand soil as influenced by crop rotation and fertilization. <b>2001</b> , 46, 123-133  | 9    |
| 1829 | Modelling the Soil Water Balance of a Sugarcane Crop in Sindh, Pakistan with SWAP93. <b>2001</b> , 26, 129-150   | 1    |
| 1828 | Measured and Modeled Unsaturated Hydraulic Conductivity of a Walla Walla Silt Loam. <b>2001</b> , 65, 1385-1391  | 15   |

|      |  |     |     |
|------|--|-----|-----|
| 1827 | Information Content of Data for Identifying Soil Hydraulic Parameters from Outflow Experiments. <b>2001</b> , 65, 19-27  |     | 87  |
| 1826 | Soil seal formation and its effect on infiltration: Uniform versus nonuniform seal approximation. <i>Water Resources Research</i> , <b>2001</b> , 37, 297-305                    | 5-4 | 11  |
| 1825 | SOIL-SOILN simulations of water drainage and nitrate nitrogen transport from soil core lysimeters. <b>2001</b> , 30, 584-9   |     | 12  |
| 1824 | Flow Rate Dependence of Soil Hydraulic Characteristics. <b>2001</b> , 65, 35-48  |     | 131 |
| 1823 | Sistemas de drenagem agrícola. Parte I: desenvolvimento do modelo e análise de sensibilidade. <b>2001</b> , 5, 369-375   |     | 4   |
| 1822 | AIR AND WATER PERMEABILITY IN DIFFERENTLY TEXTURED SOILS AT TWO MEASUREMENT SCALES. <b>2001</b> , 166, 643-659   |     | 59  |
| 1821 | Evaluation of Pedotransfer Functions for Predicting the Soil Moisture Retention Curve. <b>2001</b> , 65, 638-648   |     | 160 |
| 1820 | Tortuosity, Diffusivity, and Permeability in the Soil Liquid and Gaseous Phases. <b>2001</b> , 65, 613-623   |     | 331 |
| 1819 | Calibration of a Two-Dimensional Root Water Uptake Model. <b>2001</b> , 65, 1027-1037  |     | 196 |
| 1818 | Evaluation of the Tortuosity Parameter for Forest Soils to Predict Unsaturated Hydraulic Conductivity. <b>2001</b> , 6, 221-225  |     | 19  |
| 1817 | Methods for predicting the optimum and the range of soil water contents for tillage based on the water retention curve. <b>2001</b> , 57, 203-212                                |     | 151 |
| 1816 | Simultaneous scaling of soil water retention and unsaturated hydraulic conductivity functions assuming lognormal pore-size distribution. <b>2001</b> , 24, 677-688               |     | 52  |
| 1815 | Hydrologic characterization of reservoir metagraywacke from shallow and deep levels of The Geysers vapor-dominated geothermal system, California, USA. <b>2001</b> , 30, 169-192 |     | 16  |
| 1814 | Sensitivity analysis of large-scale time dependent PDEs. <b>2001</b> , 37, 109-125   |     | 7   |
| 1813 | Single- and dual-porosity modelling of multiple tracer transport through soil columns: effects of initial moisture and mode of application. <b>2001</b> , 52, 25-36              |     | 44  |
| 1812 | Non-equilibrium water flow characterized by means of upward infiltration experiments. <b>2001</b> , 52, 13-24  |     | 60  |
| 1811 | Application of a two-dimensional model to simulate flow and transport in a macroporous agricultural soil with tile drains. <b>2001</b> , 52, 433-447                             |     | 21  |
| 1810 | Modelling a spring wheat crop under elevated CO <sub>2</sub> and drought. <b>2001</b> , 150, 315-335   |     | 25  |

|      |   |     |
|------|---|-----|
| 1809 | Dynamic volume-averaged model of heat and mass transport within a compost biofilter: I. Model development. <b>2001</b> , 73, 282-94                           | 22  |
| 1808 | Estimating unsaturated soil hydraulic parameters using ant colony optimization. <b>2001</b> , 24, 827-841   | 155 |
| 1807 | Predicting unsaturated hydraulic conductivity of soil based on some basic soil properties. <b>2001</b> , 59, 143-154  | 20  |
| 1806 | Topsoil properties as affected by tillage practices in North China. <b>2001</b> , 60, 11-19   | 50  |
| 1805 | Effective parameters for two-phase flow in a porous medium with periodic heterogeneities. <b>2001</b> , 49, 87-109  | 37  |
| 1804 | Predictive modelling of NAPL injection tests in variable aperture spatially correlated fractures. <b>2001</b> , 49, 287-310                                   | 16  |
| 1803 | One-dimensional simulation of solute transfer in saturated-unsaturated porous media using the discontinuous finite elements method. <b>2001</b> , 51, 197-213 | 23  |
| 1802 | Modeling water flow and mass transport in a loess catchment. <b>2001</b> , 26, 487-507  | 75  |
| 1801 | Numerical modeling of one-dimensional solute transport in an unsaturated porous media. <b>2001</b> , 39, 33-39  |     |
| 1800 | Long-Term Effects of Irrigation Water Conservation on Crop Production and Environment in Semiarid Areas. <b>2001</b> , 127, 331-338                           | 35  |
| 1799 | Numerical oscillation in seepage analysis of unsaturated soils. <b>2001</b> , 38, 639-651   | 16  |
| 1798 | An Experimental and Numerical Study of Infiltration Trenches in Urban Runoff Control. <b>2002</b> , 1   | 1   |
| 1797 | 2. Numerical Simulations of Water Flow and Solute Transport Applied to Acid Sulfate Soils. <b>2002</b> , 128, 107-115   | 18  |
| 1796 | Multidimensional Flow of Water in Unsaturated Soils. <b>2002</b> , 181-197  |     |
| 1795 | The Effects of Microdrip and Conventional Drip Irrigation on Water Distribution and Uptake. <b>2002</b> , 66, 1630-1636                                       | 55  |
| 1794 | Estimating Hydraulic Properties of a Fine-textured Soil Using a Disc Infiltrometer. <b>2002</b> , 66, 1409-1423   | 40  |
| 1793 | A SIMPLE MODEL RELATING SOIL WATER CHARACTERISTIC CURVE AND SOIL SOLUTE BREAKTHROUGH CURVE 1. <b>2002</b> , 167, 436-443                                      | 16  |
| 1792 | Higher order, locally conservative temporal integration methods for modeling multiphase flow in porous media. <b>2002</b> , 249-256                           |     |

|      |   |     |     |
|------|---|-----|-----|
| 1791 | Compositional effects on interfacial properties in contaminated systems: implications for organic liquid migration and recovery. <b>2002</b> , 795-802  |     |     |
| 1790 | Analytical Models for Soil Pore-Size Distribution After Tillage. <b>2002</b> , 66, 1104-1114  |     | 39  |
| 1789 | Water-Related Physical Attributes of Organic Soils. <b>2002</b> ,   |     |     |
| 1788 | Dissolution of nonuniformly distributed immiscible liquid: intermediate-scale experiments and mathematical modeling. <b>2002</b> , 36, 1033-41  |     | 54  |
| 1787 | Impact of a physically based soil water flow and soil-plant interaction representation for modeling large-scale land surface processes. <b>2002</b> , 107, ACL 3-1-ACL 3-19                                       |     | 83  |
| 1786 | Optimal experimental design for parameter estimation in column outflow experiments. <i>Water Resources Research</i> , <b>2002</b> , 38, 4-1-4-11  | 5-4 | 18  |
| 1785 | Analytical solutions for steady state vertical infiltration. <i>Water Resources Research</i> , <b>2002</b> , 38, 20-1-20-5  | 5-4 | 20  |
| 1784 | Estimating the hydraulic functions of dual-permeability models from bulk soil data. <i>Water Resources Research</i> , <b>2002</b> , 38, 26-1-26-11  | 5-4 | 48  |
| 1783 | Two-dimensional modeling of flow and transport in the vadose zone with surfactant-induced flow. <i>Water Resources Research</i> , <b>2002</b> , 38, 33-1-33-16  | 5-4 | 24  |
| 1782 | Upscaling of soil hydraulic properties for steady state evaporation and infiltration. <i>Water Resources Research</i> , <b>2002</b> , 38, 17-1-17-13  | 5-4 | 39  |
| 1781 | Uncertainty analysis of transient unsaturated flow in bounded domain. <i>Water Resources Research</i> , <b>2002</b> , 38, 6-1-6-6   | 5-4 | 8   |
| 1780 | Toward improved identifiability of hydrologic model parameters: The information content of experimental data. <i>Water Resources Research</i> , <b>2002</b> , 38, 48-1-48-13                                      | 5-4 | 120 |
| 1779 | On the porous-continuum modeling of gravity-driven fingers in unsaturated materials: Extension of standard theory with a hold-back-pile-up effect. <i>Water Resources Research</i> , <b>2002</b> , 38, 16-1-16-11 | 5-4 | 50  |
| 1778 | Infiltration during soil sealing: The effect of areal heterogeneity of soil hydraulic properties. <i>Water Resources Research</i> , <b>2002</b> , 38, 22-1-22-9   | 5-4 | 46  |
| 1777 | A global multilevel coordinate search procedure for estimating the unsaturated soil hydraulic properties. <i>Water Resources Research</i> , <b>2002</b> , 38, 6-1-6-15  | 5-4 | 85  |
| 1776 | Intercode comparisons for simulating water balance of surficial sediments in semiarid regions. <i>Water Resources Research</i> , <b>2002</b> , 38, 59-1-59-16   | 5-4 | 94  |
| 1775 | Estimation of hydraulic properties of vertically heterogeneous forest soil from transient matric pressure data. <i>Water Resources Research</i> , <b>2002</b> , 38, 58-1-58-18                                    | 5-4 | 6   |
| 1774 | On the identification of macroscopic root water uptake parameters from soil water content observations. <i>Water Resources Research</i> , <b>2002</b> , 38, 36-1-36-14  | 5-4 | 47  |

|      |   |     |     |
|------|---|-----|-----|
| 1773 | Modeling the sink term under variable soil water osmotic and pressure heads. <b>2002</b> , 47, 17-24  |     | 2   |
| 1772 | Soil water hysteresis prediction model based on theory and geometric scaling. <b>2002</b> , 213-246   |     | 23  |
| 1771 | Chloride transport in a recently reclaimed Dutch polder. <b>2002</b> , 257, 59-77   |     | 32  |
| 1770 | Calibration of Richards' and convection-dispersion equations to field-scale water flow and solute transport under rainfall conditions. <b>2002</b> , 259, 15-31   |     | 74  |
| 1769 | Riparian wetlands of the middle reach of the Seine river (France): historical development, investigation and present hydrologic functioning. A case study. <b>2002</b> , 263, 131-155   |     | 35  |
| 1768 | Vadose zone flow model parameterisation using cross-borehole radar and resistivity imaging. <b>2002</b> , 267, 147-159  |     | 300 |
| 1767 | Preferential flow in macroporous swelling soil with internal catchment: model development and applications. <b>2002</b> , 269, 150-168  |     | 63  |
| 1766 | Thermohydrologic behavior at an underground nuclear waste repository. <i>Water Resources Research</i> , <b>2002</b> , 38, 10-1-10-19  | 5-4 | 37  |
| 1765 | Upscaled flow and transport properties for heterogeneous unsaturated media. <i>Water Resources Research</i> , <b>2002</b> , 38, 11-1-11-12  | 5-4 | 37  |
| 1764 | Combined effect of interblock and interaggregate capillary cracks on the hydraulic conductivity of swelling clay soils. <i>Water Resources Research</i> , <b>2002</b> , 38, 32-1-32-15  | 5-4 | 12  |
| 1763 | Geologic and hydrologic controls on the movement of water through a thick, heterogeneous unsaturated zone underlying an intermittent stream in the western Mojave Desert, southern California. <i>Water Resources Research</i> , <b>2002</b> , 38, 2-1-2-14 | 5-4 | 30  |
| 1762 | The impact of soil moisture on stem growth of spruce forest during a 22-year period. <b>2002</b> , 166, 17-33   |     | 22  |
| 1761 | Simulation studies of long-term saline water use: model validation and evaluation of schedules. <b>2002</b> , 54, 123-157   |     | 37  |
| 1760 | Simulating the fate of water in a soil-drop system of a semi-arid Mediterranean area with the WAVE 2.1 and the EURO-ACCESS-II models. <b>2002</b> , 56, 113-129   |     | 16  |
| 1759 | Simulation of root water uptake. <b>2002</b> , 57, 89-109   |     | 74  |
| 1758 | A Robust and Efficient Linearization Scheme for Doubly Nonlinear and Degenerate Parabolic Problems Arising in Flow in Porous Media. <b>2002</b> , 23, 1593-1614   |     | 31  |
| 1757 | Searching Below Thresholds: Tracing the Origins of Preferential Flow within Undisturbed Soil Samples. <b>2002</b> , 265-274   |     | 10  |
| 1756 | Soil Water Retention Curve Description Using a Flexible Smooth Function. <b>2002</b> , 1, 179-185   |     | 6   |

|      |  |    |
|------|--|----|
| 1755 | Fluid Flow, Heat Transfer, and Solute Transport at Nuclear Waste Storage Tanks in the Hanford Vadose Zone. <b>2002</b> , 1, 68-88  | 27 |
| 1754 | 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. <b>2002</b> , 1, 281-288 | 19 |
| 1753 | Horizontal Infiltration Method for Determining Brooks-Corey Model Parameters. <b>2002</b> , 66, 1733-1739  | 30 |
| 1752 | A modified upward infiltration method for characterizing soil hydraulic properties. <b>2002</b> , 66, 57-64  | 16 |
| 1751 | Validity of First-Order Approximations to Describe Parameter Uncertainty in Soil Hydrologic Models. <b>2002</b> , 66, 1740-1751  | 68 |
| 1750 | Modelo para simulaçã da dinãmica de nitrato em colunas verticais de solo nã saturado. <b>2002</b> , 6, 235-241   | 3  |
| 1749 | Unsaturated Hydraulic Conductivity of Structured Porous Media: A Review of Liquid ConfigurationâBased Models. <b>2002</b> , 1, 14-37   | 69 |
| 1748 | Three-region Campbell Model for Unsaturated Hydraulic Conductivity in Undisturbed Soils. <b>2002</b> , 66, 744-752   | 23 |
| 1747 | Estimating Hydraulic Properties of Soil Aggregate Skins from Sorptivity and Water Retention. <b>2002</b> , 66, 26-36   | 52 |
| 1746 | Electrokinetic ion transport through unsaturated soil: 1. Theory, model development, and testing. <b>2002</b> , 54, 99-120   | 62 |
| 1745 | Effects of heterogeneities on capillary pressure-saturation-relative permeability relationships. <b>2002</b> , 56, 175-92  | 63 |
| 1744 | A proposed model to include a residual NAPL saturation in a hysteretic capillary pressure-saturation relationship. <b>2002</b> , 58, 79-110  | 27 |
| 1743 | Role of macropore continuity and tortuosity on solute transport in soils: 2. Interactions with model assumptions for macropore description. <b>2002</b> , 58, 283-98                     | 24 |
| 1742 | SWãBoil and Water. <b>2002</b> , 83, 237-252   | 22 |
| 1741 | Different methods for modelling the areal infiltration of a grass field under heavy precipitation. <b>2002</b> , 16, 1383-1402   | 15 |
| 1740 | Approach for predicting the wetting front depth beneath a surface point source: theory and numerical aspect. <b>2002</b> , 51, 347-360   | 25 |
| 1739 | A new approach for soil solarization by using paraffin-wax emulsion as a mulching material. <b>2002</b> , 26, 637-648  | 9  |
| 1738 | An improved numerical solution of multiphase flow analysis in soil. <b>2002</b> , 33, 659-668  | 3  |

|      |   |     |
|------|---|-----|
| 1737 | Site and temporal variation of soil respiration in European beech, Norway spruce, and Scots pine forests. <b>2002</b> , 8, 1205-1216  | 140 |
| 1736 | Considerations for modeling bacterial-induced changes in hydraulic properties of variably saturated porous media. <b>2002</b> , 25, 477-495   | 69  |
| 1735 | Experimental study of two-phase flow in three sandstones. II. Capillary pressure curve measurement and relative permeability pore space capillary models. <b>2002</b> , 28, 1965-1981 | 27  |
| 1734 | A conceptual model for the description of oxidation and transport processes in sulphidic waste rock dumps. <b>2002</b> , 26, 751-770  | 35  |
| 1733 | Calibration of pesticide leaching models: critical review and guidance for reporting. <b>2002</b> , 58, 745-58  | 42  |
| 1732 | Hydrogeological research: just getting started. <b>2002</b> , 40, 224-31; discussion 317-9  | 28  |
| 1731 | Higher order time integration methods for two-phase flow. <b>2002</b> , 25, 159-177   | 48  |
| 1730 | Modeling the dynamics of the soil pore-size distribution. <b>2002</b> , 64, 61-78   | 82  |
| 1729 | Water balance and maize yield following improved sesbania fallow in eastern Zambia. <b>2003</b> , 59, 197-205   | 32  |
| 1728 | Estimation of the Hydrodynamic and Biokinetic Models of Soil Bioremediation Processes. <b>2003</b> , 81, 1279-1288  | 3   |
| 1727 | Numerical approximation of water-air two-phase flow by the mixed finite element method. <b>2003</b> , 30, 695-705   | 1   |
| 1726 | 4M-software package for modelling cropping systems. <b>2003</b> , 18, 389-393   | 9   |
| 1725 | Influence of surfactant-facilitated interfacial tension reduction on chlorinated solvent migration in porous media: observations and numerical simulation. <b>2003</b> , 64, 227-52   | 27  |
| 1724 | Estimation of primary drainage three-phase relative permeability for organic liquid transport in the vadose zone. <b>2003</b> , 66, 261-85  | 22  |
| 1723 | Modelling runoff generation in a forested catchment in southern Finland. <b>2003</b> , 17, 313-328  | 10  |
| 1722 | Modeling the hydration of foodstuffs: Temperature effects. <b>2003</b> , 49, 1334-1339  | 26  |
| 1721 | Measuring the relationships on DNAPLs migration. <b>2003</b> , 70, 351-363  | 23  |
| 1720 | On the hydraulic behavior of unsaturated nonwoven geotextiles. <b>2003</b> , 21, 381-404  | 66  |

|      |   |     |
|------|---|-----|
| 1719 | Theoretical analysis of the worthiness of Henry and Elder problems as benchmarks of density-dependent groundwater flow models. <b>2003</b> , 26, 17-31              | 102 |
| 1718 | Optimal hydraulic design of earth dam cross section using saturated-unsaturated seepage flow model. <b>2003</b> , 26, 1-7   | 9   |
| 1717 | Mixed finite element methods and higher order temporal approximations for variably saturated groundwater flow. <b>2003</b> , 26, 373-394                            | 44  |
| 1716 | Efficient steady-state solution techniques for variably saturated groundwater flow. <b>2003</b> , 26, 833-849   | 31  |
| 1715 | Conversion of hardwood forests to spruce and pine plantations strongly reduced soil methane sink in Germany. <b>2003</b> , 9, 956-966                               | 49  |
| 1714 | Modelling phosphorus leaching to watercourses from extended autumn grazing by cattle. <b>2003</b> , 58, 151-159   | 11  |
| 1713 | Experimental and numerical study of water flow in soil under irrigation in northern Senegal: evidence of air entrapment. <b>2003</b> , 54, 491-503                  | 43  |
| 1712 | An improved simulation of void structure, water retention and hydraulic conductivity in soil with the Pore-Cor three-dimensional network. <b>2003</b> , 54, 477-490 | 37  |
| 1711 | Presenting Essential Soil Science from Blackwell Publishing. <b>2003</b> , 54, 648-648  | 50  |
| 1710 | Parameterisation, evaluation and comparison of pesticide leaching models to data from a Bologna field site, Italy. <b>2003</b> , 59, 3-20                           | 9   |
| 1709 | Modelling approaches to compare sorption and degradation of metsulfuron-methyl in laboratory micro-lysimeter and batch experiments. <b>2003</b> , 59, 1276-90       | 12  |
| 1708 | Laboratory and numerical investigation of flow and transport near a seepage-face boundary. <b>2003</b> , 41, 690-700  | 31  |
| 1707 | Numerical Modeling of Unsaturated Flow in Wastewater Soil Absorption Systems. <b>2003</b> , 23, 64-72   | 31  |
| 1706 | A plant functional approach to the prediction of changes in Australian rangeland vegetation under grazing and fire. <b>2003</b> , 14, 333-344                       | 24  |
| 1705 | Modeling Rehydration of Porous Biomaterials: Anisotropy Effects. <b>2003</b> , 68, 937-942  | 33  |
| 1704 | Subsoil compaction by heavy sugarbeet harvesters in southern Sweden. <b>2003</b> , 73, 77-87  | 26  |
| 1703 | Estimating unique soil hydraulic parameters for sandy media from multi-step outflow experiments. <b>2003</b> , 26, 445-456  | 26  |
| 1702 | Pore space analysis of NAPL distribution in sand-clay media. <b>2003</b> , 26, 773-785  | 11  |

|      |   |     |     |
|------|---|-----|-----|
| 1701 | Modelling Contamination of Field Drainage Water by Ammonium following Slurry Spreading. <b>2003</b> , 85, 111-120   |     | 8   |
| 1700 | Physical and hydraulic properties of volcanic rocks from Yucca Mountain, Nevada. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 18  |
| 1699 | Effects of dry fractures on matrix diffusion in unsaturated fractured rocks. <b>2003</b> , 30,  |     | 5   |
| 1698 | Use of a two-mode soil pore size distribution to estimate soil water transport in a land surface model. <b>2003</b> , 30,   |     | 4   |
| 1697 | Capillary pressure characteristics necessary for simulating DNAPL infiltration, redistribution, and immobilization in saturated porous media. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 24  |
| 1696 | Are faults preferential flow paths through semiarid and arid vadose zones?. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 30  |
| 1695 | Relative permeability characteristics necessary for simulating DNAPL infiltration, redistribution, and immobilization in saturated porous media. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 19  |
| 1694 | On the porous continuum-scale modeling of gravity-driven fingers in unsaturated materials: Numerical solution of a hypodiffusive governing equation that incorporates a hold-back-pile-up effect. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 28  |
| 1693 | Variations in flow and transport in thick desert vadose zones in response to paleoclimatic forcing (0â90 kyr): Field measurements, modeling, and uncertainties. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 112 |
| 1692 | Reply to comment by R. D. Braddock and J. Norbury on "On the continuum-scale modeling of gravity-driven fingers in unsaturated porous media: The inadequacy of the Richards equation with standard monotonic constitutive relations and hysteretic equations of state" <i>Water Resources Research</i> , <b>2003</b> , 39,      | 5-4 | 1   |
| 1691 | Effective hydraulic parameters for steady state vertical flow in heterogeneous soils. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 39  |
| 1690 | Ionic-strength effects on colloid transport and interfacial reactions in partially saturated porous media. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 63  |
| 1689 | A new model for soil hydraulic properties based on a stochastic conceptualization of porous media. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 13  |
| 1688 | Reply to comment on "On the continuum-scale modeling of gravity-driven fingers in unsaturated porous media: The inadequacy of the Richards equation with standard monotonic constitutive relations and hysteretic equations of state" by Mehdi Eliassi and Robert J. Glass. <i>Water Resources Research</i> , <b>2003</b> , 39, | 5-4 | 2   |
| 1687 | Effect of spreading coefficient on three-phase relative permeability of nonaqueous phase liquids. <i>Water Resources Research</i> , <b>2003</b> , 39,   | 5-4 | 10  |
| 1686 | On the hydraulic properties of coarse-textured sediments at intermediate water contents. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 8   |
| 1685 | Hysteresis in soil water characteristics as a key to interpreting comparisons of laboratory and field measured hydraulic properties. <i>Water Resources Research</i> , <b>2003</b> , 39,  | 5-4 | 79  |
| 1684 | The behavior of inclined covers used as oxygen barriers. <b>2003</b> , 40, 512-535  |     | 113 |

|      |   |     |
|------|---|-----|
| 1683 | Numerical Modeling of Coupled Hygromechanical Degradation of Cementitious Materials. <b>2003</b> , 129, 383-392   | 44  |
| 1682 | Carbon Dioxide as Cushion Gas for Natural Gas Storage. <b>2003</b> , 17, 240-246  | 63  |
| 1681 | Review and comparison of models for describing non-equilibrium and preferential flow and transport in the vadose zone. <b>2003</b> , 272, 14-35   | 675 |
| 1680 | Comparison of finite difference and finite element solutions to the variably saturated flow equation. <b>2003</b> , 270, 49-64  | 20  |
| 1679 | Modelling unsaturated flow in an evolving karst aquifer. <b>2003</b> , 276, 53-70   | 24  |
| 1678 | Transport of multiple tracers in variably saturated humid region structured soils and semi-arid region laminated sediments. <b>2003</b> , 275, 141-161  | 36  |
| 1677 | Simulations on soil water variation in arid regions. <b>2003</b> , 275, 162-181   | 12  |
| 1676 | Upscaling of constitutive relations in unsaturated heterogeneous tuff matrix. <b>2003</b> , 276, 198-209  | 11  |
| 1675 | Temporal and spatial (down profile) variability of unsaturated soil hydraulic properties determined from a combination of repeated field experiments and inverse modeling. <b>2003</b> , 281, 23-35 | 18  |
| 1674 | Soil hydraulic properties of cropland compared with reestablished and native grassland. <b>2003</b> , 116, 47-60  | 102 |
| 1673 | Quantification of compaction effects on soil physical properties and crop growth. <b>2003</b> , 116, 107-136  | 302 |
| 1672 | Soil hydraulic behaviour of a selected benchmark soil involved in the landslide of Sarno 1998. <b>2003</b> , 117, 331-346   | 51  |
| 1671 | Water requirements of irrigated mango orchards in northeast Brazil. <b>2003</b> , 58, 241-254   | 68  |
| 1670 | Using inverse methods for estimating soil hydraulic properties from field data as an alternative to direct methods. <b>2003</b> , 59, 77-96   | 117 |
| 1669 | Model to assess water movement from a shallow water table to the root zone. <b>2003</b> , 62, 79-91   | 47  |
| 1668 | Modeling the soil water balance based on time-dependent hydraulic conductivity under different tillage practices. <b>2003</b> , 63, 139-151   | 32  |
| 1667 | Land-use induced spatial heterogeneity of soil hydraulic properties on the Loess Plateau in China. <b>2003</b> , 54, 59-75  | 45  |
| 1666 | Modelling water flow and sediment processes in a small gully system on the Loess Plateau in China. <b>2003</b> , 54, 117-130  | 37  |

|      |  |     |
|------|--|-----|
| 1665 | Modeling nitrogen dynamics in unsaturated soils for evaluating nitrate contamination of the Mnasra groundwater. <b>2003</b> , 7, 803-823   | 31  |
| 1664 | On the use of the Kozeny-Carman equation to predict the hydraulic conductivity of soils. <b>2003</b> , 40, 616-628   | 285 |
| 1663 | A model to predict the water retention curve from basic geotechnical properties. <b>2003</b> , 40, 1104-1122   | 196 |
| 1662 | Performance Modeling of a Direct Methanol Fuel Cell. <b>2003</b> , 150, A811   | 89  |
| 1661 | Soil Water Retention and Conductivity When Vapor Flow Is Important. <b>2003</b> , 129, 201-207   | 8   |
| 1660 | Estimating soil hydraulic properties from time series of L-band measured water contents.   | 1   |
| 1659 | Towards an Engineering Model of Material Characteristics for Input to Ham Transport Simulations - Part 1: An Approach. <b>2003</b> , 26, 343-366   | 13  |
| 1658 | Estimating water retention curves of forest soils from soil texture and bulk density. <b>2003</b> , 166, 111-119   | 66  |
| 1657 | An Experimental Investigation of Infiltrating an Immiscible Organic Spill in a Variably Saturated Soil. <b>2003</b> ,  | 1   |
| 1656 | Dual-porosity and kinematic wave approaches to assess the degree of preferential flow in an unsaturated soil. <b>2003</b> , 48, 455-472  | 29  |
| 1655 | Functional Evaluation of Pedotransfer Functions Derived from Different Scales of Data Collection. <b>2003</b> , 67, 1093-1102  | 118 |
| 1654 | Modeling the Influence of Water Content on Soil Vapor Extraction. <b>2003</b> , 2, 368-381   | 22  |
| 1653 | Field Application of a Portable Air Permeameter to Characterize Spatial Variability in Air and Water Permeability. <b>2003</b> , 2, 618-626  | 30  |
| 1652 | Geohydrological Application of a Nonlinear Physically Based Time Series Model. <b>2003</b> , 36, 1933-1938   |     |
| 1651 | Identification and On-Line Estimation of the Unsaturated Hydraulic Conductivity in Presence of Forced Air Convection Based on a Distributed-Parameter Model. <b>2003</b> , 36, 1945-1950 | 1   |
| 1650 | Assessment of statistical models for indirect determination of permeability functions from soil-water characteristic curves. <b>2003</b> , 53, 279-282                                   | 24  |
| 1649 | Modeling macropore flow effects on pesticide leaching: inverse parameter estimation using microlysimeters. <b>2003</b> , 32, 2341-53   | 46  |
| 1648 | UNSATURATED HYDRAULIC PROPERTIES OF ROCKFILL MATERIALS AND THE EFFECT OF PARTICLE SIZE DISTRIBUTION ON SUCH PROPERTIES. <b>2003</b> , 2003, 77-87  | 2   |

|      |   |     |
|------|---|-----|
| 1647 | Bibliography. <b>2003</b> , 443-484   |     |
| 1646 | Multi-Functional Heat Pulse Probe for the Simultaneous Measurement of Soil Water Content, Solute Concentration, and Heat Transport Parameters. <b>2003</b> , 2, 561-571 | 78  |
| 1645 | Using Simple Bucket Models to Analyze Solute Export to Subsurface Drains by Preferential Flow. <b>2003</b> , 2, 68-75   | 11  |
| 1644 | Toward Improved Identifiability of Soil Hydraulic Parameters: On the Selection of a Suitable Parametric Model. <b>2003</b> , 2, 98-113                                  | 36  |
| 1643 | A Tensorial Connectivityâortuosity Concept to Describe the Unsaturated Hydraulic Properties of Anisotropic Soils. <b>2003</b> , 2, 313-321                            | 23  |
| 1642 | Deep Soil Water Dynamics and Depletion by Secondary Vegetation in the Eastern Amazon. <b>2003</b> , 67, 1672-1686   | 25  |
| 1641 | Estimating Soil Hydraulic Parameters of a Field Drainage Experiment Using Inverse Techniques. <b>2003</b> , 2, 201-211  | 40  |
| 1640 | Modelos analticos para predi do processo da redistribui da gua no solo. <b>2003</b> , 27, 783-787   | 5   |
| 1639 | Electromagnetic Inversion of GPR Signals and Subsequent Hydrodynamic Inversion to Estimate Effective Vadose Zone Hydraulic Properties. <b>2004</b> , 3, 1072-1081       | 37  |
| 1638 | Application of a Darcian Approach to Estimate Liquid Flux in a Deep Vadose Zone. <b>2004</b> , 3, 560-569   | 14  |
| 1637 | Coupled Microbial and Transport Processes in Soils. <b>2004</b> , 3, 368-383  | 48  |
| 1636 | Water Flow and Heat Transport in Frozen Soil: Numerical Solution and Freezeâhaw Applications. <b>2004</b> , 3, 693-704  | 256 |
| 1635 | Hydrologic Processes in Deep Vadose Zones in Interdrainage Arid Environments. <b>2004</b> , 15-28   | 7   |
| 1634 | Neural Networks Prediction of Soil Hydraulic Functions for Alluvial Soils Using Multistep Outflow Data. <b>2004</b> , 68, 417-429                                       | 76  |
| 1633 | A Film Depositional Model of Permeability for Mineral Reactions in Unsaturated Media. <b>2004</b> , 3, 1414-1424  | 10  |
| 1632 | Comparing van Genuchten and Percolation Theoretical Formulations of the Hydraulic Properties of Unsaturated Media. <b>2004</b> , 3, 1483-1488                           | 16  |
| 1631 | New Method for Determining Water-Conducting Macro- and Mesoporosity from Tension Infiltrometer. <b>2004</b> , 68, 760-769   | 28  |
| 1630 | A dependcia entre a condutividade hidrlica saturada e atributos fsicos do solo. <b>2004</b> , 34, 963-969  | 31  |

|      |  |     |
|------|--|-----|
| 1629 | Tillage Effects on Subsurface Drainage. <b>2004</b> , 68, 1138-1144  | 9   |
| 1628 | Relating model parameters to basic soil properties. <b>2004</b> , 42, 841  | 6   |
| 1627 | Uncertainty in Vadose Zone Flow and Transport Prediction. <b>2004</b> , 3, 480-484   | 6   |
| 1626 | Preferential Flow Revealed by Hydrologic Modeling Based on Predicted Hydraulic Properties. <b>2004</b> , 68, 1526-1538   | 22  |
| 1625 | Correspondence and Upscaling of Hydraulic Functions for Steady-State Flow in Heterogeneous Soils. <b>2004</b> , 3, 527-533   | 33  |
| 1624 | Hydrologie mitteleuropäischer Wald- und Agrarökosysteme. <b>2004</b> , 1-32  |     |
| 1623 | Simulation of water and solute transport with MACRO model in Cecil loamy sand soil. <b>2004</b> , 42, 939  | 7   |
| 1622 | Estimating Uncertain Flow and Transport Parameters Using a Sequential Uncertainty Fitting Procedure. <b>2004</b> , 3, 1340-1352  | 515 |
| 1621 | Numerical Study of Finite Element Method Based Solutions for Propagation of Wetting Fronts in Unsaturated Soil. <b>2004</b> , 130, 254-263   | 15  |
| 1620 | Comparison of Soil Hydraulic Property Measurement Methods. <b>2004</b> , 130, 1084-1095  | 32  |
| 1619 | A parameter scaling concept for estimating field-scale hydraulic functions of layered soils. <b>2004</b> , 42, 93-103  | 9   |
| 1618 | Model simulations for describing water transport in a landfill with bottom ash from a municipal solid waste incinerator (MSWI): model validation and scenarios. <b>2004</b> , 22, 324-33                 | 1   |
| 1617 | Simulation of nondifferentiable models for groundwater flow and transport. <b>2004</b> , 55, 939-949   |     |
| 1616 | Richards Equation Model of a Rain Garden. <b>2004</b> , 9, 219-225   | 54  |
| 1615 | Computer modeling of organic pollutant transport to groundwater – exemplified by SNAPS. <b>2004</b> , 4, 651-671   |     |
| 1614 | Combination of micro suction cups and time-domain reflectometry to measure osmotic potential gradients between bulk soil and rhizosphere at high resolution in time and space. <b>2004</b> , 55, 497-504 | 20  |
| 1613 | Modeling depth-variant and domain-specific sorption and biodegradation in dual-permeability media. <b>2004</b> , 70, 63-87   | 48  |
| 1612 | Infiltration and redistribution of LNAPL into unsaturated layered porous media. <b>2004</b> , 71, 47-66  | 25  |

|      |   |     |
|------|---|-----|
| 1611 | A composite medium approximation for unsaturated flow in layered sediments. <b>2004</b> , 70, 225-47  | 16  |
| 1610 | Effect of scale and dimensionality on the surfactant-enhanced solubilization of a residual DNAPL contamination. <b>2004</b> , 71, 283-306   | 17  |
| 1609 | A constitutive model for air-NAPL-water flow in the vadose zone accounting for immobile, non-occluded (residual) NAPL in strongly water-wet porous media. <b>2004</b> , 71, 261-82  | 24  |
| 1608 | Infiltration of PCE in a system containing spatial wettability variations. <b>2004</b> , 73, 39-63  | 54  |
| 1607 | A constitutive model for air-NAPL-water flow in the vadose zone accounting for immobile, non-occluded (residual) NAPL in strongly water-wet porous media. <b>2004</b> , 73, 283-304 | 21  |
| 1606 | Numerical simulation of contaminant biodegradation by higher order methods and adaptive time stepping. <b>2004</b> , 7, 61-78   | 21  |
| 1605 | Computation of variably saturated subsurface flow by adaptive mixed hybrid finite element methods. <b>2004</b> , 27, 565-581  | 55  |
| 1604 | Numerical simulation of geotechnical problems based on a multi-phase finite element approach. <b>2004</b> , 31, 643-664   | 22  |
| 1603 | Fractal approach to hydraulic properties in unsaturated porous media. <b>2004</b> , 19, 327-337   | 58  |
| 1602 | Effect of degree of fluid saturation on transport coefficients in disturbed soils. <b>2004</b> , 55, 147-164  | 14  |
| 1601 | Assessment of Wastewater Impact on Groundwater by Hydraulic Soil Investigations. <b>2004</b> , 32, 328-335  | 1   |
| 1600 | Quantifying the local-scale uncertainty of estimated actual evapotranspiration. <b>2004</b> , 18, 3415-3434   | 12  |
| 1599 | The GEOTOP snow module. <b>2004</b> , 18, 3667-3679   | 53  |
| 1598 | Shallow landslides in pyroclastic soils: a distributed modelling approach for hazard assessment. <b>2004</b> , 73, 277-295  | 108 |
| 1597 | Prediction of the relative permeability to gas flow of cement-based materials. <b>2004</b> , 34, 737-744  | 88  |
| 1596 | An explicit derivation of an exponential dependence of the hydraulic conductivity on relative saturation. <b>2004</b> , 27, 197-201   | 11  |
| 1595 | Continuum percolation theory for pressure-saturation characteristics of fractal soils: extension to non-equilibrium. <b>2004</b> , 27, 245-257                                      | 30  |
| 1594 | Influence of textural and wettability variations on predictions of DNAPL persistence and plume development in saturated porous media. <b>2004</b> , 27, 411-427                     | 43  |

|      |  |     |     |
|------|--|-----|-----|
| 1593 | Porosityâpermeability properties generated with a new 2-parameter 3D hydraulic pore-network model for consolidated and unconsolidated porous media. <b>2004</b> , 27, 707-723  |     | 39  |
| 1592 | Calculation of unsaturated hydraulic conductivity using a fractal model for the pore-size distribution. <b>2004</b> , 31, 549-557  |     | 44  |
| 1591 | An Evaluation of the Single-test Tension Infiltrometer Method for determining the Hydraulic Conductivity of Lateral Capillarity Domain Soils. <b>2004</b> , 87, 247-255  |     | 4   |
| 1590 | Lattice Boltzmann approach to Richards' equation. <b>2004</b> , 583-595  |     | 6   |
| 1589 | Bodenhydrologische untersuchungen im Nordostdeutschen tiefland als grundlage des vorsorgenden bodenschutzes: Investigations in hydrological properties of soils in North-East Germany as a basis of soil conservation. <b>2004</b> , 50, 273-288 |     | 2   |
| 1588 | Predicting the saturated hydraulic conductivity of sand and gravel using effective diameter and void ratio. <b>2004</b> , 41, 787-795  |     | 227 |
| 1587 | Topographical attributes to predict soil hydraulic properties along a hillslope transect. <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 68  |
| 1586 | Laboratory evaluation of a hydrodynamic inverse modeling method based on water content data. <i>Water Resources Research</i> , <b>2004</b> , 40,   | 5-4 | 9   |
| 1585 | Inverse modeling of large-scale spatially distributed vadose zone properties using global optimization. <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 64  |
| 1584 | Predictability of hydrologic response at the plot and catchment scales: Role of initial conditions. <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 166 |
| 1583 | A combined parameter scaling and inverse technique to upscale the unsaturated hydraulic parameters for heterogeneous soils. <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 22  |
| 1582 | Three-phase flow analysis of dense nonaqueous phase liquid infiltration in horizontally layered porous media. <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 1   |
| 1581 | Impact of rooting depth and soil hydraulic properties on the transpiration peak of an evergreen forest in northern Thailand in the late dry season. <b>2004</b> , 109,   |     | 36  |
| 1580 | Reply to comment by S. Assouline on "laboratory evaluation of a hydrodynamic inverse modeling method based on water content data" <i>Water Resources Research</i> , <b>2004</b> , 40,  | 5-4 | 4   |
| 1579 | Comparison of HYDRUS-2D Simulations of Drip Irrigation with Experimental Observations. <b>2004</b> , 130, 304-310  |     | 184 |
| 1578 | Numerical Analysis of Rainfall Effects on Slope Stability. <b>2004</b> , 4, 69-78  |     | 162 |
| 1577 | Soil physical quality. <b>2004</b> , 120, 227-239  |     | 125 |
| 1576 | A physically based model for the water retention curve of clay pastes. <b>2004</b> , 286, 203-226  |     | 19  |

|      |  |     |
|------|--|-----|
| 1575 | Two-dimensional simulation of water flow and solute transport below furrows: model calibration and validation. <b>2004</b> , 290, 63-79                      | 66  |
| 1574 | Analysis of alternative measurement strategies for the inverse optimization of the hydraulic properties of a volcanic soil. <b>2004</b> , 295, 124-139       | 36  |
| 1573 | Simulation of water dynamics and irrigation scheduling for winter wheat and maize in seasonal frost areas. <b>2004</b> , 68, 117-133                         | 25  |
| 1572 | Evaluation of pedotransfer functions in predicting the soil water contents at field capacity and wilting point. <b>2004</b> , 70, 83-96                      | 76  |
| 1571 | Soil hydraulic conductivity function based on specific liquid-vapor interfacial area around the soil particles. <b>2004</b> , 119, 143-157                   | 12  |
| 1570 | Leaching of dissolved organic carbon and carbon dioxide emission after compost application to six nutrient-depleted forest soils. <b>2004</b> , 33, 89-98    | 10  |
| 1569 | MODIFICATIONS TO THE DSSAT VERTICAL DRAINAGE MODEL FOR MORE ACCURATE SOIL WATER DYNAMICS ESTIMATION. <b>2004</b> , 169, 745-757                              | 19  |
| 1568 | EFFECT OF CHANGING BULK DENSITY DURING WATER DESORPTION MEASUREMENT ON SOIL HYDRAULIC PROPERTIES. <b>2004</b> , 169, 319-329                                 | 26  |
| 1567 | A dual-porosity model for nitrogen leaching from a watershed/Un modèle à double porosité pour le lessivage de l'azote d'un bassin versant. <b>2004</b> , 49, | 2   |
| 1566 | Numerical study of infiltration into a soil-geotextile column. <b>2004</b> , 11, 377-389   | 31  |
| 1565 | Optimal design of highway cuttings in residual soils. <b>2004</b> , 157, 37-47   | 1   |
| 1564 | A Simplified Falling-Head Technique for Rapid Determination of Field-Saturated Hydraulic Conductivity. <b>2004</b> , 68, 66-73                               | 74  |
| 1563 | Finite element modeling of variably saturated flows in hillslopes with shallow water table. <b>2004</b> , 1427-1439  | 1   |
| 1562 | An evaluation of permeability of statistically reconstructed three-dimensional pore structures with lattice boltzmann simulations. <b>2004</b> , 55, 15-22   | 1   |
| 1561 | Wasserbewegung und Wasserleitfähigkeit des Bodens. <b>2004</b> , 1-44  |     |
| 1560 | Improvements to Estimating Unsaturated Soil Properties from Horizontal Infiltration. <b>2004</b> , 68, 1-6   | 7   |
| 1559 | Thermisches Verhalten der Böden. <b>2004</b> , 1-34  |     |
| 1558 | Rainfall-Induced Soil Surface Sealing: A Critical Review of Observations, Conceptual Models, and Solutions. <b>2004</b> , 3, 570-591                         | 165 |

|      |   |    |
|------|---|----|
| 1557 | A comparison of computational and algorithmic advances for solving Richards' equation. <b>2004</b> , 1131-1145                                  | 3  |
| 1556 | Comparison of Air and Water Permeability between Disturbed and Undisturbed Soils. <b>2005</b> , 69, 1361-1371                                   | 80 |
| 1555 | Soil Temperature Change over Time during Infiltration. <b>2005</b> , 69, 766-775  | 14 |
| 1554 | Soil Water Retention. <b>2005</b> , 69, 1891-1901   | 27 |
| 1553 | Numerical simulation of air loss during tunnel advance in compressed air tunnelling. <b>2005</b> , 289-304                                      | 2  |
| 1552 | UTILITY OF HYDRUS-2D IN MODELING PROFILE SOIL MOISTURE AND SALINITY DYNAMICS UNDER SALINE WATER IRRIGATION OF SOYBEAN. <b>2005</b> , 170, 28-37 | 11 |
| 1551 | SIMPLE MODEL TO ESTIMATE DAILY LATERAL DRAINAGE. <b>2005</b> , 170, 584-598   | 3  |
| 1550 | Comparison of Soil Hydraulic Parameterizations for Mesoscale Meteorological Models. <b>2005</b> , 44, 1116-1132                                 | 35 |
| 1549 | Estimation of Vadose Zone Water Flux from Multi-Functional Heat Pulse Probe Measurements. <b>2005</b> , 69, 599-606                             | 39 |
| 1548 | Application and Evaluation of the SWAP Model for Simulating Water and Solute Transport in a Cracking Clay Soil. <b>2005</b> , 69, 1943-1954     | 33 |
| 1547 | Water permeability of unsaturated compacted kaolin. <b>2005</b> , 45-57   |    |
| 1546 | Models for Indirect Estimation of Soil Hydraulic Properties. <b>2005</b> ,  | 6  |
| 1545 | EFFECT OF ORGANIC CARBON ON AVAILABLE WATER IN SOIL. <b>2005</b> , 170, 90-101  | 75 |
| 1544 | Inverse Modeling of Soil Hydraulic Properties. <b>2005</b> ,  | 5  |
| 1543 | Estimation of soil-water characteristics using liquid limit state. <b>2005</b> , 55, 569-573  | 3  |
| 1542 | Numerical study of advective flow through composite liners. <b>2005</b> , 12, 299-309   | 9  |
| 1541 | Modeling LNAPL Extraction with a Trench System. <b>2005</b> , 1   |    |
| 1540 | Unsaturated Zone Flow Processes. <b>2005</b> ,  | 16 |

|      |   |     |
|------|---|-----|
| 1539 | Modelling the hydration of foodstuffs. <b>2005</b> , 13, 119-128  | 11  |
| 1538 | Modelling of thermally induced desiccation of geosynthetic clay liners. <b>2005</b> , 23, 425-442   | 51  |
| 1537 | Leakage rate through a non-cracked concrete wall, comparison between two situations: Air pressure test and accident conditions. <b>2005</b> , 235, 2109-2123      | 12  |
| 1536 | Estimating permeability functions of Singapore residual soils. <b>2005</b> , 78, 119-133  | 24  |
| 1535 | Modelling of nitrogen release from MBT waste. <b>2005</b> , 25, 361-8   | 2   |
| 1534 | SIDASS project: Part 3. The optimum and the range of water content for tillage – further developments. <b>2005</b> , 82, 29-37                                    | 18  |
| 1533 | Simulation of Soil Heating in Ridges partly covered with Plastic Mulch, Part II: Model Calibration and Validation. <b>2005</b> , 92, 495-512                      | 4   |
| 1532 | Parameter equivalence for the Gardner and van Genuchten soil hydraulic conductivity functions for steady vertical flow with inclusions. <b>2005</b> , 28, 689-699 | 26  |
| 1531 | Upscaling of Richards's equation for soils containing highly conductive inclusions. <b>2005</b> , 28, 1159-1170   | 15  |
| 1530 | Adaptive finite element analysis of multi-phase problems in geotechnics. <b>2005</b> , 32, 458-481  | 11  |
| 1529 | Developing interactive land use scenarios on the Loess Plateau in China, presenting risk analyses and economic impacts. <b>2005</b> , 105, 387-399                | 20  |
| 1528 | Use of scaled forms of the infiltration equation for the estimation of unsaturated soil hydraulic properties (the Beerkan method). <b>2005</b> , 56, 361-374      | 77  |
| 1527 | Implementation of biofilm permeability models for mineral reactions in saturated porous media. <b>2005</b> , 31, 968-977  | 3   |
| 1526 | Numerical simulations of pyrite oxidation and acid mine drainage in unsaturated waste rock piles. <b>2005</b> , 78, 343-71  | 115 |
| 1525 | Modelling field-scale cadmium transport below the root zone of a sewage sludge amended soil in an arid region in Central Iran. <b>2005</b> , 79, 187-206          | 37  |
| 1524 | Modelling through-soil transport of phosphorus to surface waters from livestock agriculture at the field and catchment scale. <b>2005</b> , 344, 185-99           | 16  |
| 1523 | Sensitivity of soil parameters in unsaturated zone modelling and the relation between effective, laboratory and in situ estimates. <b>2005</b> , 19, 1611-1633    | 86  |
| 1522 | Process identification at a slow-moving landslide in the Vorarlberg Alps. <b>2005</b> , 19, 1635-1651   | 44  |

|      |   |    |
|------|---|----|
| 1521 | The effect of land-use changes on the hydrological behaviour of Histic Andosols in south Ecuador. <b>2005</b> , 19, 3985-3997   | 95 |
| 1520 | On quantifying agricultural and water management practices from low spatial resolution RS data using genetic algorithms: A numerical study for mixed-pixel environment. <b>2005</b> , 28, 856-870 | 43 |
| 1519 | Modeling unsaturated flow in a layered formation under quasi-steady state conditions using geophysical data constraints. <b>2005</b> , 28, 467-477  | 65 |
| 1518 | On the effective hydraulic conductivity in mean vertical unsaturated steady flows. <b>2005</b> , 28, 964-974  | 19 |
| 1517 | Comparing the inverse parameter estimation approach with pedo-transfer function method for estimating soil hydraulic conductivity. <b>2005</b> , 9, 269-276                                       | 11 |
| 1516 | Dry mass production and water use of non- and drip irrigated shape Thuja occidentalis âBrabantâ Field experiments and modeling. <b>2005</b> , 268, 329-347  | 5  |
| 1515 | A COMPARISON OF NUMERICAL MODEL FOR AIR-WATER-NAPL THREE-PHASE FLOW IN POROUS MEDIA. <b>2005</b> , 2005, 797_81-797_94  | 1  |
| 1514 | POROSITY AND PORE-SIZE DISTRIBUTION. <b>2005</b> , 295-303  | 50 |
| 1513 | Stochastic modeling of diffuse pesticide losses from a small agricultural catchment. <b>2005</b> , 34, 1174-85  | 24 |
| 1512 | Comparison of Equivalent Conductivities for Numerical Simulation of One-Dimensional Unsaturated Flow. <b>2005</b> , 4, 1191-1200  | 30 |
| 1511 | The Soil Physics Contributions of Edgar Buckingham. <b>2005</b> , 69, 328-342   | 21 |
| 1510 | Evaluation of Drainage from Passive Suction and Nonsuction Flux Meters in a Volcanic Clay Soil under Tropical Conditions. <b>2005</b> , 4, 1201-1209  | 22 |
| 1509 | Soil Hydraulic Properties in a Cassava Field as a Function of Soil Dry Bulk Density. <b>2005</b> , 18, 156-166  | 7  |
| 1508 | Experimental Observations and Numerical Modeling of Coupled Microbial and Transport Processes in Variably Saturated Sand. <b>2005</b> , 4, 407-417  | 32 |
| 1507 | Water and Solute Transport in a Cultivated Silt Loam Soil: 2. Numerical Analysis. <b>2005</b> , 4, 587-601  | 23 |
| 1506 | Measurement of hydraulic characteristics of porous media used to grow plants in microgravity. <b>2005</b> , 69, 301-10  | 12 |
| 1505 | Numerical Analysis to Investigate the Effects of the Design and Installation of Equilibrium Tension Plate Lysimeters on Leachate Volume. <b>2005</b> , 4, 488-499                                 | 16 |
| 1504 | Modeling Tritium Transport Through a Deep Unsaturated Zone in an Arid Environment. <b>2005</b> , 4, 967-976   | 16 |

|      |  |        |
|------|--|--------|
| 1503 | Inverse Analysis of Upward Water Flow in a Groundwater Table Lysimeter. <b>2005</b> , 4, 558-572   | 30     |
| 1502 | Soil Water Retention. <b>2005</b> , 69, 1881-1890  | 64     |
| 1501 | A Laboratory Method for Determining the Unsaturated Hydraulic Properties of Soil Peds. <b>2005</b> , 69, 807-815   | 14     |
| 1500 | Modeling Water Flow Patterns in Flexible Pavements. <b>2005</b> , 1936, 132-141  | 10     |
| 1499 | Simulating solute transport in a structured field soil: uncertainty in parameter identification and predictions. <b>2005</b> , 34, 621-34  | 47     |
| 1498 | Comparison of the Instantaneous Profile Method and inverse modelling for the prediction of effective soil hydraulic properties. <b>2005</b> , 43, 599                            | 4      |
| 1497 | WATER RETENTION AND CHARACTERISTIC CURVE. <b>2005</b> , 278-289  | 28     |
| 1496 | Leachate Recirculation Using Horizontal Trenches in Bioreactor Landfills. <b>2005</b> , 131, 837-847   | 81     |
| 1495 | Sorbent Wicking Device for Sampling Hydrophobic Organic Compounds in Unsaturated Soil Pore Water. I: Design and Hydraulic Characteristics. <b>2005</b> , 131, 11-20              | 3      |
| 1494 | Three-Dimensional Constitutive Model for Partially and Fully Saturated Soils. <b>2005</b> , 5, 244-255   | 49     |
| 1493 | Soil Hydraulic Properties. <b>2005</b> ,   | 17     |
| 1492 | A review of Beliche Dam. <b>2005</b> , 55, 267-285   | 69     |
| 1491 | Column test apparatus for the inverse estimation of soil hydraulic parameters under defined stress condition. <b>2005</b> , 33-44  |        |
| 1490 | Infiltration in a double-porosity medium: Experiments and comparison with a theoretical model. <i>Water Resources Research</i> , <b>2005</b> , 41,                               | 5-4 30 |
| 1489 | Pseudo-Transient Continuation for Nonsmooth Nonlinear Equations. <b>2005</b> , 43, 1385-1406   | 16     |
| 1488 | Comparison of a Lattice-Boltzmann Model, a Full-Morphology Model, and a Pore Network Model for Determining Capillary Pressure Saturation Relationships. <b>2005</b> , 4, 380-388 | 130    |
| 1487 | Case Study: Finite Element Method and Artificial Neural Network Models for Flow through Jeziorsko Earthfill Dam in Poland. <b>2005</b> , 131, 431-440                            | 55     |
| 1486 | Unusual drawdown curves for a pumping test in an unconfined aquifer at Lachenaie, Quebec: field data and numerical modeling. <b>2005</b> , 42, 1133-1144                         | 15     |

|      |  |     |     |
|------|--|-----|-----|
| 1485 | Estimating spatial distributions of hydraulic parameters for a two-scale structured heterogeneous lignitic mine soil. <b>2005</b> , 312, 109-124                                 |     | 20  |
| 1484 | Uncertainty of simulated catchment runoff response in the presence of threshold processes: Role of initial soil moisture and precipitation. <b>2005</b> , 315, 183-202           |     | 134 |
| 1483 | Estimating soil hydraulic properties and their uncertainty: the use of stochastic simulation in the inverse modelling of the evaporation method. <b>2005</b> , 126, 277-290      |     | 42  |
| 1482 | Base cation and silicon biogeochemistry under pine and scrub oak monocultures: implications for weathering rates. <b>2005</b> , 126, 353-365                                     |     | 25  |
| 1481 | Water transport under winter conditions. <b>2005</b> , 64, 193-208   |     | 32  |
| 1480 | New approach to model rehydration of dry food particulates utilizing principles of liquid transport in porous media. <b>2005</b> , 16, 495-506                                   |     | 92  |
| 1479 | Vertical stratification of soil water storage and release dynamics in Pacific Northwest coniferous forests. <b>2005</b> , 130, 39-58   |     | 125 |
| 1478 | Assessing water consumption of banana: traditional versus modelling approach. <b>2005</b> , 74, 201-218  |     | 17  |
| 1477 | Wave propagation through elastic porous media containing two immiscible fluids. <i>Water Resources Research</i> , <b>2005</b> , 41,  | 5-4 | 118 |
| 1476 | Homogenization of Richards equation in permeability fields with different connectivities. <i>Water Resources Research</i> , <b>2005</b> , 41,                                    | 5-4 | 44  |
| 1475 | Estimating soil hydraulic parameters from transient flow experiments in a centrifuge using parameter optimization technique. <i>Water Resources Research</i> , <b>2005</b> , 41, | 5-4 | 53  |
| 1474 | Contrasting effects of soil development on hydrological properties and flow paths. <i>Water Resources Research</i> , <b>2005</b> , 41,   | 5-4 | 85  |
| 1473 | On the relationships between the pore size distribution index and characteristics of the soil hydraulic functions. <i>Water Resources Research</i> , <b>2005</b> , 41,           | 5-4 | 26  |
| 1472 | Stochastic analysis of moisture plume dynamics of a field injection experiment. <i>Water Resources Research</i> , <b>2005</b> , 41,  | 5-4 | 40  |
| 1471 | Estimation of effective unsaturated hydraulic conductivity tensor using spatial moments of observed moisture plume. <i>Water Resources Research</i> , <b>2005</b> , 41,          | 5-4 | 50  |
| 1470 | Exploring dynamic effects in capillary pressure in multistep outflow experiments. <i>Water Resources Research</i> , <b>2005</b> , 41,  | 5-4 | 58  |
| 1469 | Percolation and transport in a sandy soil under a natural hydraulic gradient. <i>Water Resources Research</i> , <b>2005</b> , 41,  | 5-4 | 16  |
| 1468 | Using TDR and Inverse Modeling to Characterize Solute Transport in a Layered Agricultural Volcanic Soil. <b>2005</b> , 4, 300-309  |     | 14  |

|      |   |     |     |
|------|---|-----|-----|
| 1467 | Solute contaminant transport in variably saturated dual-porosity/dual permeability chalk: field tracer experiments and modelling. <b>2005</b> , 187-195                                       |     |     |
| 1466 | Analytical Model for Gravity-Driven Drainage. <b>2005</b> , 209-217   |     | 3   |
| 1465 | References. <b>2005</b> , 189-202   |     |     |
| 1464 | Modeling of seepage flow through layered soils. <b>2005</b> , 313-325   |     |     |
| 1463 | Determining Soil Hydraulic Properties. <b>2005</b> ,  |     | 11  |
| 1462 | Modeling the Soil Water Retention Curve for Conditions of Variable Porosity. <b>2005</b> , 4, 602-613   |     | 48  |
| 1461 | Sensitivity Analysis of Soil Hydraulic Properties on Subsurface Water Flow in Furrows. <b>2006</b> , 132, 418-424   |     | 29  |
| 1460 | SOIL PHYSICAL PROPERTIES, PROCESSES AND ASSOCIATED ROOT-SOIL INTERACTIONS. <b>2006</b> , 13-29  |     | 5   |
| 1459 | Unsaturated Soil Mechanics in Engineering Practice. <b>2006</b> , 132, 286-321  |     | 188 |
| 1458 | Regional Salinity Modeling for Conjunctive Water Use Planning in Kheri Command. <b>2006</b> , 132, 389-398  |     | 12  |
| 1457 | Numerical Analysis of Coupled Water, Vapor, and Heat Transport in the Vadose Zone. <b>2006</b> , 5, 784-800   |     | 293 |
| 1456 | Unified macroscopic model for unsaturated water flow in soils of bimodal porosity. <b>2006</b> , 51, 1106-1124  |     | 12  |
| 1455 | Predicting the unsaturated hydraulic conductivity of granular soils from basic geotechnical properties using the modified Kovács (MK) model and statistical models. <b>2006</b> , 43, 773-787 |     | 14  |
| 1454 | GEOtop: A Distributed Hydrological Model with Coupled Water and Energy Budgets. <b>2006</b> , 7, 371-388  |     | 200 |
| 1453 | Gas Transport Parameters in the Vadose Zone: Development and Tests of Power-Law Models for Air Permeability. <b>2006</b> , 5, 1205-1215   |     | 56  |
| 1452 | Comparison of methods to calculate relative permeability from capillary pressure in consolidated water-wet porous media. <i>Water Resources Research</i> , <b>2006</b> , 42,                  | 5-4 | 71  |
| 1451 | Simulation of groundwater recharge dynamics in partially saturated fractured soils incorporating spatially variable fracture apertures. <i>Water Resources Research</i> , <b>2006</b> , 42,   | 5-4 | 17  |
| 1450 | Runoff from heterogeneous small bare catchments during soil surface sealing. <i>Water Resources Research</i> , <b>2006</b> , 42,  | 5-4 | 47  |

|      |  |     |    |
|------|--|-----|----|
| 1449 | The influence of time domain reflectometry rod induced flow disruption on measured water content during steady state unit gradient flow. <i>Water Resources Research</i> , <b>2006</b> , 42, | 5-4 | 7  |
| 1448 | Improved estimation of soil water retention characteristics from hydrostatic column experiments. <i>Water Resources Research</i> , <b>2006</b> , 42,   | 5-4 | 44 |
| 1447 | Unsaturated hydraulic conductivity from nuclear magnetic resonance measurements. <i>Water Resources Research</i> , <b>2006</b> , 42,   | 5-4 | 23 |
| 1446 | Simulation des transferts réactionnels multi-constituants au sein des lits de filtration percolation à l'évaluation des capacités d'oxygénation. <b>2006</b> , 19, 199-212                   |     | 1  |
| 1445 | Analysis of Deep Moisture Barriers in Expansive Soils. II: Water Flow Formulation and Implementation. <b>2006</b> , 6, 319-327   |     | 12 |
| 1444 | Modelling of water flow through typical Bavarian soils: 1. Estimation of hydraulic characteristics of the unsaturated zone. <b>2006</b> , 51, 285-297  |     | 16 |
| 1443 | Water productivity analysis of irrigated crops in Sirsa district, India. <b>2006</b> , 82, 253-278   |     | 79 |
| 1442 | Monitoring and modelling the three-dimensional flow of water under drip irrigation. <b>2006</b> , 83, 197-208  |     | 25 |
| 1441 | Prediction of liquid municipal biosolid and precipitation induced tile flow in a Southern Ontario agricultural field using MACRO. <b>2006</b> , 83, 37-50                                    |     | 10 |
| 1440 | Estimating groundwater recharge using land use and soil data: A case study in South India. <b>2006</b> , 84, 65-76   |     | 51 |
| 1439 | Water-use efficiency of dwarf-green coconut ( <i>Cocos nucifera</i> L.) orchards in northeast Brazil. <b>2006</b> , 84, 259-264  |     | 36 |
| 1438 | Calibration and validation of DRAINMOD to design subsurface drainage systems for Iowa's tile landscapes. <b>2006</b> , 85, 221-232   |     | 88 |
| 1437 | Equifinality and sensitivity in freezing and thawing simulations of laboratory and in situ data. <b>2006</b> , 44, 20-37   |     | 39 |
| 1436 | Improved soil hydraulic conductivity function based on specific liquid-vapour interfacial area around the soil particles. <b>2006</b> , 132, 20-30   |     | 6  |
| 1435 | Hydraulic functions and water repellency of forest floor horizons on sandy soils. <b>2006</b> , 132, 182-195   |     | 36 |
| 1434 | Estimating relative hydraulic conductivity from lognormally distributed particle-size data. <b>2006</b> , 133, 421-430   |     | 16 |
| 1433 | Performance evaluation of methods for the estimation of soil hydraulic parameters and their suitability in a hydrologic model. <b>2006</b> , 134, 135-151                                    |     | 25 |
| 1432 | Mechanisms of shallow landslides on soil-mantled hillslopes with permeable and impermeable bedrocks in the Boso Peninsula, Japan. <b>2006</b> , 76, 92-108                                   |     | 74 |

|      |   |     |
|------|---|-----|
| 1431 | Expériences de drainage et estimation de paramètres en milieu poreux non saturé. <b>2006</b> , 338, 180-187   | 14  |
| 1430 | Nitrate leaching through the unsaturated zone following pig slurry applications. <b>2006</b> , 316, 195-212   | 50  |
| 1429 | Soil hydraulic properties near saturation, an improved conductivity model. <b>2006</b> , 324, 40-50   | 29  |
| 1428 | A fractal constitutive model for unsaturated flow in fractured hard rocks. <b>2006</b> , 324, 154-162   | 27  |
| 1427 | Artificial pumping errors in the KoolâParker scaling model of soil moisture hysteresis. <b>2006</b> , 325, 118-133  | 19  |
| 1426 | Information content of measurements from tracer microlysimeter experiments designed for parameter identification in dual-permeability models. <b>2006</b> , 325, 273-287                      | 21  |
| 1425 | Scale-dependency of the hydraulic properties of a variably saturated heterogeneous sandy subsoil. <b>2006</b> , 327, 376-388  | 21  |
| 1424 | Numerical demonstration of surfactant concentration-dependent capillarity and viscosity effects on infiltration from a constant flux line source. <b>2006</b> , 329, 63-74                    | 15  |
| 1423 | A seepage face model for the interaction of shallow water tables with the ground surface: Application of the obstacle-type method. <b>2006</b> , 329, 258-273                                 | 10  |
| 1422 | Distributed ecohydrological modelling to evaluate the performance of irrigation system in Sirsa district, India: I. Current water management and its productivity. <b>2006</b> , 329, 692-713 | 59  |
| 1421 | Transient simulations of flow and transport in the Chalk unsaturated zone. <b>2006</b> , 330, 10-28   | 50  |
| 1420 | Modelling precipitation-streamflow processes in karst basin: The case of the Jordan River sources, Israel. <b>2006</b> , 331, 524-542   | 106 |
| 1419 | Water dynamics in two rockwool slab growing substrates of contrasting densities. <b>2006</b> , 107, 399-404   | 13  |
| 1418 | Accuracy and performance of three water quality models for simulating nitrate nitrogen losses under corn. <b>2006</b> , 35, 1227-36   | 19  |
| 1417 | Estimation of the Unsaturated Hydraulic Conductivity of Peat Soils: Laboratory versus Field Data. <b>2006</b> , 5, 628-640  | 55  |
| 1416 | Novel evaporation experiment to determine soil hydraulic properties. <b>2006</b> , 10, 817-827  | 17  |
| 1415 | Dynamical process upscaling for deriving catchment scale state variables and constitutive relations for meso-scale process models. <b>2006</b> , 10, 981-996                                  | 49  |
| 1414 | Centrifuge modeling of one-step outflow tests for unsaturated parameter estimations. <b>2006</b> , 10, 715-729  | 9   |

|      |   |        |
|------|---|--------|
| 1413 | Scaling Approach to Deduce Field Unsaturated Hydraulic Properties and Behavior from Laboratory Measurements on Small Cores. <b>2006</b> , 5, 1005-1016                | 36     |
| 1412 | An Air-Water Interfacial Area Based Variable Tortuosity Model for Unsaturated Sands. <b>2006</b> , 5, 764-776   | 4      |
| 1411 | A Field Application of the Scaled-Predictive Method for Unsaturated Soil. <b>2006</b> , 5, 1093-1109  | 5      |
| 1410 | Applicability of Uni- and Bimodal Retention Functions for Water Flow Modeling in a Tropical Acrisol. <b>2006</b> , 5, 48-58   | 20     |
| 1409 | Incorporating Parametric Uncertainty in the Design of Alternative Landfill Covers in Arid Regions. <b>2006</b> , 5, 742-750   | 9      |
| 1408 | Modeling Two-Dimensional Water Flow and Bromide Transport in a Heterogeneous Lignitic Mine Soil. <b>2006</b> , 5, 14-26   | 10     |
| 1407 | Drainage Flux Measurement and Errors Associated with Automatic Tension-controlled Suction Plates. <b>2006</b> , 70, 1860-1871   | 27     |
| 1406 | Saturated and Unsaturated Hydraulic Conductivities and Water Retention Characteristics of Weathered Granitic Bedrock. <b>2006</b> , 5, 35-47                          | 40     |
| 1405 | Multiobjective Inverse Modeling for Soil Parameter Estimation and Model Verification. <b>2006</b> , 5, 917-933  | 55     |
| 1404 | Probabilistic modelling of saturated/unsaturated hydraulic conductivity for compacted glacial tills. <b>2006</b> , 56, 273-284  | 8      |
| 1403 | Pyroclastic flow deposits from the Colli Albani. <b>2006</b> ,  | 1      |
| 1402 | Simulation of Infiltration and Surface Runoff: A Windows-Based Hydrologic Modeling System HYDROL-INF. <b>2006</b> , 1   | 10     |
| 1401 | THE MEASUREMENT OF AIR PERMEABILITY COEFFICIENT OF UNSATURATED SOIL WITH CONTROLLING WATER RETENTIVITY. <b>2006</b> , 62, 679-688                                     | 5      |
| 1400 | Intercomparison Study of the Land Surface Process Model and the Common Land Model for a Prairie Wetland in Florida. <b>2006</b> , 7, 1247-1258                        | 24     |
| 1399 | A multiscale finite element linearization scheme for the unsaturated flow problems in heterogeneous porous media. <i>Water Resources Research</i> , <b>2006</b> , 42, | 5-4 13 |
| 1398 | Contribution of Thermal Infrared Remote Sensing Data in Multiobjective Calibration of a Dual-Source SVAT Model. <b>2006</b> , 7, 404-420                              | 33     |
| 1397 | LINKING THE GARDNER AND CAMPBELL MODELS FOR WATER RETENTION AND HYDRAULIC CONDUCTIVITY IN NEAR-SATURATED SOIL. <b>2006</b> , 171, 573-584                             | 8      |
| 1396 | MILESTONES IN SOIL PHYSICS. <b>2006</b> , 171, S21-S28  | 8      |

- 1395 The dominant role of structure for solute transport in soil: experimental evidence and modelling of structure and transport in a field experiment. **2006**, 10, 495-506 66
- 1394 Root Zone Soil Moisture Assessment Using Remote Sensing and Vadose Zone Modeling. **2006**, 5, 296-307 92
- 1393 Closed-Form Expression for the Multi-Modal Unsaturated Conductivity Function. **2006**, 5, 121-124 92
- 1392 Heat balance of an asphalt surface: observations and physically-based simulations. **2006**, 13, 203 31
- 1391 Simulating nitrate leaching under crops fertilized with pig slurry in lysimeters. **2006**, 17, 245-253
- 1390 A lysimeter experiment to investigate the effect of surface sealing on hydrology and pesticide loss from the reconstructed profile of a clay soil. 1. Hydrological characteristics. **2006**, 20, 373-383 2
- 1389 A Unified Nucleation Theory for the Kinetics of Hydrate Formation. **2006**, 912, 496-501 12
- 1388 Upscaling unsaturated hydraulic parameters for flow through heterogeneous anisotropic sediments. **2006**, 29, 268-280 25
- 1387 Effects of fractional wettability on capillary pressure saturation relative permeability relations of two-fluid systems. **2006**, 29, 212-226 26
- 1386 A spatially and temporally adaptive solution of Richards's equation. **2006**, 29, 525-545 64
- 1385 Comparison of relative permeability fluid saturation capillary pressure relations in the modelling of non-aqueous phase liquid infiltration in variably saturated, layered media. **2006**, 29, 1705-1730 21
- 1384 Validity limits for the van Genuchten-Mualem model and implications for parameter estimation and numerical simulation. **2006**, 29, 1780-1789 156
- 1383 A model based on cellular automata for the parallel simulation of 3D unsaturated flow. **2006**, 32, 357-376 32
- 1382 Comparative analysis of three methods to generate soil hydraulic functions. **2006**, 87, 89-100 38
- 1381 Simulation of Biodegradation in Infiltration Seepage Model Development and Hydrodynamic Calibration. **2006**, 177, 19-43 11
- 1380 Temperature dependence of large-scale water-retention curves: a case study. **2006**, 14, 1403-1408 3
- 1379 Numerical modelling of groundwater vulnerability: the example Namibia. **2006**, 50, 237-249 15
- 1378 Spatial and temporal distribution of root water uptake of an almond tree under microsprinkler irrigation. **2006**, 24, 267-278 24

|      |   |     |
|------|---|-----|
| 1377 | Variably saturated flow described with the anisotropic Lattice Boltzmann methods. <b>2006</b> , 35, 831-848   | 67  |
| 1376 | Forty years of <sup>90</sup> Sr in situ migration: importance of soil characterization in modeling transport phenomena. <b>2006</b> , 87, 209-26                          | 9   |
| 1375 | Numerical simulation of trace element transport on subsurface environment pollution in coal mine spoil. <b>2006</b> , 20, 97-104  | 15  |
| 1374 | Influence of the presence of a partially saturated layer on the interpretation in field permeability tests. <b>2006</b> , 33, 568-575                                     |     |
| 1373 | Gas percolation in upper-crustal silicic crystal mushes as a mechanism for upward heat advection and rejuvenation of near-solidus magma bodies. <b>2006</b> , 149, 85-102 | 213 |
| 1372 | Modelling the migration of contaminants through variably saturated dual-porosity, dual-permeability chalk. <b>2006</b> , 82, 195-219                                      | 34  |
| 1371 | A numerical approach for groundwater flow in unsaturated porous media. <b>2006</b> , 51, 1205-1215  |     |
| 1370 | Soil water balance scenario studies using predicted soil hydraulic parameters. <b>2006</b> , 20, 1075-1094  | 13  |
| 1369 | The effect of different methods used for hysteretic K(h) determination on the infiltration simulations. <b>2006</b> , 55, 403-418   | 4   |
| 1368 | A rain water infiltration model with unilateral boundary condition: qualitative analysis and numerical simulations. <b>2006</b> , 29, 2047-2077                           | 10  |
| 1367 | Service-oriented grid computation for large-scale parameter estimation in complex environmental modeling. <b>2006</b> ,   | 3   |
| 1366 | Modeling the Relationship between Soil Bulk Density and the Hydraulic Conductivity Function. <b>2006</b> , 5, 697-705   | 87  |
| 1365 | A Modified Mualem-Genuchten Formulation for Improved Description of the Hydraulic Conductivity Near Saturation. <b>2006</b> , 5, 27-34                                    | 141 |
| 1364 | Seasonal water uptake near trees: a numerical and experimental study. <b>2006</b> , 1, 129-138  | 15  |
| 1363 | Controls on dense non-aqueous-phase liquid transport in Permo-Triassic sandstones, UK. <b>2006</b> , 263, 253-264   |     |
| 1362 | Relative Permeabilities of Cement-based Materials: Influence of the Tortuosity Function. <b>2006</b> , 30, 39-57  | 15  |
| 1361 | Beerkan Estimation of Soil Transfer Parameters through Infiltration Experiments- <sup>BEST</sup> . <b>2006</b> , 70, 521-532  | 217 |
| 1360 | Measurement modeling of soil-water dynamics evapotranspiration of drained peatland soils. <b>2006</b> , 169, 762-774  | 38  |

- 1359 Modeling Water Movement and Flux from Membrane Pervaporation Systems for Wastewater Microirrigation. **2006**, 132, 1011-1018 7
- 1358 Closed loop GPR data inversion for soil hydraulic and electric property determination. **2006**, 33, 64
- 1357 Effluent flux prediction in variably saturated soil zones within a septic tankâsoil absorption trench. **2006**, 44, 677 3
- 1356 Water regime of mechanical-biological pretreated waste materials under fast-growing trees. **2007**, 25, 408-16 6
- 1355 Development of a Land Surface Model Including Evaporation and Adsorption Processes in the Soil for the LandâAir Exchange in Arid Regions. **2007**, 8, 1307-1324 25
- 1354 Hood InfiltrometerâA New Type of Tension Infiltrometer. **2007**, 71, 1438-1447 57
- 1353 Analytical AdvectionâDispersion Model for Transport and Plant Uptake of Contaminants in the Root Zone. **2007**, 6, 890-898 8
- 1352 Quantification of the heterogeneity of the unsaturated zone based on environmental deuterium observed in lysimeter experiments. **2007**, 52, 748-762 26
- 1351 Probabilistic Unsaturated Flow along the Textural Interface in Three Capillary Barrier Models. **2007**, 133, 1024-1031 8
- 1350 Analytical and Numerical Modeling Assessment of Capillary Barrier Performance Degradation due to Contaminant-Induced Surface Tension Reduction. **2007**, 133, 231-236 9
- 1349 An Improved Semi-Analytical Solution for Verification of Numerical Models of Two-Phase Flow in Porous Media. **2007**, 6, 93-104 26
- 1348 Conceptual Models and Simulations for Biological Clogging in Unsaturated Soils. **2007**, 6, 175-185 31
- 1347 Evaluation of Dual-Permeability Models for Chemical Leaching Assessment to Assist Pesticide Regulation in Hawaii. **2007**, 6, 735-745 12
- 1346 Upscaling Schemes and Relationships for the Gardner and van Genuchten Hydraulic Functions for Heterogeneous Soils. **2007**, 6, 186-195 20
- 1345 BASIC EXPERIMENTAL RESEARCH ON OIL CONTAMINATION OF SUBSURFACE MATERIAL. **2007**, 63, 249-268
- 1344 SOLUTE DIFFUSION ANALOGY MODEL FOR PREDICTING UNSATURATED HYDRAULIC CONDUCTIVITY IN REPACKED SOIL. **2007**, 172, 101-107
- 1343 Assessment of transport properties of cementitious materials. **2007**, 11, 671-696 1
- 1342 Estimation of Soil Hydraulic Properties. **2007**,

|      |   |        |
|------|---|--------|
| 1341 | Impact of soil texture on temporal and spatial development of osmotic-potential gradients between bulk soil and rhizosphere. <b>2007</b> , 170, 347-356                         | 10     |
| 1340 | Pre-seismic electromagnetic phenomena in the framework of percolation and fractal theories. <b>2007</b> , 431, 23-32  | 11     |
| 1339 | Modelling of an in situ ventilation experiment in the Opalinus Clay. <b>2007</b> , 32, 629-638  | 7      |
| 1338 | Wheat growth simulation and yield prediction with seasonal forecasts and a numerical model. <b>2007</b> , 147, 71-79  | 29     |
| 1337 | A mathematical model for simulating water balances in cropped sandy soil with conventional flood irrigation applied. <b>2007</b> , 87, 337-346                                  | 49     |
| 1336 | Soil hydraulic properties of two loess soils in China measured by various field-scale and laboratory methods. <b>2007</b> , 69, 264-273   | 27     |
| 1335 | Estimating soil hydraulic properties of Fengqiu County soils in the North China Plain using pedo-transfer functions. <b>2007</b> , 138, 261-271                                 | 57     |
| 1334 | Modeling hydraulic properties of sandy soils of Niger using pedotransfer functions. <b>2007</b> , 141, 407-415  | 20     |
| 1333 | Measurement and simulation of void structure and hydraulic changes caused by root-induced soil structuring under white clover compared to ryegrass. <b>2007</b> , 142, 142-151  | 34     |
| 1332 | Impacts of interrelated biotic and abiotic processes during the past 125 000 years of landscape evolution in the Northern Mojave Desert, Nevada, USA. <b>2007</b> , 69, 633-657 | 23     |
| 1331 | Modeling the Migration of Soluble Methanol in Unsaturated Soil Zone. <b>2007</b> , 17, 366-372  | 1      |
| 1330 | Upscaling for unsaturated flow for non-Gaussian heterogeneous porous media. <i>Water Resources Research</i> , <b>2007</b> , 43,   | 5-4 36 |
| 1329 | A Review of Multidimensional, Multifluid, Intermediate-Scale Experiments: Flow Behavior, Saturation Imaging, and Tracer Detection and Quantification. <b>2007</b> , 6, 610-637  | 46     |
| 1328 | Colloquium 2004: Hydrogeotechnical properties of hard rock tailings from metal mines and emerging geoenvironmental disposal approaches. <b>2007</b> , 44, 1019-1052             | 199    |
| 1327 | Water retention curve and hydraulic conductivity function of highly compressible materials. <b>2007</b> , 44, 1200-1214   | 15     |
| 1326 | Modélisation du séchage des bétons. <b>2007</b> , 11, 541-577   | 7      |
| 1325 | Constraining GPR data inversion using hydrodynamic laws for noninvasive soil hydraulic and electric property determination. <b>2007</b> ,                                       |        |
| 1324 | Modeling pesticide leaching and dissipation in a mediterranean littoral greenhouse. <b>2007</b> , 55, 7052-61   | 12     |

|      |   |     |    |
|------|---|-----|----|
| 1323 | EditorialâQuantifying the impact of hydrological studies. <b>2007</b> , 52, 3-17  |     | 27 |
| 1322 | Field experimental cells to evaluate the hydrogeological behaviour of oxygen barriers made of silty materials. <b>2007</b> , 44, 245-265  |     | 47 |
| 1321 | Experimental and numerical validation of the total trapping number for prediction of DNAPL mobilization. <b>2007</b> , 41, 8135-41  |     | 17 |
| 1320 | Leachate Recirculation Using Permeable Blankets in Engineered Landfills. <b>2007</b> , 133, 360-371   |     | 23 |
| 1319 | Characterizing unsaturated flow from packed scoriated lapilli: Application to Strombolian cone hydrodynamic behavior. <b>2007</b> , 335, 225-239  |     | 7  |
| 1318 | Effect of soil texture on the propagation and attenuation of acoustic wave at unsaturated conditions. <b>2007</b> , 338, 273-284  |     | 27 |
| 1317 | Estimating hydraulic properties of rainfall-induced soil surface seals from infiltration experiments and X-ray bulk density measurements. <b>2007</b> , 341, 12-26                                    |     | 20 |
| 1316 | Field-scale modeling of subsurface tile-drained soils using an equivalent-medium approach. <b>2007</b> , 341, 105-115   |     | 16 |
| 1315 | Philipâinfiltration equation for variable-head ponded infiltration. <b>2007</b> , 347, 173-176  |     | 9  |
| 1314 | Using HYDRUS-2D Simulation Model to Evaluate Wetted Soil Volume in Subsurface Drip Irrigation Systems. <b>2007</b> , 133, 342-349   |     | 60 |
| 1313 | Explicit analytical solutions for one-dimensional steady state flow in layered, heterogeneous unsaturated soils under random boundary conditions. <i>Water Resources Research</i> , <b>2007</b> , 43, | 5-4 | 5  |
| 1312 | Power series solution for falling head ponded infiltration with evaporation. <i>Water Resources Research</i> , <b>2007</b> , 43,  | 5-4 | 7  |
| 1311 | Infiltration from a strip source. <i>Water Resources Research</i> , <b>2007</b> , 43,   | 5-4 | 17 |
| 1310 | Water dynamics in a gradually nonhomogeneous soil described by the linearized Richards equation. <i>Water Resources Research</i> , <b>2007</b> , 43,  | 5-4 | 13 |
| 1309 | A simple accurate method to predict time of ponding under variable intensity rainfall. <i>Water Resources Research</i> , <b>2007</b> , 43,  | 5-4 | 50 |
| 1308 | Numerical evaluation of alternative heat pulse probe designs and analyses. <i>Water Resources Research</i> , <b>2007</b> , 43,  | 5-4 | 15 |
| 1307 | A soil-water retention function that includes the hyper-dry region through the BET adsorption isotherm. <i>Water Resources Research</i> , <b>2007</b> , 43,   | 5-4 | 26 |
| 1306 | Correspondence of the Gardner and van GenuchtenâMualem relative permeability function parameters. <i>Water Resources Research</i> , <b>2007</b> , 43,   | 5-4 | 36 |

|      |  |     |    |
|------|--|-----|----|
| 1305 | Modeling the effects of throughfall reduction on soil water content in a Brazilian Oxisol under a moist tropical forest. <i>Water Resources Research</i> , <b>2007</b> , 43, | 5-4 | 27 |
| 1304 | Estimation of saturated hydraulic conductivity $K_s$ from the van Genuchten shape parameter $\beta$<br><i>Water Resources Research</i> , <b>2007</b> , 43,                   | 5-4 | 32 |
| 1303 | Free-form estimation of the unsaturated soil hydraulic properties by inverse modeling using global optimization. <i>Water Resources Research</i> , <b>2007</b> , 43,         | 5-4 | 51 |
| 1302 | Long-term effects of restoration on soil hydraulic properties in revegetation-stabilized desert ecosystems. <b>2007</b> , 34,  |     | 24 |
| 1301 | Explicit Infiltration Function for Furrows. <b>2007</b> , 133, 307-313   |     | 22 |
| 1300 | Saturation-Dependent Hydraulic Conductivity Anisotropy for Multifluid Systems in Porous Media. <b>2007</b> , 6, 925-934  |     | 5  |
| 1299 | Impact Assessment of Existing Vadose Zone Contamination at the Hanford Site SX Tank Farm. <b>2007</b> , 6, 935-945   |     | 14 |
| 1298 | Physically Based Estimation of Soil Water Retention from Textural Data: General Framework, New Models, and Streamlined Existing Models. <b>2007</b> , 6, 766-773             |     | 32 |
| 1297 | Measurements and Modeling of Variable Gravity Effects on Water Distribution and Flow in Unsaturated Porous Media. <b>2007</b> , 6, 713-724                                   |     | 19 |
| 1296 | Coeficiente de cultura ( $K_c$ ) do cafeeiro ( <i>Coffea arabica</i> L.) no período de outono-inverno na região de Lavras - MG. <b>2007</b> , 27, 383-391                    |     | 6  |
| 1295 | Experimental Study on the Measurement of S-p Relations of LNAPL in a Porous Medium. <b>2007</b> , 47, 33-45  |     | 13 |
| 1294 | Vadose Zone Evapotranspiration Distribution Using One-Dimensional Analysis and Conceptualization for Integrated Modeling. <b>2007</b> ,                                      |     | 1  |
| 1293 | Uniqueness of Soil Hydraulic Parameters Determined by a Combined Wooding Inverse Approach. <b>2007</b> , 71, 860-865   |     | 28 |
| 1292 | Comparing Performance and Parameterization of a One-Dimensional Unsaturated Zone Model across Scales. <b>2007</b> , 6, 638-650   |     | 14 |
| 1291 | Effective Hydraulic Properties Determined from Transient Unsaturated Flow in Anisotropic Soils. <b>2007</b> , 6, 913-924   |     | 7  |
| 1290 | Savanna woodland soil micromorphology related to water retention. <b>2007</b> , 64, 344-354  |     | 17 |
| 1289 | Numerical Analysis of Passive Capillary Wick Samplers prior to Field Installation. <b>2007</b> , 71, 35-42   |     | 23 |
| 1288 | Hydrological analysis of the vadose zone using ground penetrating radar: a review. <b>2007</b> , 60, 455-466   |     |    |

|      |  |     |
|------|--|-----|
| 1287 | Predictions of rainfall-runoff response and soil moisture dynamics in a microscale catchment using the CREW model. <b>2007</b> , 11, 819-849     | 38  |
| 1286 | Explicit Formulae for Soil Water Diffusivity Using the One-Step Outflow Technique. <b>2007</b> , 71, 1685-1693                                   | 11  |
| 1285 | Experimental and Simulation Studies on Verification of Oil Recovery Enhancement by Film Flow. <b>2007</b> , 50, 169-177                          |     |
| 1284 | Carbon Tetrachloride Flow and Transport in the Subsurface of the 216-Z-9 Trench at the Hanford Site. <b>2007</b> , 6, 971-984                    | 27  |
| 1283 | Subsurface Water Distribution from Drip Irrigation Described by Moment Analyses. <b>2007</b> , 6, 116-123  | 39  |
| 1282 | Hydrologic processes at the urban residential scale. <b>2007</b> , 21, 2174-2188   | 49  |
| 1281 | A probabilistic investigation of infiltration in the vadose zone: proposal for a new formula of infiltration rate. <b>2007</b> , 21, 2845-2849   | 3   |
| 1280 | Estimating finite difference block equivalent hydraulic conductivity for numerically solving the Richards' equation. <b>2007</b> , 21, 3587-3600 | 3   |
| 1279 | Upscaling water savings from farm to irrigation system level using GIS-based agro-hydrological modelling. <b>2007</b> , 56, 29-42                | 24  |
| 1278 | Long-term InHM simulations of hydrologic response and sediment transport for the R-5 catchment. <b>2007</b> , 32, 1273-1292                      | 35  |
| 1277 | Applications of S-theory in the study of soil physical degradation and its consequences. <b>2007</b> , 18, 369-381                               | 60  |
| 1276 | Classã Canadian land surface scheme for GCMS. I. Soil model. <b>2007</b> , 11, 111-133   | 604 |
| 1275 | Modelling the effects of mulching and fallow cropping on water balance in the Chinese Loess Plateau. <b>2007</b> , 93, 283-298                   | 56  |
| 1274 | A method for prediction of soil penetration resistance. <b>2007</b> , 93, 412-419  | 95  |
| 1273 | Estimating soil water retention in a selected range of soil pores using tension disc infiltrometer data. <b>2007</b> , 97, 107-116               | 14  |
| 1272 | Leachate injection using vertical wells in bioreactor landfills. <b>2007</b> , 27, 1233-47   | 55  |
| 1271 | Underground condensation of humid air for drinking water production and subsurface irrigation. <b>2007</b> , 203, 417-434                        | 15  |
| 1270 | Testing the PEARL model in the Netherlands and Sweden. <b>2007</b> , 22, 937-950   | 15  |

|      |   |     |
|------|---|-----|
| 1269 | Water vapour sorption experiments on hardened cementitious materials. Part II: Essential tool for assessment of transport properties and for durability prediction. <b>2007</b> , 37, 438-454 | 129 |
| 1268 | An analysis of soil moisture dynamics using multi-year data from a network of micrometeorological observation sites. <b>2007</b> , 30, 1065-1081  | 59  |
| 1267 | Infiltration through series of soil aggregates: Neutron radiography and modeling. <b>2007</b> , 30, 1168-1178   | 48  |
| 1266 | Upscaling hydraulic conductivity based on the topology of the sub-scale structure. <b>2007</b> , 30, 1179-1189  | 27  |
| 1265 | Evaluation of the water retention curve for geosynthetic clay liners. <b>2007</b> , 25, 2-9   | 45  |
| 1264 | Characterisation of geotextiles water retention using a modified capillary pressure cell. <b>2007</b> , 25, 186-193   | 30  |
| 1263 | Testing MACRO (version 5.1) for pesticide leaching in a Dutch clay soil. <b>2007</b> , 63, 1011-25  | 22  |
| 1262 | Study of Water Movement in Unsaturated Copper Ore. <b>2007</b> , 17, 516-520  | 1   |
| 1261 | Percolation characteristics of a water-repellent sandy forest soil. <b>2007</b> , 59, 071121040925001-???   | 7   |
| 1260 | A partially coupled, fraction-by-fraction modelling approach to the subsurface migration of gasoline spills. <b>2007</b> , 89, 174-98   | 13  |
| 1259 | Modeling potential vadose-zone transport of nitrogen from onsite wastewater systems at the development scale. <b>2007</b> , 91, 184-201   | 43  |
| 1258 | Transport of simazine in unsaturated sandy soil and predictions of its leaching under hypothetical field conditions. <b>2007</b> , 94, 166-77   | 23  |
| 1257 | Effects of hysteresis ink-S-p relationships on the performance of minewaste soil covers. <b>2007</b> , 11, 241-247  | 4   |
| 1256 | A study of the water and energy transfer at the soil surface in cropped field on the Loess Plateau of northwestern China. <b>2007</b> , 52, 595-603   | 6   |
| 1255 | A new method for calculating hysteretic K(S) relationship. <b>2007</b> , 68, 175-185  | 4   |
| 1254 | Water flow between soil aggregates. <b>2007</b> , 68, 219-236   | 34  |
| 1253 | Low-frequency dilatational wave propagation through unsaturated porous media containing two immiscible fluids. <b>2007</b> , 68, 91-105   | 28  |
| 1252 | Influence of root resistivity on plant water uptake mechanism, part I: numerical solution. <b>2007</b> , 70, 63-79  | 8   |

|      |   |     |
|------|---|-----|
| 1251 | Influence of root resistivity on plant water uptake mechanism, Part II: analytical solutions for low/moderate soil-root conductivity ratio. <b>2007</b> , 70, 81-95     |     |
| 1250 | Spreadsheet Optimization for Parameter Estimation of Pressure Saturation Equations Used for Two-Phase Groundwater Flow. <b>2007</b> , 179, 57-65                        | 1   |
| 1249 | Numerical simulation of Richards equation in partially saturated porous media: under-relaxation and mass balance. <b>2007</b> , 25, 525-541                             | 25  |
| 1248 | Lattice Boltzmann modeling with discontinuous collision components: Hydrodynamic and Advection-Diffusion Equations. <b>2007</b> , 126, 157-206                          | 70  |
| 1247 | Modelling of planted legume fallows in Western Kenya using WaNuLCAS. (I) Model calibration and validation. <b>2007</b> , 70, 197-209                                    | 15  |
| 1246 | Model based prognosis of contaminant leaching for reuse of demolition waste in construction projects. <b>2007</b> , 12, 94-107  | 9   |
| 1245 | Geotechnical properties of an unsaturated pyroclastic soil from Roma. <b>2007</b> , 66, 403-414   | 18  |
| 1244 | Application of fractal theory to unsaturated soil mechanics. <b>2007</b> , 1, 411-421   |     |
| 1243 | Local discontinuous Galerkin approximations to Richards's equation. <b>2007</b> , 30, 555-575   | 30  |
| 1242 | Adaptive local discontinuous Galerkin approximation to Richards's equation. <b>2007</b> , 30, 1883-1901   | 24  |
| 1241 | Effects of agricultural practices on hydraulic properties and water movement in soils in Brittany (France). <b>2007</b> , 93, 251-263                                   | 35  |
| 1240 | Effects of different management practices on the soil-water balance and crop yield for improved dryland farming in the Chinese Loess Plateau. <b>2007</b> , 96, 131-144 | 107 |
| 1239 | Calibration of an integrated land surface process and radiobrightness (LSP/R) model during summertime. <b>2008</b> , 31, 189-202  | 8   |
| 1238 | A Linking Test to reduce the number of hydraulic parameters necessary to simulate groundwater recharge in unsaturated soils. <b>2008</b> , 31, 355-369                  | 25  |
| 1237 | From the pore scale to the lab scale: 3-D lab experiment and numerical simulation of drainage in heterogeneous porous media. <b>2008</b> , 31, 1253-1268                | 23  |
| 1236 | Unsaturated water flow across soil aggregate contacts. <b>2008</b> , 31, 1221-1232  | 77  |
| 1235 | Solute dilution under imbibition and drainage conditions in a heterogeneous structure: Modeling of a sand tank experiment. <b>2008</b> , 31, 1242-1252                  | 11  |
| 1234 | Measuring the effect of structural connectivity on the water dynamics in heterogeneous porous media using speedy neutron tomography. <b>2008</b> , 31, 1233-1241        | 24  |

|      |   |     |
|------|---|-----|
| 1233 | Parameter estimation in flow through partially saturated porous materials. <b>2008</b> , 227, 10243-10262   | 18  |
| 1232 | Front Solutions of Richards's Equation. <b>2008</b> , 74, 1-20  | 15  |
| 1231 | Effect of Slow and Fast Moving Liquid Zones on Solute Transport in Porous Media. <b>2008</b> , 75, 227  | 3   |
| 1230 | Simulating Nitrate Leaching Profiles in a Highly Permeable Vadose Zone. <b>2008</b> , 13, 527-539   | 19  |
| 1229 | Laboratory Hydraulic Testing in Unsaturated Soils. <b>2008</b> , 26, 691-704  | 47  |
| 1228 | Microstructure Investigation in Unsaturated Soils: A Review with Special Attention to Contribution of Mercury Intrusion Porosimetry and Environmental Scanning Electron Microscopy. <b>2008</b> , 26, 705-727 | 282 |
| 1227 | A distributed water-heat coupled model for mountainous watershed of an inland river basin of Northwest China (I) model structure and equations. <b>2008</b> , 53, 1299-1309                                   | 37  |
| 1226 | Water integration by plants root under non-uniform soil salinity. <b>2008</b> , 27, 83-95   | 33  |
| 1225 | Thermodynamic watershed hydrological model: Constitutive relationship. <b>2008</b> , 51, 1353-1369  | 18  |
| 1224 | Simulation of groundwater and nuclide transport in the near-field of the high-level radioactive waste repository with TOUGHREACT. <b>2008</b> , 27, 299-305   | 1   |
| 1223 | Effect of soil disturbance on recharging fluxes: case study on the Snake River Plain, Idaho National Laboratory, USA. <b>2008</b> , 16, 829-844   | 8   |
| 1222 | Comparison of soil physical properties in evergreen and deciduous forests in central Cambodia. <b>2008</b> , 13, 15-24  | 6   |
| 1221 | Estimation of paddy water productivity (WP) using hydrological model: an experimental study. <b>2008</b> , 6, 327-339   | 19  |
| 1220 | Impacts of precipitation events and land-use changes on West African river discharges during the years 1951-2000. <b>2008</b> , 31, 249-262   | 14  |
| 1219 | Pedotransfer functions estimating soil hydraulic properties using different soil parameters. <b>2008</b> , 22, 1630-1639  | 33  |
| 1218 | An efficient methodology for estimating irrigation return flow coefficients of irrigated crops at watershed and seasonal scale. <b>2008</b> , 22, 1700-1712   | 76  |
| 1217 | A new saturated/unsaturated model for stormwater infiltration systems. <b>2008</b> , 22, 4838-4849  | 33  |
| 1216 | Modelling soil moisture and assessing its impacts on water sharing and crop yield for the Wadi Laba spate irrigation system, Eritrea. <b>2008</b> , 57, 41-56   | 12  |

|      |   |     |
|------|---|-----|
| 1215 | Locally conservative, stabilized finite element methods for variably saturated flow. <b>2008</b> , 197, 4610-4625   | 40  |
| 1214 | Modelling of coupled ion and moisture transport in porous building materials. <b>2008</b> , 22, 2185-2195   | 46  |
| 1213 | A river water pollution model for assessment of best management practices for livestock farming. <b>2008</b> , 99, 292-303  | 12  |
| 1212 | Multi-step and two-step experiments in heterogeneous porous media to evaluate the relevance of dynamic effects. <b>2008</b> , 31, 181-188   | 15  |
| 1211 | A generalized transformation approach for simulating steady-state variably-saturated subsurface flow. <b>2008</b> , 31, 313-323   | 10  |
| 1210 | Reprint of "Multi-step and two-step experiments in heterogeneous porous media to evaluate the relevance of dynamic effects" <b>2008</b> , 31, I-VIII  | 1   |
| 1209 | Higher and lowest order mixed finite element approximation of subsurface flow problems with solutions of low regularity. <b>2008</b> , 31, 370-382  | 16  |
| 1208 | A physical-chemical model for the static water retention characteristic of unsaturated porous media. <b>2008</b> , 31, 701-713  | 9   |
| 1207 | Dimensional analysis of two-phase flow including a rate-dependent capillary pressure-saturation relationship. <b>2008</b> , 31, 1137-1150   | 40  |
| 1206 | Prediction of capillary hysteresis in a porous material using lattice-Boltzmann methods and comparison to experimental data and a morphological pore network model. <b>2008</b> , 31, 1151-1173 | 143 |
| 1205 | Propagation and attenuation of Rayleigh waves in a semi-infinite unsaturated poroelastic medium. <b>2008</b> , 31, 1399-1410  | 36  |
| 1204 | The influence of wettability on NAPL dissolution fingering. <b>2008</b> , 31, 1687-1696   | 22  |
| 1203 | Variation of infiltration rate through karstic surfaces due to land use changes: A case study in Murgia (SE-Italy). <b>2008</b> , 99, 210-227   | 23  |
| 1202 | Soil physical properties and wheat root growth as affected by no-tillage and conventional tillage systems in a Mediterranean environment of Chile. <b>2008</b> , 99, 232-244                    | 126 |
| 1201 | Mobilization analysis of the dolmen of Dombate (Northwest Spain). <b>2008</b> , 100, 59-68  | 3   |
| 1200 | A Linking Test that establishes if groundwater recharge can be determined by optimising vegetation parameters against soil moisture. <b>2008</b> , 65, 702-702                                  | 5   |
| 1199 | Determination of soil hydrophysical characteristics in the Ivankovo Reservoir watershed. <b>2008</b> , 35, 330-338  |     |
| 1198 | Comparison of Field Performance of Multiple Soil Moisture Sensors in a Semi-Arid Rangeland1. <b>2008</b> , 44, 121-135  | 24  |

|      |   |     |     |
|------|---|-----|-----|
| 1197 | Soil air compression in clays during flood irrigation. <b>2008</b> , 59, 799-806  |     | 6   |
| 1196 | Free-Form estimation of soil hydraulic properties using Windâ€ method. <b>2008</b> , 59, 1228-1240  |     | 12  |
| 1195 | Long-term carbon loss and CO <sub>2</sub> -C release of drained peatland soils in northeast Germany. <b>2008</b> , 59, 1076-1086  | 42  |     |
| 1194 | A MATLAB program for estimation of unsaturated hydraulic soil parameters using an infiltrometer technique. <b>2008</b> , 34, 861-875                                    |     | 6   |
| 1193 | Modeling of carbon sequestration in coal-beds: A variable saturated simulation. <b>2008</b> , 49, 2849-2858   |     | 21  |
| 1192 | The impact of upland land management on flooding: insights from a multiscale experimental and modelling programme. <b>2008</b> , 1, 71-80                               |     | 47  |
| 1191 | Application of a lumped-process mathematical model to dissolution of non-uniformly distributed immiscible liquid in heterogeneous porous media. <b>2008</b> , 100, 1-10 |     | 17  |
| 1190 | Analysis of runoffâ€ storage relationships to evaluate the runoff-buffering potential of a sloping permeable domain. <b>2008</b> , 360, 132-146                         |     | 22  |
| 1189 | Development and Applications of the HYDRUS and STANMOD Software Packages and Related Codes. <b>2008</b> , 7, 587-600  |     | 787 |
| 1188 | Inverse Modeling of Subsurface Flow and Transport Properties: A Review with New Developments. <b>2008</b> , 7, 843-864  |     | 158 |
| 1187 | A Numerical Procedure to Calculate Hydraulic Conductivity for an Arbitrary Pore Size Distribution. <b>2008</b> , 7, 461-472   |     | 12  |
| 1186 | Parameterization and evaluation of a three-dimensional modelling approach to water table recharge from seepage losses in a ditch. <b>2008</b> , 348, 350-362            |     | 7   |
| 1185 | Evaluating the parameter identifiability and structural validity of a probability-distributed model for soil moisture. <b>2008</b> , 353, 93-108                        |     | 24  |
| 1184 | Simplified evaporation method for determining soil hydraulic properties. <b>2008</b> , 356, 147-162   |     | 198 |
| 1183 | PHYSICAL CHARACTERISTICS OF SOILLESS MEDIA. <b>2008</b> , 41-116  |     | 19  |
| 1182 | Analytical and numerical analyses of an unconfined aquifer test considering unsaturated zone characteristics. <i>Water Resources Research</i> , <b>2008</b> , 44,       | 5-4 | 33  |
| 1181 | A perturbative view on the subsurface water pressure response at hillslope scale. <i>Water Resources Research</i> , <b>2008</b> , 44,                                   | 5-4 | 7   |
| 1180 | Effects of paleoclimate and time-varying canopy structures on paleowater fluxes. <b>2008</b> , 113,   |     | 9   |

|      |   |     |     |
|------|---|-----|-----|
| 1179 | Near-surface soil moisture assimilation for quantifying effective soil hydraulic properties using genetic algorithm: 1. Conceptual modeling. <i>Water Resources Research</i> , <b>2008</b> , 44,            | 5-4 | 49  |
| 1178 | Parameter conditioning with a noisy Monte Carlo genetic algorithm for estimating effective soil hydraulic properties from space. <i>Water Resources Research</i> , <b>2008</b> , 44,                        | 5-4 | 23  |
| 1177 | Statistical evaluation and choice of soil water retention models. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 2   |
| 1176 | Influence of perched groundwater on base flow. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 16  |
| 1175 | Inverse modeling of unsaturated flow parameters using dynamic geological structure conditioned by GPR tomography. <i>Water Resources Research</i> , <b>2008</b> , 44,                                       | 5-4 | 9   |
| 1174 | Application of the finite difference heterogeneous multiscale method to the Richards' equation. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 11  |
| 1173 | Rain-induced subsurface airflow and Lisse effect. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 38  |
| 1172 | Understanding and predicting deep percolation under surface irrigation. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 46  |
| 1171 | Drying front and water content dynamics during evaporation from sand delineated by neutron radiography. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 150 |
| 1170 | A Markov chain Monte Carlo algorithm for upscaled soil-vegetation-atmosphere-transfer modeling to evaluate satellite-based soil moisture measurements. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 13  |
| 1169 | Evolution of unsaturated hydraulic conductivity of aggregated soils due to compressive forces. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 24  |
| 1168 | Numerical study of airflow in the unsaturated zone induced by sea tides. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 31  |
| 1167 | Interfacial area based variable tortuosity-connectivity for unsaturated media: A comparison using Miller's Miller scaling and Arya's Paris model. <i>Water Resources Research</i> , <b>2008</b> , 44,       | 5-4 | 4   |
| 1166 | A simplified parameterization of the monthly topsoil water budget. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 33  |
| 1165 | Uniqueness and stability analysis of hydrogeophysical inversion for time-lapse ground-penetrating radar estimates of shallow soil hydraulic properties. <i>Water Resources Research</i> , <b>2008</b> , 44, | 5-4 | 33  |
| 1164 | Water Drainage in Double-Porosity Soils: Experiments and Micro-Macro Modeling. <b>2008</b> , 134, 231-243   |     | 17  |
| 1163 | Characteristic lengths affecting evaporative drying of porous media. <b>2008</b> , 77, 056309   |     | 283 |
| 1162 | Corrosion-induced gas generation in a nuclear waste repository: Reactive geochemistry and multiphase flow effects. <b>2008</b> , 23, 3423-3433  |     | 41  |

|      |  |     |     |
|------|--|-----|-----|
| 1161 | Increasing water productivity of irrigated crops under limited water supply at field scale. <b>2008</b> , 95, 89-102   |     | 73  |
| 1160 | Summer cover crop impacts on soil percolation and nitrogen leaching from a winter corn field. <b>2008</b> , 95, 633-644  |     | 24  |
| 1159 | Evaluation of DRAINMOD using saturated hydraulic conductivity estimated by a pedotransfer function model. <b>2008</b> , 95, 1135-1143  |     | 12  |
| 1158 | Simulation of nitrate leaching under irrigated maize on sandy soil in desert oasis in Inner Mongolia, China. <b>2008</b> , 95, 1180-1188   |     | 53  |
| 1157 | Identification of relative conductivity models for water flow and solute transport in unsaturated bentonite. <b>2008</b> , 33, S177-S185   |     | 36  |
| 1156 | Dynamic capillary pressure, hysteresis and gravity-driven fingering in porous media. <b>2008</b> , 138, 012023   |     | 16  |
| 1155 | A user-friendly water retention function that takes account of the textural and structural pore spaces in soil. <b>2008</b> , 143, 243-253   |     | 135 |
| 1154 | The effects of simple perturbations of a process model on the spatial variability of its output. <b>2008</b> , 145, 267-277  |     | 2   |
| 1153 | Focused flow in the unsaturated zone after surface ponding of snowmelt. <b>2008</b> , 53, 42-55  |     | 3   |
| 1152 | Capillary bundle model of hydraulic conductivity for frozen soil. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 92  |
| 1151 | Interpretation of water retention field measurements in relation to hysteresis phenomena. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 20  |
| 1150 | Considerations for measuring pressure head and water content in inclined boreholes. <i>Water Resources Research</i> , <b>2008</b> , 44,  | 5-4 | 3   |
| 1149 | A simple model for describing hydraulic conductivity in unsaturated porous media accounting for film and capillary flow. <i>Water Resources Research</i> , <b>2008</b> , 44,                                     | 5-4 | 85  |
| 1148 | Combining multiobjective optimization and Bayesian model averaging to calibrate forecast ensembles of soil hydraulic models. <i>Water Resources Research</i> , <b>2008</b> , 44,                                 | 5-4 | 50  |
| 1147 | Modeling of nonaqueous phase liquid (NAPL) migration in heterogeneous saturated media: Effects of hysteresis and fluid immobility in constitutive relations. <i>Water Resources Research</i> , <b>2008</b> , 44, | 5-4 | 13  |
| 1146 | Multiphase flow predictions from carbonate pore space images using extracted network models. <i>Water Resources Research</i> , <b>2008</b> , 44,   | 5-4 | 36  |
| 1145 | Two-scale modeling of unsaturated water flow in a double-porosity medium under axisymmetric conditions. <b>2008</b> , 45, 238-251  |     | 17  |
| 1144 | Anisotropy of Soil Hydraulic Properties Along Arable Slopes. <b>2008</b> , 18, 353-362   |     | 20  |

|      |  |    |
|------|--|----|
| 1143 | Modélisation du transfert de l'eau et des sels dans les casiers rizicoles du Delta du Fleuve Sénégal. <b>2008</b> , 21, 325-336                                      | 6  |
| 1142 | . <b>2008</b> ,  | 1  |
| 1141 | Analysis of Galerkin-characteristics algorithm for variably saturated flow in porous media. <b>2008</b> , 85, 509-525  | 5  |
| 1140 | Observed and Simulated Soil Moisture Variability over the Lower Mississippi Delta Region. <b>2008</b> , 9, 1125-1150   | 13 |
| 1139 | Groundwater Mounding in the Vadose Zone from On-Site Wastewater Systems: Analytical and Numerical Tools. <b>2008</b> , 13, 710-719                                   | 5  |
| 1138 | A long-term hydrological soil study on the effects of soil and land use on deep seepage dynamics in northeast Germany. <b>2008</b> , 54, 451-463                     | 8  |
| 1137 | Numerical modeling of rainfall thresholds for shallow landsliding in the Seattle, Washington, area. <b>2008</b> ,  | 12 |
| 1136 | Modeling the Dynamic Water Transport in the Porous Layers of PEM Fuel Cells Based on Numerical Upscaling. <b>2008</b> , 155, B1066                                   | 12 |
| 1135 | Lateral migration and offsite surface emission of landfill gas at City of Montreal Landfill Site. <b>2008</b> , 26, 121-31   | 21 |
| 1134 | Unsaturated Soil Seepage Analysis Using a Rational Transformation Method with Under-Relaxation. <b>2008</b> , 8, 207-212   | 5  |
| 1133 | Influence of Hydraulic Loading and Effluent Flux on Surface Surcharging in Soil Absorption Systems. <b>2008</b> , 13, 681-692  | 20 |
| 1132 | Depuration of highway runoff water into grass-covered embankments. <b>2008</b> , 29, 709-20  | 13 |
| 1131 | Capillary Pressure and Relative Permeability of Small Cores. <b>2008</b> ,   | 5  |
| 1130 | Seepage through side slopes of small water impoundments. <b>2008</b> , 15, 296-303   | 1  |
| 1129 | Comparison of Three Multiobjective Optimization Algorithms for Inverse Modeling of Vadose Zone Hydraulic Properties. <b>2008</b> , 72, 305-319                       | 91 |
| 1128 | Mass transport through concrete walls subjected to high temperature and gas pressure. <b>2008</b> , 9, 55-61   |    |
| 1127 | MODFLOW SURFACT: A State-of-the-Art Use of Vadose Zone Flow and Transport Equations and Numerical Techniques for Environmental Evaluations. <b>2008</b> , 7, 610-631 | 28 |
| 1126 | Deriving point and parametric pedotransfer functions of some gypsiferous soils. <b>2008</b> , 46, 219  | 9  |

|      |  |    |
|------|--|----|
| 1125 | Drainage water reuse: biological, physical, and technological considerations for system management. <b>2008</b> , 37, S25-35                                 | 37 |
| 1124 | USING THE TRANSPIRATION REGIME TO ESTIMATE BIOMASS PRODUCTION. <b>2008</b> , 173, 401-407  | 12 |
| 1123 | Near-Surface Soil Moisture Assimilation for Quantifying Effective Soil Hydraulic Properties under Different Hydroclimatic Conditions. <b>2008</b> , 7, 39-52 | 39 |
| 1122 | Surfactant-Induced Unsaturated Flow: Instrumented Horizontal Flow Experiment and Hysteretic Modeling. <b>2008</b> , 72, 1510-1519                            | 8  |
| 1121 | Condições de drenagem relacionadas ao trânsito de máquinas em solo de várzea (RS-Brasil). <b>2008</b> , 12, 98-105   | 3  |
| 1120 | The Adequacy of Pressure Plate Apparatus for Determining Soil Water Retention. <b>2008</b> , 72, 41-49   | 63 |
| 1119 | Modelos de ajuste e métodos para a determinação da curva de retenção de água de um Latossolo-vermelho-amarelo. <b>2008</b> , 32, 515-523                     | 10 |
| 1118 | Sensitivity of the West African hydrological cycle in ORCHIDEE to infiltration processes. <b>2008</b> , 12, 1387-1401  | 85 |
| 1117 | Evapotranspiração e produtividade da mangueira sob diferentes tratamentos de irrigação. <b>2008</b> , 12, 150-156  | 13 |
| 1116 | Simulating sulfadimidine transport in surface runoff and soil at the microplot and field scale. <b>2008</b> , 37, 788-97                                     | 14 |
| 1115 | Hydrogeological study of an anti-tank range. <b>2008</b> , 37, 1468-76   | 5  |
| 1114 | Quasi Steady-State Simulation of the Unsaturated Zone in Groundwater Modeling of Lowland Regions. <b>2008</b> , 7, 769-781                                   | 40 |
| 1113 | A New Approach to Estimate Soil Hydraulic Parameters Using Only Soil Water Retention Data. <b>2008</b> , 72, 471-479   | 13 |
| 1112 | A Method to Determine Unsaturated Hydraulic Conductivity in Living and Undecomposed Sphagnum Moss. <b>2008</b> , 72, 487-491                                 | 74 |
| 1111 | Scalable Modeling of Carbon Tetrachloride Migration at the Hanford Site Using the STOMP Simulator. <b>2008</b> , 7, 654-666                                  | 22 |
| 1110 | Impact of Soil Micromorphological Features on Water Flow and Herbicide Transport in Soils. <b>2008</b> , 7, 798-809  | 45 |
| 1109 | Integration of Hard and Soft Data to Characterize Field-Scale Hydraulic Properties for Flow and Transport Studies. <b>2008</b> , 7, 878-889                  | 7  |
| 1108 | A New Standpipe Lysimeter Design for the Measurement of Soil Matric Suction. <b>2008</b> , 7, 919-929  | 2  |

|      |   |     |
|------|---|-----|
| 1107 | Estimation of Unsaturated Flow Parameters Using GPR Tomography and Groundwater Table Data. <b>2008</b> , 7, 1239-1252   | 2   |
| 1106 | Variations in pesticide leaching related to land use, pesticide properties, and unsaturated zone thickness. <b>2008</b> , 37, 1145-57   | 25  |
| 1105 | Spatially Distributed Water Fluxes in an Andisol under Banana Plants: Experiments and Three-Dimensional Modeling. <b>2008</b> , 7, 819-829  | 32  |
| 1104 | FUNCTIONAL MODELS TO PREDICT AIR PERMEABILITY COEFFICIENT FROM WATER CHARACTERISTIC CURVE OF UNSATURATED SOILS. <b>2008</b> , 64, 650-661   | 1   |
| 1103 | WATER INFILTRATION ANALYSIS IN THE UNSATURATED-HETEROGENEOUS FIELD. <b>2008</b> , 64, 30-40   | 1   |
| 1102 | Hydrogeological relationships of sandy deposits: modeling of two-dimensional unsaturated water and pesticide transport. <b>2008</b> , 37, 1909-17   | 4   |
| 1101 | Transport of pesticides via macropores (IUPAC Technical Report). <b>2008</b> , 80, 105-160  | 19  |
| 1100 | Measurement of Transient Soil Water Flux Across a Soil Horizon Interface. <b>2009</b> , 73, 1604-1613   | 6   |
| 1099 | Effective Soil Hydraulic Parameters for Transient Flows in Heterogeneous Soils. <b>2009</b> , 8, 301-309  | 10  |
| 1098 | The Influence of Biofilm Spatial Distribution Scenarios on Hydraulic Conductivity of Unsaturated Soils. <b>2009</b> , 8, 1080-1084  | 12  |
| 1097 | Three-Dimensional Modeling of Multiple Automated Equilibrium Tension Lysimeters to Measure Vadose Zone Fluxes. <b>2009</b> , 8, 1051-1063   | 19  |
| 1096 | A Second-Order Accurate, Finite Volume-Based, Integrated Hydrologic Modeling (FIHM) Framework for Simulation of Surface and Subsurface Flow. <b>2009</b> , 8, 873-890                       | 73  |
| 1095 | Effects of Anion Adsorption Characteristics of a Volcanic Ash Soil on Long-term NO <sub>3</sub> - Leaching from a Partial Clear-cut Cedar and Cypress Watershed.. <b>2009</b> , 91, 184-191 | 2   |
| 1094 | The Effect of Various Soil Hydraulic Property Estimates on Soil Moisture Simulations. <b>2009</b> , 8, 321-331  | 52  |
| 1093 | Comparative predictions of discharge from an artificial catchment (Chicken Creek) using sparse data. <b>2009</b> , 13, 2069-2094  | 86  |
| 1092 | Using an inverse modelling approach to evaluate the water retention in a simple water harvesting technique. <b>2009</b> , 13, 1979-1992   | 22  |
| 1091 | Revisiting Vereecken Pedotransfer Functions: Introducing a Closed-Form Hydraulic Model. <b>2009</b> , 8, 86-95  | 129 |
| 1090 | An alternative deterministic method for the spatial interpolation of water retention parameters. <b>2009</b> , 13, 453-465  | 9   |

|      |  |     |
|------|--|-----|
| 1089 | Avaliaçã de lavagem parcial de sais em neossolo fãlvico irrigado, utilizando modelagem computacional. <b>2009</b> , 29, 207-220              | 5   |
| 1088 | Uso do ãndice S na determinaã da condutividade hidrãlica nã-saturada de solos do cerrado brasileiro. <b>2009</b> , 13, 376-381               | 4   |
| 1087 | Errors in Water Retention Curves Determined with Pressure Plates. <b>2009</b> , 73, 1453-1460  | 124 |
| 1086 | Simulation of pharmaceutical and personal care product transport to tile drains after biosolids application. <b>2009</b> , 38, 1274-85       | 27  |
| 1085 | Field-scale apparent hydraulic parameterisation obtained from TDR time series and inverse modelling. <b>2009</b> , 13, 1953-1966             | 38  |
| 1084 | A METHOD OF SEEPAGE-DEFORMATION COUPLED ANALYSIS OF UNSATURATED GROUND AND ITS APPLICATION TO RIVER EMBANKMENT. <b>2009</b> , 65, 226-240    |     |
| 1083 | A NEW METHOD FOR EVALUATING WATER BEHAVIOR IN UNSATURATED SOIL BASED ON GROUND TEMPERATURE MEASUREMENT RESULTS. <b>2009</b> , 65, 334-348    |     |
| 1082 | Providing Optimal Root-Zone Fluid Fluxes: Effects of Hysteresis on Capillary-Dominated Water Distributions in Reduced Gravity. <b>2009</b> , | 4   |
| 1081 | Simulation of Heat and Water Counterflow in Unsaturated Compacted Bentonite. <b>2009</b> , 26, 589-599                                       | 3   |
| 1080 | Protocol for the assessment of unsaturated soil properties in geotechnical engineering practice. <b>2009</b> , 46, 694-707                   | 25  |
| 1079 | Variability in Specific Yield under Shallow Water Table Conditions. <b>2009</b> , 14, 1290-1298  | 24  |
| 1078 | Remarks upon numerical solutions of infiltration into a soil profile. <b>2009</b> , 54, 349-362  |     |
| 1077 | On the Importance of Hysteresis in Numerical Modeling of Surfactant-Induced Unsaturated Flow. <b>2009</b> , 18, 264-283                      | 7   |
| 1076 | Modeling of Flow and Advection Dominant Solute Transport in Variably Saturated Porous Media. <b>2009</b> , 14, 1-14                          | 13  |
| 1075 | Case Study of a Full-Scale Evapotranspiration Cover. <b>2009</b> , 135, 316-332  | 16  |
| 1074 | Integrated Reservoir-Based Canal Irrigation Model. II: Application. <b>2009</b> , 135, 158-168   | 2   |
| 1073 | An Efficient Lumped Mixed Hybrid Finite Element Formulation for Variably Saturated Groundwater Flow. <b>2009</b> , 8, 352-362                | 20  |
| 1072 | Hydraulic Properties of Variously Weathered Granitic Bedrock in Headwater Catchments. <b>2009</b> , 8, 557-573                               | 38  |

|      |  |     |
|------|--|-----|
| 1071 | Water Infiltration and Redistribution in Soil Aggregate Packings. <b>2009</b> , 8, 150-157   | 12  |
| 1070 | Non-destructive monitoring of nitrate concentration in a laboratory flow experiment using time domain reflectometry (TDR). <b>2009</b> , 30, 101-9   | 7   |
| 1069 | Irrigation Scheduling—Role of Weather Forecasting and Farmers' Behavior. <b>2009</b> , 135, 364-372  | 47  |
| 1068 | Storm-Water Infiltration and Focused Recharge Modeling with Finite-Volume Two-Dimensional Richards Equation: Application to an Experimental Rain Garden. <b>2009</b> , 135, 1073-1080  | 39  |
| 1067 | Theoretical Soil-Water Characteristic Curves Based on Adsorption, Cavitation, and a Double Porosity Model. <b>2009</b> , 9, 250-257  | 65  |
| 1066 | Quantitative assessment of intrinsic groundwater vulnerability to contamination using numerical simulations. <b>2009</b> , 408, 245-54   | 32  |
| 1065 | Impact of varying soil structure on transport processes in different diagnostic horizons of three soil types. <b>2009</b> , 104, 107-25  | 73  |
| 1064 | Degassing of $3\text{H}/3\text{He}$ , CFCs and $\text{SF}_6$ by denitrification: measurements and two-phase transport simulations. <b>2009</b> , 103, 206-18   | 24  |
| 1063 | Modeling of biological clogging in unsaturated porous media. <b>2009</b> , 106, 39-50  | 36  |
| 1062 | A model for flow in the chalk unsaturated zone incorporating progressive weathering. <b>2009</b> , 365, 244-260  | 51  |
| 1061 | A root zone modelling approach to estimating groundwater recharge from irrigated areas. <b>2009</b> , 367, 138-149   | 113 |
| 1060 | Application of the environmental isotope $\delta^{18}\text{O}$ to study water flow in unsaturated soils planted with different crops: Case study of a weighable lysimeter from the research field in Neuherberg, Germany. <b>2009</b> , 368, 68-78 | 38  |
| 1059 | Comparison of steady-state and transient flow conditions on reactive transport of contaminants in the vadose soil zone. <b>2009</b> , 369, 225-233   | 24  |
| 1058 | Calibration of hydraulic parameters for large-scale vertical flow constructed wetlands. <b>2009</b> , 369, 260-273   | 27  |
| 1057 | Environmental isotope ( $\delta^{18}\text{O}$ ) and hydrological data to assess water flow in unsaturated soils planted with different crops: Case study lysimeter station "Wagna" (Austria). <b>2009</b> , 369, 198-208                           | 56  |
| 1056 | An easily implemented agro-hydrological procedure with dynamic root simulation for water transfer in the crop-soil system: Validation and application. <b>2009</b> , 370, 177-190  | 45  |
| 1055 | Effects of meteorological models on the solution of the surface energy balance and soil temperature variations in bare soils. <b>2009</b> , 373, 545-561   | 23  |
| 1054 | An adaptive multiscale finite element method for unsaturated flow problems in heterogeneous porous media. <b>2009</b> , 374, 56-70   | 12  |

|      |  |    |
|------|--|----|
| 1053 | Persistency of flow patterns in a water repellent sandy soil – Conclusions of TDR readings and a time-delayed double tracer experiment. <b>2009</b> , 375, 524-535             | 33 |
| 1052 | Unsaturated 2D modelling of subsurface water flow in the coarse-grained porous matrix of a green roof. <b>2009</b> , 379, 193-204  | 96 |
| 1051 | Sensitivity of drainage to rainfall, vegetation and soil characteristics. <b>2009</b> , 68, 1-8  | 18 |
| 1050 | Carbon sequestration in coal-beds with structural deformation effects. <b>2009</b> , 50, 1586-1594   | 22 |
| 1049 | A constitutive model for water flow in unsaturated fractured rocks. <b>2009</b> , 23, 697-701  | 8  |
| 1048 | Evaluation of pedotransfer functions for estimating soil hydraulic properties of prevalent soils in a catchment of the Bavarian Alps. <b>2009</b> , 128, 609-620               | 32 |
| 1047 | Liquid water diffusivity of wood from the capillary pressure-moisture relation. <b>2009</b> , 55, 91-99  | 15 |
| 1046 | Simulation-based calibration of geotechnical parameters using parallel hybrid moving boundary particle swarm optimization. <b>2009</b> , 36, 604-615                           | 39 |
| 1045 | Anisotropic and field-specific higher order spatial discretization methods for multiphase durability analyses. <b>2009</b> , 87, 1349-1359                                     | 1  |
| 1044 | Two-phase, partially miscible flow and transport modeling in porous media; application to gas migration in a nuclear waste repository. <b>2009</b> , 13, 29-42                 | 39 |
| 1043 | Analytical decoupling of poroelasticity equations for acoustic-wave propagation and attenuation in a porous medium containing two immiscible fluids. <b>2009</b> , 64, 219-235 | 16 |
| 1042 | Water distribution under trickle irrigation predicted using artificial neural networks. <b>2009</b> , 64, 207-218  | 36 |
| 1041 | Simulated cereal nitrogen uptake and soil mineral nitrogen after clover-grass leys. <b>2009</b> , 85, 1-15   | 6  |
| 1040 | Comments on “Abrupt-Interface Solution for Carbon dioxide Injection into Porous Media” by M. Dentz and D. Tartakovsky. <b>2009</b> , 79, 29-37                                 | 16 |
| 1039 | Isotope Oxygen-18 as Natural Tracer of Water Movement in a Coarse Gravel Unsaturated Zone. <b>2009</b> , 203, 291-303  | 3  |
| 1038 | Water-use patterns of tall fescue and hybrid bluegrass cultivars subjected to ET-based irrigation scheduling. <b>2009</b> , 27, 377-391  | 9  |
| 1037 | A Study on Unsteady Seepage Flow Through Dam. <b>2009</b> , 21, 499-504  | 34 |
| 1036 | A refined lack-of-fit statistic to calibrate pesticide fate models for responsive systems. <b>2009</b> , 65, 1367-77   | 6  |

|      |   |        |
|------|---|--------|
| 1035 | Comparison of the soil hydraulic conductivity predicted from its water retention expressed by the equation of Van Genuchten and different capillary models. <b>2009</b> , 60, 671-680 | 15     |
| 1034 | Multistep outflow experiments to derive a soil hydraulic database for forest soils. <b>2009</b> , 60, 792-806   | 16     |
| 1033 | Ecohydrological effects of grazing-induced degradation in the Patagonian Monte, Argentina. <b>2009</b> , 34, 545-557  | 24     |
| 1032 | Model-based prediction of long-term leaching of contaminants from secondary materials in road constructions and noise protection dams. <b>2009</b> , 29, 839-50                       | 32     |
| 1031 | Reliability of resistivity quantification for shallow subsurface water processes. <b>2009</b> , 68, 404-416   | 18     |
| 1030 | Adaptive rational spectral methods for the linear stability analysis of nonlinear fourth-order problems. <b>2009</b> , 228, 6536-6552   | 11     |
| 1029 | Diphasic modelling of vertical flow filter. <b>2009</b> , 35, 47-56   | 13     |
| 1028 | A Receding Horizon Control algorithm for adaptive management of soil moisture and chemical levels during irrigation. <b>2009</b> , 24, 1112-1121                                      | 25     |
| 1027 | An easy and efficient combination of the Mixed Finite Element Method and the Method of Lines for the resolution of Richards's Equation. <b>2009</b> , 24, 1122-1126                   | 38     |
| 1026 | Laboratory and field testing of an automated tension infiltrometer. <b>2009</b> , 104, 266-277  | 5      |
| 1025 | Multi-objective optimization in variably saturated fluid flow. <b>2009</b> , 223, 801-819   | 10     |
| 1024 | Effect of mineral reactions on the hydraulic properties of unsaturated soils: Model development and application. <b>2009</b> , 32, 1241-1254  | 18     |
| 1023 | A phase field model of unsaturated flow. <i>Water Resources Research</i> , <b>2009</b> , 45,  | 5.4 63 |
| 1022 | Climate sensitivity of soil water regime of different Hungarian Chernozem soil subtypes. <b>2009</b> , 64, 496-501  | 3      |
| 1021 | Stability analysis of a phase-field model of gravity-driven unsaturated flow through porous media. <b>2009</b> , 79, 036301   | 38     |
| 1020 | Evaporation and capillary coupling across vertical textural contrasts in porous media. <b>2009</b> , 80, 046318   | 76     |
| 1019 | Rebar corrosion in carbonated concrete exposed to variable humidity conditions. Interpretation of Tuutti's curve. <b>2009</b> , 51, 1747-1756   | 22     |
| 1018 | A novel approach in model-based mapping of soil water conditions at forest sites. <b>2009</b> , 258, 2163-2174  | 36     |

|      |   |     |    |
|------|---|-----|----|
| 1017 | Biexponential model for water retention characteristics. <b>2009</b> , 149, 235-242   |     | 21 |
| 1016 | Generic soil descriptions for modelling water and chloride dynamics in the unsaturated zone based on Swedish soils. <b>2009</b> , 150, 85-95  |     | 10 |
| 1015 | The relationship between surface fractal dimension and soil water content at permanent wilting point. <b>2009</b> , 151, 224-232  |     | 35 |
| 1014 | Water-use efficiency and evapotranspiration of mango orchard grown in northeastern region of Brazil. <b>2009</b> , 120, 467-472   |     | 35 |
| 1013 | Variability of soil physical and hydraulic properties at the Mojave Global Change Facility, Nevada: Implications for water budget and evapotranspiration. <b>2009</b> , 73, 733-744 |     | 21 |
| 1012 | Identification of the hydraulic conductivity using a global optimization method. <b>2009</b> , 96, 504-510  |     | 27 |
| 1011 | Effect of temporal variability in soil hydraulic properties on simulated water transfer under high-frequency drip irrigation. <b>2009</b> , 96, 1547-1559                           |     | 41 |
| 1010 | A Newton root-finding algorithm for estimating the regularization parameter for solving ill-conditioned least squares problems. <b>2009</b> , 25, 025002                            |     | 25 |
| 1009 | Sensitivity Analysis of Transient-MIM HYDRUS-1D: Case Study Related to Pesticide Fate in Soils. <b>2009</b> , 8, 1064-1079  |     | 20 |
| 1008 | Subsurface Water Distribution from Furrows Described by Moment Analyses. <b>2009</b> , 135, 7-12  |     | 11 |
| 1007 | A Bayesian network approach to knowledge integration and representation of farm irrigation: 2. Model validation. <i>Water Resources Research</i> , <b>2009</b> , 45,                | 5-4 | 2  |
| 1006 | Pore-scale and continuum modeling of gas flow pattern obtained by high-resolution optical bench-scale experiments. <i>Water Resources Research</i> , <b>2009</b> , 45,              | 5-4 | 26 |
| 1005 | Simulating plant water availability in dry lands under climate change: A generic model of two soil layers. <i>Water Resources Research</i> , <b>2009</b> , 45,                      | 5-4 | 35 |
| 1004 | Airflow induced by pumping tests in unconfined aquifer with a low-permeability cap. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 23 |
| 1003 | Numerical evaluation of a set of analytical infiltration equations. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 57 |
| 1002 | An objective analysis of the dynamic nature of field capacity. <i>Water Resources Research</i> , <b>2009</b> , 45,  | 5-4 | 85 |
| 1001 | Porous Media Primer for Physicists. <b>2009</b> , 57-96   |     | 1  |
| 1000 | Hydraulic and Electrical Conductivity: Conductivity Exponents and Critical Path Analysis. <b>2009</b> , 123-167   |     |    |

|     |   |     |    |
|-----|---|-----|----|
| 999 | Evaluation of a Nonlinear Root-Water Uptake Model. <b>2009</b> , 135, 303-312   |     | 22 |
| 998 | Integrated Reservoir-Based Canal Irrigation Model. I: Description. <b>2009</b> , 135, 149-157   |     | 6  |
| 997 | Assimilation of satellite data into agrohydrological models to improve crop yield forecasts. <b>2009</b> , 30, 2523-2545  |     | 58 |
| 996 | Experimental and numerical studies of the hydromechanical behaviour of a natural unsaturated swelling soil. <b>2009</b> , 46, 393-410   |     | 26 |
| 995 | Modeling of thermally driven hydrological processes in partially saturated fractured rock. <b>2009</b> , 47,  |     | 13 |
| 994 | Parameter estimation from flowing fluid temperature logging data in unsaturated fractured rock using multiphase inverse modeling. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 2  |
| 993 | Using pedotransfer functions in vadose zone models for estimating groundwater recharge in semiarid regions. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 54 |
| 992 | Modeling of transpiration reduction in van Genuchten-Mualem type soils. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 22 |
| 991 | Near-surface soil moisture assimilation for quantifying effective soil hydraulic properties using genetic algorithms: 2. Using airborne remote sensing during SGP97 and SMEX02. <i>Water Resources Research</i> , <b>2009</b> , 45, | 5-4 | 37 |
| 990 | Predicting relative permeability from water retention: A direct approach based on fractal geometry. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 22 |
| 989 | On the incompatibility of Richards' equation and finger-like infiltration in unsaturated homogeneous porous media. <i>Water Resources Research</i> , <b>2009</b> , 45,  | 5-4 | 15 |
| 988 | On the influence of coarse fragments on soil water retention. <i>Water Resources Research</i> , <b>2009</b> , 45,   | 5-4 | 46 |
| 987 | Approximation of internodal conductivities in numerical simulation of one-dimensional infiltration, drainage, and capillary rise in unsaturated soils. <i>Water Resources Research</i> , <b>2009</b> , 45,                          | 5-4 | 20 |
| 986 | Stochastic analysis of transport in hillslopes: Travel time distribution and source zone dispersion. <i>Water Resources Research</i> , <b>2009</b> , 45,  | 5-4 | 23 |
| 985 | Explicit infiltration function for boreholes under constant head conditions. <i>Water Resources Research</i> , <b>2009</b> , 45,  | 5-4 | 14 |
| 984 | Remote Estimation of the Hydraulic Properties of a Sand Using Full-Waveform Integrated Hydrogeophysical Inversion of Time-Lapse, Off-Ground GPR Data. <b>2009</b> , 8, 743-754  |     | 70 |
| 983 | Soil Moisture Dynamics Modeling Considering the Root Compensation Mechanism for Water Uptake by Plants. <b>2009</b> , 14, 913-922   |     | 44 |
| 982 | Prediction of Hydraulic Conductivity as Related to Pore Size Distribution in Unsaturated Soils. <b>2009</b> , 174, 508-515  |     | 25 |

|     |  |     |
|-----|--|-----|
| 981 | Predicting the Solute Breakthrough Curve From Soil Hydraulic Properties. <b>2009</b> , 174, 165-173  | 11  |
| 980 | Water and Vapor Movement with Condensation and Evaporation in a Sandy Column. <b>2009</b> , 73, 707-717  | 87  |
| 979 | Modeling Salt Accumulation with Subsurface Drip Irrigation Using HYDRUS-2D. <b>2009</b> , 73, 233-240  | 50  |
| 978 | Hydraulic Conductivity as Influenced by Stoniness in Degraded Drylands of Chile. <b>2009</b> , 73, 471-484   | 44  |
| 977 | Soakage testing: modelling the effect of antecedent hydrology. <b>2009</b> , 162, 337-346  | 2   |
| 976 | Spatial Variability of Hydraulic Properties and Sediment Characteristics in a Deep Alluvial Unsaturated Zone. <b>2009</b> , 8, 276-289                     | 40  |
| 975 | Development of Pedotransfer Functions for Estimation of Soil Hydraulic Parameters using Support Vector Machines. <b>2009</b> , 73, 1443-1452               | 103 |
| 974 | Coalbed Methane Production: Why Coal Permeability Matters. <b>2010</b> ,   | 0   |
| 973 | Effect of Impermeable Boundaries on the Propagation of Rayleigh Waves in an Unsaturated Poroelastic Half-Space. <b>2010</b> , 26, 501-511                  | 3   |
| 972 | Opportunities for improving irrigation efficiency with quantitative models, soil water sensors and wireless technology. <b>2010</b> , 148, 1-16            | 52  |
| 971 | Modeling the Production, Decomposition, and Transport of Dissolved Organic Carbon in Boreal Soils. <b>2010</b> , 175, 223-232                              | 19  |
| 970 | Hydrologic trajectories in transient ground-penetrating-radar reflection data. <b>2010</b> , 75, WA211-WA219   | 27  |
| 969 | Improving Hydraulic Conductivity Estimates from Minidisk Infiltrometer Measurements for Soils with Wide Pore-Size Distributions. <b>2010</b> , 74, 804-811 | 47  |
| 968 | Estimation of the Dual-Permeability Model Parameters using Tension Disk Infiltrometer and Guelph Permeameter. <b>2010</b> , 9, 213-225                     | 38  |
| 967 | Analysis of the Agreement of Soil Hydraulic Properties Obtained from Multistep-Outflow and Evaporation Methods. <b>2010</b> , 9, 1080-1091                 | 42  |
| 966 | A Coupled MPM-FDM Analysis Method for Multi-Phase Elasto-Plastic Soils. <b>2010</b> , 50, 515-532  | 24  |
| 965 | Application of the Groenevelt - Grant soil water retention model to predict the hydraulic conductivity. <b>2010</b> , 48, 447                              | 13  |
| 964 | Extension of Kozeny-Carman Model for Estimating Unsaturated Hydraulic Conductivity. <b>2010</b> , 74, 1996-2009  | 2   |

|     |   |    |
|-----|---|----|
| 963 | Quantitative Pore-Scale Investigations of Multiphase Bio/Geo/Chemical Processes. <b>2010</b> , 9, 573-575   | 1  |
| 962 | IDENTIFICATION OF THE CHARACTERISTIC SHAPE OF TWO-PHASE SATURATION FUNCTIONS FOR FRACTURED ROCK THROUGH COMPRESSED AIR ENERGY STORAGE FIELD TEST AND 3D NUMERICAL ANALYSES. <b>2010</b> , 66, 645-659 |    |
| 961 | LABOLATORY EXPERIMENT AND NUMERICAL SIMULATION FOR SOLUTE TRANSPORT IN HETEROGENEOUS-UNSATURATED VERTICAL INFILTRATION FLOW FIELD. <b>2010</b> , 66, 248-257  |    |
| 960 | ESTIMATION OF EFFECTS ON NAPL RESIDUAL SATURATION FOR AIRWATER-NAPL PHASE FLOW IN POROUS MEDIA. <b>2010</b> , 66, 418-429   | 1  |
| 959 | Soil moisture dynamics in levees during flood events - variably saturated approach. <b>2010</b> , 58,   | 6  |
| 958 | Water regime of urbanized soils and grounds in the aeration zone in Rostov Velikii Town: Analysis of experimental data. <b>2010</b> , 37, 611-622   | 2  |
| 957 | Neuro-Drip: estimation of subsurface wetting patterns for drip irrigation using neural networks. <b>2010</b> , 28, 535-544  | 40 |
| 956 | Motional modes of dilatational waves in elastic porous media containing two immiscible fluids. <b>2010</b> , 33, 304-311  | 20 |
| 955 | An adaptive time discretization of the classical and the dual porosity model of Richards's equation. <b>2010</b> , 233, 3167-3177   | 14 |
| 954 | A physically based FVM watershed model fully coupling surface and subsurface water flows. <b>2010</b> , 8, 145-156  | 6  |
| 953 | A simple numerical procedure for timely prediction of precipitation-induced landslides in unsaturated pyroclastic soils. <b>2010</b> , 7, 273-289   | 65 |
| 952 | Tiefengestaffeltes Wasserprobennahmesystem zur spezifischen Beprobung der ungesättigten Zone, dem Kapillarsaum und der gesättigten Zone. <b>2010</b> , 15, 19-32                                      | 1  |
| 951 | Saturated hydraulic conductivity from field measurements compared to pedotransfer functions in a heterogeneous arable landscape. <b>2010</b> , 21, 923-930  | 3  |
| 950 | Numerical modeling of two-phase hysteresis combined with an interface condition for heterogeneous porous media. <b>2010</b> , 14, 273-287   | 11 |
| 949 | Finite Element-Based Characterization of Pore-Scale Geometry and Its Impact on Fluid Flow. <b>2010</b> , 81, 241-259  | 22 |
| 948 | Three-Phase Flow Modelling Using Pore-Scale Capillary Pressures and Relative Permeabilities for Mixed-Wet Media at the Continuum-Scale. <b>2010</b> , 81, 423-442                                     | 15 |
| 947 | An Alternative Rotational Delivery Schedule for Improved Performance of Reservoir-based Canal Irrigation System. <b>2010</b> , 24, 3679-3700  | 10 |
| 946 | Laboratory Investigation Into Factors Affecting Performance of Capillary Barrier System in Unsaturated Soil. <b>2010</b> , 206, 295-306   | 12 |

|     |  |     |
|-----|--|-----|
| 945 | Dynamics of soil water content in the rhizosphere. <b>2010</b> , 332, 163-176  | 240 |
| 944 | Refining and unifying the upper limits of the least limiting water range using soil and plant properties. <b>2010</b> , 334, 221-234                                       | 15  |
| 943 | Soil water availability for plants as quantified by conventional available water, least limiting water range and integral water capacity. <b>2010</b> , 335, 229-244       | 54  |
| 942 | Liquid and gas permeabilities of unsaturated municipal solid waste under compression. <b>2010</b> , 118, 27-42   | 78  |
| 941 | Hydraulic properties of a model dike from coupled Bayesian and multi-criteria hydrogeophysical inversion. <b>2010</b> , 380, 62-73   | 79  |
| 940 | Water retention of repellent and subcritical repellent soils: New insights from model and experimental investigations. <b>2010</b> , 380, 104-111                          | 52  |
| 939 | Water flow in Sphagnum hummocks: Mesocosm measurements and modelling. <b>2010</b> , 381, 333-340   | 44  |
| 938 | New linearized two-parameter infiltration equation for direct determination of conductivity and sorptivity. <b>2010</b> , 384, 1-13  | 38  |
| 937 | Estimating seepage intensities from groundwater level time series by inverse modelling: A sensitivity analysis on wet meadow scenarios. <b>2010</b> , 385, 132-142         | 12  |
| 936 | How efficient are one-dimensional models to reproduce the hydrodynamic behavior of structured soils subjected to multi-step outflow experiments?. <b>2010</b> , 393, 37-52 | 28  |
| 935 | Non-equilibrium in soil hydraulic modelling. <b>2010</b> , 393, 20-28  | 38  |
| 934 | Rainfall-runoff modelling of a rocky catchment with limited data availability: Defining prediction limits. <b>2010</b> , 387, 128-140                                      | 10  |
| 933 | Numerically predicting seepage gradient forces and erosion: Sensitivity to soil hydraulic properties. <b>2010</b> , 389, 354-362   | 26  |
| 932 | A finite-element algorithm for modeling variably saturated flows. <b>2010</b> , 394, 315-323   | 17  |
| 931 | An elasto-plastic three phase model for partially saturated soil for the finite element simulation of compressed air support in tunnelling. <b>2010</b> , 34, 605-625      | 29  |
| 930 | A continuous-discontinuous approach to simulate physical degradation processes in porous media. <b>2010</b> , 84, 1009-1037  | 12  |
| 929 | Process-oriented numerical simulation of shield-supported tunnelling in soft soils /. <b>2010</b> , 3, 268-282   | 25  |
| 928 | Long-term effects of revegetation on soil hydrological processes in vegetation-stabilized desert ecosystems. <b>2010</b> , 24, 87-95                                       | 18  |

|     |   |     |
|-----|---|-----|
| 927 | Modelling investigation of water partitioning at a semiarid ponderosa pine hillslope. <b>2010</b> , 24, 1095-1105   | 10  |
| 926 | Impact of land use on the hydraulic properties of the topsoil in a small French catchment. <b>2010</b> , 24, n/a-n/a  | 39  |
| 925 | Modelling rapid flow response of a tile-drained field site using a 2D physically based model: assessment of "quifinal" model setups. <b>2010</b> , 24, 1595-1609                              | 55  |
| 924 | Estimation of soil hydraulic properties and their uncertainty: comparison between laboratory and field experiment. <b>2010</b> , 24, 3426-3435  | 31  |
| 923 | Modelling discharge from a coastal watershed in southeast Sweden using an integrated framework. <b>2010</b> , 24, 3837-3851   | 3   |
| 922 | Gypsies in the palace: experimentalist's view on the use of 3-D physics-based simulation of hillslope hydrological response. <b>2010</b> , 24, 3878-3893                                      | 27  |
| 921 | The quixotic search for a comprehensive understanding of hydrologic response at the surface: Horton, Dunne, Dunton, and the role of concept-development simulation. <b>2010</b> , 24, n/a-n/a | 15  |
| 920 | Leaching composted lignocellulosic wastes to prepare container media: feasibility and environmental concerns. <b>2010</b> , 91, 1747-55   | 25  |
| 919 | Soil moisture assessment by means of compressional and shear wave velocities: Theoretical analysis and experimental setup. <b>2010</b> , 43, 344-352  | 8   |
| 918 | Numerical parametric investigation of infiltration in one-dimensional sand-geotextile columns. <b>2010</b> , 28, 460-474  | 16  |
| 917 | A whole range hygric material model: Modelling liquid and vapour transport properties in porous media. <b>2010</b> , 53, 286-296  | 42  |
| 916 | Analysis of thermo-hydro-mechanical process in the engineered barrier system of a high-level waste repository. <b>2010</b> , 240, 1688-1698   | 36  |
| 915 | Modeling of leachate generation from MSW landfills by a 2-dimensional 2-domain approach. <b>2010</b> , 30, 2084-95  | 44  |
| 914 | On the use of strong discontinuity formulations for the modeling of preferential moisture uptake in fractured porous media. <b>2010</b> , 199, 2828-2839                                      | 11  |
| 913 | Comparison of bioclogging effects in saturated porous media within one- and two-dimensional flow systems. <b>2010</b> , 36, 176-196   | 110 |
| 912 | Comparison of testing techniques and models for establishing the SWCC of riverbank soils. <b>2010</b> , 110, 1-10   | 71  |
| 911 | Soil moisture depletion under simulated drought in the Amazon: impacts on deep root uptake. <b>2010</b> , 187, 592-607  | 145 |
| 910 | Streaming potential dependence on water-content in Fontainebleau sand. <b>2010</b> , 182, 1248-1266   | 65  |

|     |  |    |
|-----|--|----|
| 909 | Reducing local hydrology from high-precision gravity measurements: a lysimeter-based approach. <b>2010</b> , 183, 178-187  | 42 |
| 908 | Deformation and Shrinkage Effects on the Soil Water Release Characteristic. <b>2010</b> , 74, 1104-1112  | 41 |
| 907 | Theory for Source-Responsive and Free-Surface Film Modeling of Unsaturated Flow. <b>2010</b> , 9, 295-306  | 81 |
| 906 | Estimating Soil Hydraulic Properties from Infrared Measurements of Soil Surface Temperatures and TDR Data. <b>2010</b> , 9, 910-924  | 31 |
| 905 | Estimating Relative Hydraulic Conductivity from the Water Release Characteristic of a Shrinking Clay Soil. <b>2010</b> , 74, 1113-1118   | 8  |
| 904 | Potential Impact of a Seepage Face on Solute Transport to a Pumping Well. <b>2010</b> , 9, 686-696   | 9  |
| 903 | Effective Hydraulic Conductivity of Unsaturated Isotropic Soils with Multidimensional Heterogeneity. <b>2010</b> , 74, 734-743   | 3  |
| 902 | Performance of Slow-Release Formulations of Alachlor. <b>2010</b> , 74, 898-905  | 21 |
| 901 | Unsaturated Hydraulic Conductivity Estimation of a Forest Soil Assuming a Stochastic-Convective Process. <b>2010</b> , 74, 292-300   | 1  |
| 900 | Hydraulic Conductivity Function from Water Flow Similarity in Idealized- and Natural-Structure Pores. <b>2010</b> , 74, 787-796  | 8  |
| 899 | Uncertainty in the determination of soil hydraulic parameters and its influence on the performance of two hydrological models of different complexity. <b>2010</b> , 14, 251-270 | 74 |
| 898 | The Similarity Hypothesis and New Analytical Support on the Estimation of Horizontal Infiltration into Sand. <b>2010</b> , 2010, 1-7   | 1  |
| 897 | Numerical study of the evaporation process and parameter estimation analysis of an evaporation experiment. <b>2010</b> , 14, 765-781   | 11 |
| 896 | Buffer Index Effects on Hydraulic Conductivity Measurements Using Numerical Simulations of Double-Ring Infiltration. <b>2010</b> , 74, 1526-1536                                 | 21 |
| 895 | Sand-Filled Drainage Ditches for Erosion Control: Effects on Infiltration Efficiency. <b>2010</b> , 74, 213-220  | 10 |
| 894 | The principle of 'maximum energy dissipation': a novel thermodynamic perspective on rapid water flow in connected soil structures. <b>2010</b> , 365, 1377-86                    | 70 |
| 893 | Liquid-phase continuity and solute concentration dynamics during evaporation from porous media: pore-scale processes near vaporization surface. <b>2010</b> , 81, 046308         | 54 |
| 892 | Conductivité hydraulique non saturée de l'argile de Mers El Kbir (Algérie). <b>2010</b> , 14, 1297-1315  |    |

|     |  |     |     |
|-----|--|-----|-----|
| 891 | Hydro-mechanical modelling of geological CO <sub>2</sub> storage and the study of possible caprock fracture mechanisms. <b>2010</b> , 4, 110-117   |     | 7   |
| 890 | Theoretical study of the impact of tide-induced airflow on hydraulic head in air-confined coastal aquifers. <b>2010</b> , 55, 435-445  |     | 16  |
| 889 | Adjusting soil infiltration coefficients for groundwater level. <b>2010</b> , 163, 239-245   |     | 0   |
| 888 | Numerical Stability Analysis of the Multi-Layered High-Filled Embankment Slope Subjected to Rainfall Infiltration. <b>2010</b> ,   |     | 1   |
| 887 | Inverse modeling of vadose zone flow processes using squared insensitivity loss function. <b>2010</b> , 58,  |     | 2   |
| 886 | Soil: A Media for Plant Growth. <b>2010</b> , 107-218  |     |     |
| 885 | Using Pedotransfer Functions to Estimate the van Genuchten-Mualem Soil Hydraulic Properties: A Review. <b>2010</b> , 9, 795-820  |     | 267 |
| 884 | A simplified method to estimate the soil-water characteristic curve. <b>2010</b> , 47, 1382-1400   |     | 65  |
| 883 | Measurement and simulation of the effect of compaction on the pore structure and saturated hydraulic conductivity of grassland and arable soil. <i>Water Resources Research</i> , <b>2010</b> , 46,                      | 5-4 | 49  |
| 882 | Modeling gas-water processes in fractures with fracture flow properties obtained through upscaling. <i>Water Resources Research</i> , <b>2010</b> , 46,  | 5-4 | 11  |
| 881 | Measuring the effect of local water storage changes on in situ gravity observations: Case study of the Geodetic Observatory Wettzell, Germany. <i>Water Resources Research</i> , <b>2010</b> , 46,                       | 5-4 | 46  |
| 880 | Excluded-volume expansion of Archie's law for gas and solute diffusivities and electrical and thermal conductivities in variably saturated porous media. <i>Water Resources Research</i> , <b>2010</b> , 46,             | 5-4 | 54  |
| 879 | Simulating field-scale moisture flow using a combined power-averaging and tensorial connectivity-tortuosity approach. <i>Water Resources Research</i> , <b>2010</b> , 46,  | 5-4 | 5   |
| 878 | Improved forward and inverse analyses of saturated-unsaturated flow toward a well in a compressible unconfined aquifer. <i>Water Resources Research</i> , <b>2010</b> , 46,  | 5-4 | 42  |
| 877 | Comment on "A simple model for describing hydraulic conductivity in unsaturated porous media accounting for film and capillary flow" by A. Peters and W. Durner. <i>Water Resources Research</i> , <b>2010</b> , 46,     | 5-4 | 9   |
| 876 | Three-dimensional finite difference saturated-unsaturated flow modeling with nonorthogonal grids using a coordinate transformation method. <i>Water Resources Research</i> , <b>2010</b> , 46,                           | 5-4 | 23  |
| 875 | A new capillary and thin film flow model for predicting the hydraulic conductivity of unsaturated porous media. <i>Water Resources Research</i> , <b>2010</b> , 46,  | 5-4 | 131 |
| 874 | Reply to comment by N. Shokri and D. Or on "A simple model for describing hydraulic conductivity in unsaturated porous media accounting for film and capillary flow" <i>Water Resources Research</i> , <b>2010</b> , 46, | 5-4 | 4   |

|     |  |         |
|-----|--|---------|
| 873 | Comportement hydrique d'une argile non satur e. <b>2010</b> , 14, 329-360  | 1       |
| 872 | Soil Water Characteristic Curves of Compacted Clay Subjected to Multiple Wetting and Drying Cycles. <b>2010</b> ,  | 4       |
| 871 | Hydraulic properties of fen peat soils in Poland. <b>2010</b> , 154, 188-195   | 56      |
| 870 | Effect of the settlement of sediments on water infiltration in two urban infiltration basins. <b>2010</b> , 156, 316-325   | 69      |
| 869 | Water retention curve of snow with different grain sizes. <b>2010</b> , 64, 87-93  | 57      |
| 868 | Numerical modeling of liquid water movement through layered snow based on new measurements of the water retention curve. <b>2010</b> , 64, 94-103                                    | 69      |
| 867 | Modeling water flow and bacterial transport in undisturbed lysimeters under irrigations of dairy shed effluent and water using HYDRUS-1D. <b>2010</b> , 44, 1050-61                  | 52      |
| 866 | An upscaling approach to simulate unsaturated flow in horizontally heterogeneous soils at field scale under flood irrigation. <b>2010</b> , 97, 2020-2028                            |         |
| 865 | Developing a reliable strategy to infer the effective soil hydraulic properties from field evaporation experiments for agro-hydrological models. <b>2010</b> , 97, 399-409           | 11      |
| 864 | Sensitivity of groundwater recharge under irrigated agriculture to changes in climate, CO2 concentrations and canopy structure. <b>2010</b> , 97, 1039-1050                          | 35      |
| 863 | SWAP, CropSyst and MACRO comparison in two contrasting soils cropped with maize in Northern Italy. <b>2010</b> , 97, 1051-1062   | 57      |
| 862 | A universal agro-hydrological model for water and nitrogen cycles in the soil drop system SMCR_N: Critical update and further validation. <b>2010</b> , 97, 1411-1422                | 6       |
| 861 | Effect of plastic mulch on water flow and herbicide transport in soil cultivated with pineapple crop: A modeling study. <b>2010</b> , 97, 1637-1645                                  | 15      |
| 860 | Simulation of bromide and nitrate leaching under heavy rainfall and high-intensity irrigation rates in North China Plain. <b>2010</b> , 97, 1646-1654                                | 100     |
| 859 | Development and credibility assessment of a metamodel relating water table depth to agricultural production. <b>2010</b> , 97, 1731-1741   | 6       |
| 858 | An explicit hydrological algorithm for basic flow and transport equations and its application in agro-hydrological models for water and nitrogen dynamics. <b>2010</b> , 98, 114-123 | 2       |
| 857 | Development and testing of a physically based, three-dimensional model of surface and subsurface hydrology. <b>2010</b> , 33, 106-122  | 46      |
| 856 | Improved extraction of hydrologic information from geophysical data through coupled hydrogeophysical inversion. <i>Water Resources Research</i> , <b>2010</b> , 46,                  | 5-4 163 |

|     |  |     |     |
|-----|--|-----|-----|
| 855 | Modelling of root ABA synthesis, stomatal conductance, transpiration and potato production under water saving irrigation regimes. <b>2010</b> , 98, 425-439                          |     | 24  |
| 854 | Evaluation of the effectiveness of a cover with capillary barrier effect to control percolation into a waste disposal facility. <b>2011</b> , 48, 996-1009                           |     | 22  |
| 853 | Air and water flows in a vertical sand column. <i>Water Resources Research</i> , <b>2011</b> , 47,   | 5-4 | 17  |
| 852 | Multiresponse multilayer vadose zone model calibration using Markov chain Monte Carlo simulation and field water retention data. <i>Water Resources Research</i> , <b>2011</b> , 47, | 5-4 | 73  |
| 851 | A revisit of drawdown behavior during pumping in unconfined aquifers. <i>Water Resources Research</i> , <b>2011</b> , 47,  | 5-4 | 32  |
| 850 | Inverse estimation of parameters for multidomain flow models in soil columns with different macropore densities. <i>Water Resources Research</i> , <b>2011</b> , 47, 2010WR009451    | 5-4 | 57  |
| 849 | On the propagation of a coupled saturation and pressure front. <i>Water Resources Research</i> , <b>2011</b> , 47,   | 5-4 | 12  |
| 848 | Saturated-unsaturated flow to a well with storage in a compressible unconfined aquifer. <i>Water Resources Research</i> , <b>2011</b> , 47,  | 5-4 | 31  |
| 847 | Numerical analysis of air-water-heat flow in unsaturated soil: Is it necessary to consider airflow in land surface models?. <b>2011</b> , 116,                                       |     | 46  |
| 846 | Local evaluation of the Interaction between Soil Biosphere Atmosphere soil multilayer diffusion scheme using four pedotransfer functions. <b>2011</b> , 116,                         |     | 104 |
| 845 | Estimating vadose zone hydraulic properties using ground penetrating radar: The impact of prior information. <i>Water Resources Research</i> , <b>2011</b> , 47,                     | 5-4 | 18  |
| 844 | Extended multistep outflow method for the accurate determination of soil hydraulic properties near water saturation. <i>Water Resources Research</i> , <b>2011</b> , 47,             | 5-4 | 53  |
| 843 | A simulation analysis of the advective effect on evaporation using a two-phase heat and mass flow model. <i>Water Resources Research</i> , <b>2011</b> , 47,                         | 5-4 | 56  |
| 842 | A new model for predicting relative nonwetting phase permeability from soil water retention curves. <i>Water Resources Research</i> , <b>2011</b> , 47,                              | 5-4 | 21  |
| 841 | Investigation of gridding effects for numerical simulations of CO2 geologic sequestration. <b>2011</b> , 5, 975-985  |     | 31  |
| 840 | Soil Water Retention and Relative Permeability for Conditions from Oven-Dry to Full Saturation. <b>2011</b> , 10, 1299-1308  |     | 50  |
| 839 | Water Movement and Solute Transport in Unsaturated Porous Media. <b>2011</b> , 77-119  |     | 2   |
| 838 | Estimation of soil suction from the soil-water characteristic curve. <b>2011</b> , 48, 186-198   |     | 64  |

|     |   |    |
|-----|---|----|
| 837 | Root Zone Moisture Routing and Water Demand Calculations in the Context of Integrated Hydrology. <b>2011</b> , 137, 359-366   | 7  |
| 836 | A Statistical Model for the Relative Hydraulic Conductivity of Water Phase in Unsaturated Soils. <b>2011</b> , 02, 484-492  | 1  |
| 835 | Combined Brooks-Corey/Burdine and van Genuchten/Mualem Closed-Form Model for Improving Prediction of Unsaturated Conductivity. <b>2011</b> , 137, 223-233   | 20 |
| 834 | Hydraulic Properties of MSW. <b>2011</b> ,  | 7  |
| 833 | Solving the nonstationary Richards equation with adaptive hp-FEM. <b>2011</b> , 34, 1062-1081   | 21 |
| 832 | Consistent parameter constraints for soil hydraulic functions. <b>2011</b> , 34, 1352-1365  | 36 |
| 831 | Distributed agro-hydrological modeling with SWAP to improve water and salt management of the Voshmgir Irrigation and Drainage Network in Northern Iran. <b>2011</b> , 98, 1062-1070                           | 44 |
| 830 | A rigorous approach of determining FAO56 dual crop coefficient using soil sensor measurements and inverse modeling techniques. <b>2011</b> , 98, 1081-1090  | 13 |
| 829 | Upward-looking ground-penetrating radar for measuring wet-snow properties. <b>2011</b> , 69, 129-138  | 46 |
| 828 | Analysis of physical quality of soil using the water retention curve: Validity of the S-index. <b>2011</b> , 343, 295-301   | 20 |
| 827 | Applicability of Richards' equation models to predict deep percolation under surface irrigation. <b>2011</b> , 160, 569-578   | 26 |
| 826 | A study on the air permeability as affected by compression of three French soils. <b>2011</b> , 162, 171-181  | 29 |
| 825 | Integral energy of conventional available water, least limiting water range and integral water capacity for better characterization of water availability and soil physical quality. <b>2011</b> , 166, 34-42 | 36 |
| 824 | Evaluation method dependency of measured saturated hydraulic conductivity. <b>2011</b> , 165, 60-68   | 67 |
| 823 | A physically oriented approach to analysis and mapping of terroirs. <b>2011</b> , 167-168, 103-117  | 42 |
| 822 | Soil water characteristic curve measurement without bulk density changes and its implications in the estimation of soil hydraulic properties. <b>2011</b> , 167-168, 1-8                                      | 20 |
| 821 | Determination of the permeability of the Callovo-Oxfordian clay at the metre to decametre scale. <b>2011</b> , 36, 1669-1678  | 17 |
| 820 | Full scale 3D-modelling of the coupled gas migration and heat dissipation in a planned repository for radioactive waste in the Callovo-Oxfordian clay. <b>2011</b> , 36, 1754-1769                            | 8  |

|     |  |     |    |
|-----|--|-----|----|
| 819 | Evaporation from soils under thermal boundary conditions: Experimental and modeling investigation to compare equilibrium- and nonequilibrium-based approaches. <i>Water Resources Research</i> , <b>2011</b> , 47, | 5-4 | 90 |
| 818 | Numerical evaluation of subsurface soil water evaporation derived from sensible heat balance. <i>Water Resources Research</i> , <b>2011</b> , 47,  | 5-4 | 32 |
| 817 | Joint Measurement Setup for Determining Spectral Induced Polarization and Soil Hydraulic Properties. <b>2011</b> , 10, 716-726   |     | 34 |
| 816 | Potential and limitations of using soil mapping information to understand landscape hydrology. <b>2011</b> , 15, 3895-3933   |     | 21 |
| 815 | One-Dimensional Flow Infiltration Through a Compacted Fine Grained Soil. <b>2011</b> , 51, 287-295   |     | 1  |
| 814 | Determination of hydraulic properties of a tropical soil of Hawaii using column experiments and inverse modeling. <b>2011</b> , 35, 1229-1239  |     | 6  |
| 813 | Determining the Effective Hydraulic Properties of a Highly Heterogeneous Soil Horizon. <b>2011</b> , 10, 450-458   |     | 7  |
| 812 | Effect of Spatial and Temporal Variability of Antecedent Moisture Content on Model-Generated Runoff from an Arid Watershed. <b>2011</b> ,  |     | 0  |
| 811 | Alternative Analytical Expressions for the General van Genuchten-Mualem and van Genuchten-Burdine Hydraulic Conductivity Models. <b>2011</b> , 10, 618-623   |     | 9  |
| 810 | Direct Measurement of Unsaturated Conductivity including Hydraulic Nonequilibrium and Hysteresis. <b>2011</b> , 10, 654-661  |     | 23 |
| 809 | Modelagem da curva de retenção de água de Latossolos utilizando a Equação Duplo Van Genuchten. <b>2011</b> , 35, 77-86   |     | 26 |
| 808 | Evapotranspiração e coeficiente de cultura do cafeeiro irrigado por pivô central. <b>2011</b> , 15, 1215-1221  |     | 3  |
| 807 | Scaling to generalize a single solution of Richards' equation for soil water redistribution. <b>2011</b> , 68, 582-591   |     | 12 |
| 806 | Relative hydraulic conductivity and effective saturation from Earth's field nuclear magnetic resonance – a method for assessing the vadose zone. <b>2011</b> , 9, 155-167  |     | 19 |
| 805 | Índice S para avaliação da qualidade física de solos. <b>2011</b> , 35, 1959-1965  |     | 1  |
| 804 | Dinâmica da umidade de um solo da Caatinga em função de sua condutividade térmica. <b>2011</b> , 15, 950-958   |     | 1  |
| 803 | Analysis of the impact of climate change on groundwater related hydrological fluxes: a multi-model approach including different downscaling methods. <b>2011</b> , 15, 21-38                                       |     | 88 |
| 802 | Modeling liquid distribution in soil after pocket injection. <b>2011</b> , 40, 302-11  |     | 1  |

- 801 What can we learn from long-term groundwater data to improve climate change impact studies?. **2011**, 15, 3861-3875 27
- 800 Use of Physically Based Models to Evaluate USDA Soil Moisture Classes. **2011**, 75, 181-191 11
- 799 Modeling Nitrous Oxide Emissions from Potato-Cropped Soil. **2011**, 10, 184-194 7
- 798 Flow Processes in the Dry Regime: The Effect on Capillary Barrier Performance. **2011**, 10, 1173-1184 5
- 797 Impacts of Competitive Sorption Processes on Remediation Goals for Contaminated Soils. **2011**, 10, 1120-1129
- 796 Groundwater Recharge through Vertisols: Irrigated Cropland vs. Natural Land, Israel. **2011**, 10, 662-674 49
- 795 A novel explicit approach to model bromide and pesticide transport in connected soil structures. **2011**, 15, 2127-2144 35
- 794 Fine Tuning of Geotechnical Models for the Simulation of the Effects of the Precipitations to the Soil.
- 793 Modeling water flow in an unsaturated compacted soil. **2007**,
- 792 References. **2007**, 159-166
- 791 Encyclopedia of Soil Science. **2008**, 531-538
- 790 FIELD MONITORING OF RAINFALL INFILTRATION IN MODEL EMBANKMENTS COMPOSED OF VOLCANIC SANDY SOILS. **2008**, 64, 519-531
- 789 Data about Rainfall-Induced Landslides in Pyroclastic Soils: The Cases of Camaldoli Hill, Naples and of Nocera Inferiore.
- 788 WATERTIGHT EMBANKMENT USING L-SHAPED GEOSYNTHETIC DRAIN. **2008**, 23, 147-154
- 787 WATERTIGHT EMBANKMENT USING L-SHAPED GEOSYNTHETIC DRAIN. **2008**, 23, 139-146
- 786 Model-based Optimal Design of Land Use Arrangement for Environmentally Sound Watershed Management. **2008**, 13, 29-33
- 785 Regional Analysis of Rainfall-Induced Landslides - The Test Case of Nocera Inferiore (March, 2005).
- 784 Regional Analysis of Rainfall-Induced Landslides. The Case of Camaldoli Hill, Naples: Test Case Nr.1- October 2004; Test Case Nr.2- September, 2005.

783 Influence of hysteresis in modeling of LNAPL migration through non-homogeneous binary porous media. **2008**,

782 Hydraulic conductivity and index of soil physical quality of a forest haplic arenosol. **2009**, 64,

781 Modeling of Two-Phase Flow and Catalytic Reaction Kinetics for DMFCs. **2009**, 297-316

780 Effects of the Climatic Conditions on the Behaviour of a Slow Landslide in Clay.

779 Numerical Analysis of Rainfall-Induced Landslides. The Case of Camaldoli Hill, Naples: Test Case Nr.1 - October, 2004; Test Case Nr.2 - September, 2005.

778 Coupled stress-flow simulations for the river levee considering overflow. **2009**, 4, 1-9

7

777 Reuse of Date Palm by-Products for Efficient Use of Nitrogen Fertilizer. **2009**, 4, 80-92

3

776 Climate sensitivity of the soil water regime on pseudomycelial chernozem soils. **2009**, 58, 197-214

1

775 Infiltration Process in Rainfed Rice Field Soil of Ghanaian Inland Valley. **2010**, 15, 17-20

774 Determination and Compare Analysis for Soil Water Characteristic Curve Model in Planting Soil in Saline Region of Tianjin. **2010**, 12, 336-341

773 Mapping soil-water profile utilizing non-linear neural network based model. **2010**, 887-893

772 AN ANALYSIS OF THE EFFECT OF HYDRAULIC PARAMETERS ON RADIONUCLIDE MIGRATION IN AN UNSATURATED ZONE. **2010**, 42, 562-567

2

771 Inverse Modeling of Mass-conservative Numerical Model for Variably Saturated Seepage Flow. **2011**, 17, 11-16

770 Non-Uniform Flow Field and Numerical Simulations of Unwatchable Groundwater Flow. **2011**, 25, 36-43

769 A Flexible Wall Permeameter for the Determination of the Water Permeability Function in Unsaturated Soils. **2011**, 34, 103595

768 Pesticide Leaching Models in a Brazilian Agricultural Field Scenario. **2011**, 266-295

767 Modelling irrigated maize with a combination of coupled-model simulation and ensemble forecasting, in the west of China.

766 In Situ Air Sparging and Thermally-Enhanced Venting in Groundwater Remediation. **2011**, 430-474

- 765 Rainwater Infiltration Characteristics in the Unsaturated Soil : Comparison of Finite Element Model with Experimental Results. **2011**, 16, 27-33
- 764 Movement of Water in the Soil Root Zone During Transpiration. **2012**, 85-126
- 763 Investigation of water movement through snowcover based on cold laboratory experiments. **2012**, 42, 89-99
- 762 Theory. **2012**, 9-59
- 761 Evaluating models for predicting hydraulic characteristics of layered soils. 1
- 760 Simulation of saturated and unsaturated flow in karst systems at catchment scale using a double continuum approach.
- 759 Hysteresis of the Suction Stress in Unsaturated Weathered Mudstone Soils. **2012**, 28, 55-66 2
- 758 Effect on Matric Suction in Soils due to Hysteretic Soil Water Characteristic Curves. **2012**, 28, 91-100 4
- 757 Estimation of overland flow metrics at semiarid condition: Patagonian Monte.
- 756 Uniformity Assessment of Soil Moisture Redistribution for Drip Irrigation. **2012**, 54, 19-28 1
- 755 Experimental Study on the Hysteresis of Suction Stress in Unsaturated Sand. **2012**, 22, 145-155 1
- 754 Linking soil moisture balance and source-responsive models to estimate diffuse and preferential components of groundwater recharge.
- 753 Identifying a soil hydraulic parameterisation from on-ground GPR time lapse measurements of a pumping experiment. 1
- 752 Numerical simulation for variations of water saturation in bentonite buffer under the effect of a rock joint using the TOUGH2 code. **2012**, 14, 575-593
- 751 A talaj olajvisszatartóképességének becslési lehetőségei. **2012**, 61, 399-416
- 750 Transient thermal modeling of permafrost conditions in Southern Norway.
- 749 Two-Phase Mass and Heat Flow Model. **2013**, 61-97
- 748 The Impact of Climatic Changes on the Behaviour of Active Landslides in Clay. **2013**, 59-67 1

- 747 NUMERICAL STUDY ON THE EFFECTS OF WATER LEVEL REPRESSION IN EMBANKMENT WITH L-SHAPED DRAIN. **2013**, 28, 23-30
- 746 AN EXPERIMENTAL STUDY ON PREVENTION OF PORE-AIR PRESSURE GENERATION ON WATER SEEPAGE IN RIVER DYKE BY USING BREATHABLE - WATERPROOF GEOTEXTILE. **2013**, 28, 17-22 1
- 745 Simulation of Land Management Effects on Soil N<sub>2</sub>O Emissions using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. **2013**, 1-22 1
- 744 A method for estimating the source of chemical pollutants in soil gas by using results of the soil gas surveys. **2013**, 55, 135-153
- 743 Research on Identifying Method of Freezing-Thawing Soil Hydraulic Properties. **2013**, 359-366
- 742 Caractérisation hydrodynamique des sols de la haute vallée de l'oued Sbaou (Algérie) : étude expérimentale, numérique et analytique. **2013**, 261-283 1
- 741 Simulating Infiltration Processes into Fractured and Swelling Soils as Triggering Factors of Landslides. **2013**, 135-141 1
- 740 Permeability. 279-332
- 739 A Study on Pore Water Pressure Behavior of Fill Dam with Water Level Raising using Centrifugal Model Tests. **2013**, 55, 87-95 1
- 738 References. 206-214
- 737 Evaluation of Hydraulic Conductivity Function in Unsaturated Soils using an Inverse Analysis. **2013**, 55, 1-11
- 736 Flow in Variably Saturated Porous Media. **2014**, 445-536 1
- 735 Stability Analysis of the Unsaturated Infinite Slope Considering Suction Stress under Steady Infiltration Condition. **2013**, 29, 5-15 1
- 734 Prehistoric Settlement Patterns and Optimal Maize Field Location in the Mt. Trumbull Region NW Arizona USA. **2014**, 53-101
- 733 Open image in new windowModelling the Influence of Tree Removal on Embankment Slope Hydrology. **2014**, 241-246 1
- 732 Properties Based on Tortuosity. **2014**, 333-408
- 731 Two soil hydrology formulations of ORCHIDEE (version Trunk.rev1311) tested for the Amazon basin.
- 730 Porous Media Primer for Physicists. **2014**, 59-101

729 Water Flow and Solute Transport Processes in the Unsaturated Zone. 89S-108S

728 Estimation on Unsaturated Characteristic Curves of Tailings obtained from Waste Dump of Imgi Mine in Busan. **2014**, 30, 47-58

727 Bibliography. **1982**, 321-357

726 Coupled Hydrothermal Flows of Liquid and Vapor in Welded Tuff: Numerical Modeling of Proposed Experiment. **1987**, 409-420

725 Hydrology. **1988**, 1-50

724 Solute Transport in the Unsaturated Zone: Model Verification and Input Data. **1989**, 355-363

723 Fluid Mechanics. **1991**, 385-463

722 Modelling water flow, nitrogen transport and root uptake including physical non-equilibrium and optimization of the root water potential. **1991**, 215-231

1

721 Modelling water flow, nitrogen uptake and production for wheat. **1991**, 313-329

1

720 Nitrogen Leaching from Agricultural Soils -A Comparison of Measured and Computer-Simulated Results. **1991**, 27-41

719 Water and solutes movement in soils: measurements, modelling and perspectives. **1993**, 385-400

718 Case studies on water and nutrient management. **1995**, 315-381

717 A Mesh-Adaptive Collocation Technique for the Simulation of Advection-Dominated Single- and Multiphase Transport Phenomena in Porous Media. **1995**, 307-346

716 Modelling water and nitrogen uptake of a potato crop growing on a ridge. **1995**, 75-88

715 Literaturverzeichnis. **1995**, 174-189

714 Fluid Mechanics. **1995**, 429-508

713 Measurements and Modeling of Tracer Transport in a Sandy Soil. **1995**, 409-424

712 ??????l.??????????. **1997**, 27, 35-42

- 711 Diffusions-Reaktionsprobleme in ungesättigten porösen Medien. **1997**, 243-253
- 710 Flow Channeling in Unsaturated Porous Media of Strong Heterogeneity. **1997**, 72-85
- 709 Bibliography. **1998**, 707-756
- 708 Kurzberichte über die Teilprojekte. **1998**, 105-459
- 707 Regionalisierte Modellierung des Bodenwasserhaushalts. **1999**, 303-331
- 706 Avaliação experimental de um modelo numérico para o processo de redistribuição da água no solo. **1999**, 23, 203-210
- 705 Evaluation of Various Soil-Water Characteristic Curve Models for Soils from Greece. **2012**, 69-76
- 704 Derivation of mass transfer model for unsaturated soil and its applications. **2014**, 1179-1187
- 703 Compaction simulation with soil/water/air coupled FEA code and parametric study. **2014**, 545-552
- 702 Soil Mechanics of Unsaturated Soils with Fractal-Texture. **2015**, 519-523
- 701 Alternative to Multifractal Analysis of Scalable Random Variables Applied to Measured and Estimated Soil Properties at an Arizona Field Site. **2015**, 133-143
- 700 Quantitative high-resolution observations of soil water dynamics in a complicated architecture with time-lapse Ground-Penetrating Radar.
- 699 Richards Flow. **2015**, 121-130
- 698 From slope- to regional-scale shallow landslides susceptibility assessment using TRIGRS. 1
- 697 Viticulture microzoning: a functional approach aiming to grape and wine qualities.
- 696 Soil Water Content and Triggering of Debris Flows in the Messina Area (Italy): Preliminary Remarks. **2015**, 2113-2117 0
- 695 Research Progress of Unsaturated Soil Seepage. **2015**, 05, 58-62
- 694 Nomogram for the Installation Specification of Drain Pipes for Embankments. **2015**, 56, 272-277

693 ANALYSIS STUDY AN EMBANKMENT MODEL WITH DRAINAGE. **2015**, 71, I\_429-I\_436

692 PORE AIR BEHAVIOR WITHIN A SLOPING EARTH STRUCTURE DUE TO RAINFALL INFILTRATION. **2015**, 71, I\_171-I\_180

691 A Hybrid Dual-Source Model of Estimating Evapotranspiration over Different Ecosystems. **2015**, 31-48

690 EVALUATION OF MECHANICAL BEHAVIOR OF A LARGE RIVER LEVEE DURING SEEPAGE AND DURING/AFTER EARTHQUAKE BASED ON SOIL-WATER-AIR COUPLED FINITE DEFORMATION ANALYSIS. **2015**, 71, I\_621-I\_632

689 Simulation of Land Management Effects on Soil N<sub>2</sub>O Emissions Using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. **2015**, 2207-2231

688 Numerical Simulation with a Saturation Formula of Flow in Porous Media for Overflowing a Bank. **2015**, 29, 326-334

3

687 Basic Study on Initial Deformation of Embankment due to Rainfall by Experiment and Simulation. **2015**, 10, 307-316

686 Modeling of Subsurface CO<sub>2</sub> Migration at Geological Carbon Sequestration Sites in Deep Saline Aquifers. **2015**, 791-840

685 Estimation of Saturation Velocity in Soils During Rainfall using Soil Box Test. **2015**, 25, 377-385

684 Determination of Water Retention and Unsaturated Hydraulic Conductivity of Brahmaputra Sand. **2015**, 5, 14-20

683 Back-Calculation of Soil-Water Characteristics Curve for Permeable Pavement Material Based on Infiltration Tests. **2015**, 15, 337-343

682 Air-coupled effects on triaxial behavior of silty specimens under a constant confining pressure and various exhausted conditions. **2016**, 2, 435-439

681 Soil Moisture Estimation and Drought Assessment at the Spatio-Temporal Scales using Remotely Sensed Data: (I) Soil Moisture. **2016**, 32, 60-69

2

680 Soils with Specific Features. **2016**, 289-354

1

679 Mathematical modeling of soil hydrology in two arable Chernozems with different depth to carbonates. **2016**, 8, 401-410

678 Comparative Study on Unsaturated Characteristic Curves of Boeun Granite Weathered Soil during Drying and Wetting Paths. **2016**, 32, 15-24

677 Investigation of the structural properties of porous material according to the sorption isotherms and drainage curves. **2016**, 3, 23-32

1

676 Development of Screening Parameter for the Design of Monolithic Alternative Landfill Covers in Arid and Semi-Arid Climates. **2016**, 4, 10-21

- 675 Estimation of Irrigation Water Amounts for Farm Products based on Various Soil Physical Properties and Crops. **2016**, 58, 1-8 1
- 674 Evaluation of Water Retentive Pavement as Mitigation Strategy for Urban Heat Island Using Computational Fluid Dynamics. **2016**, 10, 179-189 2
- 673 Hydraulic Conductivity. **2017**, 1133-1136
- 672 DEVELOPMENT OF SOIL-WATER COUPLED NMM-DDA CONSIDERING UNSATURATED SEEPAGE. **2017**, 73, I\_199-I\_210
- 671 Infiltration Simulation in Porous Media: A Universal Functional Solution for Unsaturated Media. **2017**, 85-95
- 670 Effects of Soil Sampling Time on Soil Physical Parameters and Infiltration in Sugarcane Fields. **2017**, 23, 43-50
- 669 Infiltration control using capillary barriers for conservation of historical tumulus mounds. **2017**, 5, 5-10
- 668 Influences of Rainfall on Shallow Slope Failures. **2017**, 201-206
- 667 AVAILABILITY OF MERGING PARTICLE FILTER TO DATA ASSIMILATION OF SEEPAGE MODEL BASED ON FIELD MEASUREMENTS. **2017**, 73, I\_45-I\_54
- 666 INFLUENCE OF DIFFERENCE IN CONSTRUCTION TIME DUE TO ANALYSIS ON INITIAL STRESS OF EMBANKMENT. **2017**, 73, I\_489-I\_496
- 665 STUDY ON PRACTICAL METHOD FOR ESTIMATING SOIL MOISTURE PARAMETERS BY PARTICLE FILTER METHOD. **2017**, 73, I\_105-I\_113
- 664 Physical Modelling of the Rainfall Infiltration Processes in Pyroclastic Soil Responsible of Landslide Trigger. **2017**, 299-305 1
- 663 The Flow Response of Reinforced Earth Structures Utilized Fine-Grained Poorly Draining Materials as Backfill. **2018**, 598-609 1
- 662 Influence of Microcracking of Host Rock on the Hydromechanical Responses of Underground Structures: Constitutive Modeling and Numerical Simulations. **2018**, 726-735
- 661 ANALYTICAL STUDY ON DESTRUCTION OF EMBANKMENT STRUCTURE CAUSED TO SUDDEN HEAVY RAIN. **2018**, 74, I\_373-I\_380
- 660 Spatial and Temporal Nitrate Transport in Deep Heterogeneous Vadose Zone of India's Alluvial Plain. **2018**, 171-178
- 659 Modeling Multiphase Mass Transport. **2018**, 367-450
- 658 Hydromechanics: Poroelasticity as a Simple Case. **2018**, 219-235

- 657 NUMERICAL STUDY ON SEEPAGE FLOW IN SLOPE AT HEAVY RAIN CONSIDERING NON-UNIFORMITY AND PORE AIR FLOW. **2018**, 74, I\_7-I\_12
- 656 Partial Differential Equations. **2018**, 67-78
- 655 Hydro: Pore Water Movement. **2018**, 105-121
- 654 Comparison of Hydrus-1D to Thermal Dispersion Model for Water-heat Transport in a Semi-arid Region of Tunisia. **2018**, 11, 64-70
- 653 Steady/Unsteady Flow Through Small Earthfill Dams. **2018**, 8, 39-44
- 652 The Development of Laboratory Equipment for Testing The Characteristics of Unsaturated Soils. **2018**, 8, 31-38
- 651 Modeling Soil Dynamic Processes. 547-577
- 650 Hydro-Thermal Properties of the Unsaturated Soil. **2019**, 18-26
- 649 6.1 Solute Content and Concentration. 1253-1321 1
- 648 3.6.1.1 Laboratory. 899-936
- 647 Evaluation of diversion length by numerical simulation for design of the capillary barrier. **2018**, 13, 193-204 5
- 646 Modelling water and salinity risks to almonds under sustained deficit and saline water irrigation. **2018**, 169-176
- 645 Unsaturated Hydraulic Conductivity of Compacted Bentonite: Revisit of Microstructure Effects. **2019**, 544-550 2
- 644 Effects of Loess Cavity on Soil Moisture Movement: Revealed by Soil Column and HYDRUS Model. **2019**, 11, 371-394 1
- 643 DEVELOPMENT OF VOF-BASED NUMERICAL MODEL APPLICABLE TO UNSATURATED SOIL AND APPLICATION TO SEEPAGE AND EROSION PHENOMENA. **2019**, 75, I\_229-I\_234
- 642 Water retention capacity in Arenosols and Ferralsols in a semiarid area in the state of Bahia, Brazil. **2019**, 91, e20181031 2
- 641 SOIL-WATER-AIR COUPLED FINITE DEFORMATION SIMULATION OF MODEL TEST ON SEEPAGE FAILURE OF LEVEE. **2019**, 75, I\_379-I\_388
- 640 NUMERICAL SIMULATION OF LOCALLY APPEARED SPRING WATER IN NON-UNIFORM SLOPES. **2019**, 75, I\_1237-I\_1242

- 639 On the Stability of a Fully Instrumented River Embankment Under Transient Conditions. **2020**, 369-378 1
- 638 Properties of Cemented Coal Gangue-Fly Ash Backfill. **2020**, 127-194
- 637 Properties of Cemented Tailings Backfill. **2020**, 57-114
- 636 Soil water stress ranges: water use efficiency and Chinese cabbage production in protected cultivation. **2019**, 37, 309-314 0
- 635 Using Pedotransfer Function (PTF) analysis in the assessment of the parameters of potential radionuclide transport through the vadose zone of PRAW in Novi Han. An initial stage of a model case study. **2019**, 48, 3-12
- 634 The Movement of Water in the Systems. **2020**, 133-178
- 633 Numerical Analysis of Depressurization Rate Effects on the Gas Hydrate Dissociation Behavior in Core Scale Experimental System. **2019**, 56, 334-343 1
- 632 Determining the Unsaturated Hydraulic Properties of Cohesionless Soils: An Integrated Experimental and Inverse Modeling Approach. **2020**, 43, 20180185
- 631 Prediction of the Soil Water Retention Curve from Basic Geotechnical Parameters by Machine Learning Techniques. **2020**, 383-392 0
- 630 Sensitivity Analyses on Chloride Ion Penetration into Undersea Tunnel Concrete. **2019**, 17, 592-602 2
- 629 Extension of the Gardner exponential equation to represent the hydraulic conductivity curve. **2019**, 67, 359-371
- 628 Estimation of Change in Slope Stability Due to Rainfall Varied with Time, Based on Unsaturated Soil Mechanics. **2020**, 817-824
- 627 Estimation of evapotranspiration rate by using the Penman-Monteith and Hargreaves formulas for the loess in Northeast Bulgaria complex with HYDRUS-1D. **2019**, 48, 3-9 1
- 626 Laboratory testing of seepage in concrete. **2020**, 195, 03030
- 625 Comparison between Soil-Water Characteristic Curves based on filter paper method and grain-size distribution/volume-mass prediction: An evaluation of input data stemmed from hydrometer and Cilas grain-size analyser. **2020**, 195, 03027
- 624 2D Infiltration in Unsaturated Porous Media. **2020**, 99-138
- 623 Research of subsurface contamination with gasoline within Boryspil airport using mathematical modelling. **2020**, 49-53 0
- 622 Tarla koöllerında doymamış toprak hidrolik iletkenliğinin belirlenmesi ve matematiksel modellenmesi. 291-298

|     |  |   |
|-----|--|---|
| 621 | Failure Mechanism of Weak Rock Slopes considering Hydrological Conditions. 1   | 1 |
| 620 | Scaling Relationships between van Genuchten Model Parameters and Hydraulic Conductivity. <b>2021</b> , 861, 072076   |   |
| 619 | PROPOSAL OF THE METHOD ESTIMATING SEEPAGE ANALYSIS MODEL INCLUDING A BOUNDARY CONDITION USING MERGING PARTICLE FILTER. <b>2020</b> , 76, 52-66                                 |   |
| 618 | Pressure and flow statistics of Darcy flow from simulated annealing. <b>2021</b> , 54, 035002  |   |
| 617 | Capillary transport in paper porous materials at low saturation levels: normal, fast or superfast?. <b>2020</b> , 476, 20200488  | 1 |
| 616 | Deformation Characteristics with Porewater Pressure Development of Shallow Landslide Triggered by Rainfall Infiltration. <b>2021</b> , 227-234                                 |   |
| 615 | An Application of RASPEN to Discontinuous Galerkin Discretisation for Richards's Equation in Porous Media Flow. <b>2021</b> , 323-335  |   |
| 614 | Determination of irrigation scheduling thresholds based on HYDRUS-1D simulations of field capacity for multilayered agronomic soils in Alabama, USA. <b>2022</b> , 259, 107234 | 2 |
| 613 | Role of Geotechnical Properties in the Dynamic Aspects of Methane Migration in Biocovers. <b>2022</b> , 26,  |   |
| 612 | Long-term Thermo-hydraulic Response of the Shallow Subsurface soil in the Vicinity of a Buried Horizontal Heat Source. <b>2022</b> , 183, 122120                               | 1 |
| 611 | Hierarchical prediction of soil water content time series. <b>2022</b> , 209, 105841   | 0 |
| 610 | Fate of PAHs in treated wastewater reused as irrigation water: Environmental risks in water-soil-ryegrass multimedia system. <b>2022</b> , 424, 127500                         | 1 |
| 609 | Soil-Water Characteristics of Tropical Clay Soil under High and Low Suction Conditions. <b>2020</b> , 08, 162-175  |   |
| 608 | Free Product Recovery of Non-aqueous Phase Liquids in Contaminated Sites: Theory and Case Studies. <b>2020</b> , 61-148  |   |
| 607 | Developing and Testing Multiphase MPM Approaches for the Stability of Dams and River Embankments. <b>2020</b> , 2179-2195  | 0 |
| 606 | The Quantization Algorithm Impact in Hydrological Applications: Preliminary Results. <b>2020</b> , 191-204   |   |
| 605 | Effect of Initial Suction on the Hydraulic Properties of an Algerian Waste Landfill Lining. <b>2020</b> , 83-92  |   |
| 604 | Thermal response of energy foundations installed in unsaturated residual soils. <b>2020</b> , 205, 05021   |   |

- 603 Gas exchanges and growth of soybean cultivars submitted to water deficiency. 50, 0
- 602 PREDICTED PERFORMANCE OF ESTIMATED SEEPAGE ANALYSIS MODEL BY DATA ASSIMILATION BASED ON MEASUREMENT DATA OF SOIL COLUMN TEST. **2020**, 76, 350-362
- 601 Sensitivity of recharge estimation to the pore connectivity parameter of vadose zone rocks. **2020**, 81-87
- 600 Global Shallow Groundwater Patterns from Soil Moisture Satellite Retrievals. **2021**, 1-1 0
- 599 The Effect of Irrigation Treatment on the Growth of Lavender Species in an Extensive Green Roof System. **2020**, 12, 863 0
- 598 Hydraulic Characterization of a Self-Weight Compacted Coal. **2020**, 42, 48-60 1
- 597 Simulation of Soil Water and Heat Transfer under Subsurface Irrigation Considering Spatial Differences in Soil Hydraulic Properties. **2020**, 54, 153-162
- 596 Wave induced nonmonotonic capillary-pressure perturbations in an unsaturated medium. **2020**,
- 595 Groundwater recharge assessment in an arid region through chloride mass balance and unsaturated numerical modelling: the Kasserine Aquifer System. **2021**, 14, 1 1
- 594 Simulation of Soil Water and Heat Flow under Plastic Mulching and Different Ridge Patterns. **2021**, 11, 1099 3
- 593 An objective framework for determination of the air-entry value from the soil-water characteristic curve. **2021**, 12, 100298 4
- 592 Large scale hill creep in cohesive sediments: A field and model study. **2005**, 469-482
- 591 Development of a 2-D modeling system for reactive transport in variable saturated porous media. **2006**, 247-254
- 590 Flow Modeling. **2007**, 207-228
- 589 Hierarchical sensitivity analysis for a large-scale process-based hydrological model applied to an Amazonian watershed. **2020**, 24, 4971-4996
- 588 Wheel track loosening can reduce the risk of pesticide leaching to surface waters. **2021**, 37, 906-920 2
- 587 Numerical Modeling of Groundwater in Israel. **2021**, 395-416
- 586 A Stochastic Framework to Optimize Monitoring Strategies for Delineating Groundwater Divides. 8, 0

|     |   |   |
|-----|---|---|
| 585 | The effect of sorptivity on cumulative infiltration. <b>2021</b> , 21, 606-614  | 4 |
| 584 | Vertical Dynamic Response of a Pile Embedded in Layered Transversely Isotropic Unsaturated Soils. <b>2022</b> , 148,  | 2 |
| 583 | Modeling variable-density flow in saturated-unsaturated porous media: An advanced numerical model. <b>2022</b> , 159, 104077  | 1 |
| 582 | Numerical modeling of 2D hygro-thermal transport in unsaturated concrete with capillary suction. <b>2022</b> , 45, 103640   | 1 |
| 581 | Simulating and monitoring water flow, salinity distribution and yield production under buried diffuser irrigation for date palm tree in Saharan Jemna oasis (North Africa). <b>2022</b> , 325, 107772 | 5 |
| 580 | Stability analysis of unsaturated soil slopes under reservoir drawdown and rainfall conditions: steady and transient state analysis. <b>2022</b> , 142, 104541  | 7 |
| 579 | Multifrequency electromagnetic geophysical tools for evaluating the hydrologic conditions and performance of evapotranspiration barriers. <b>2021</b> , 303, 114123                                   | 1 |
| 578 | Limitations of the Model Structure and Soil Hydraulic Property Observations in Pedotransfer Function Development.   | 0 |
| 577 | Closed-form hydraulic conductivity equations for multimodal unsaturated soil hydraulic properties. <b>2022</b> , 21, e20168   | 2 |
| 576 | Nonlinear mixed-dimension model for embedded tubular networks with application to root water uptake. <b>2021</b> , 450, 110823  | 1 |
| 575 | Biocrust effects on soil infiltrability in the Mu Us Desert: Soil hydraulic properties analysis and modeling. <b>2021</b> , 69, 378-386   | 1 |
| 574 | Model validation and analyses of parameter sensitivity and uncertainty for modeling long-term retention and leaching of PFAS in the vadose zone. <b>2021</b> , 603, 127172                            | 4 |
| 573 | STEMMUS-UEB v1.0.0: integrated modeling of snowpack and soil water and energy transfer with three complexity levels of soil physical processes. <b>2021</b> , 14, 7345-7376                           | 1 |
| 572 | Effect of saline land reclamation by constructing the "Raised Field -Shallow Trench" pattern on agroecosystems in Yellow River Delta. <b>2021</b> , 261, 107345                                       | 0 |
| 571 | Using depth specific electrical conductivity estimates to improve hydrological simulations in a heterogeneous tile-drained field. <b>2021</b> , 604, 127232   | 1 |
| 570 | Numerical analysis of unsteady flow through unsaturated soil of uniform sized spheres with distinct packing arrangements. <b>2021</b> ,   |   |
| 569 | The effects of management practices and fires on soil water dynamics at three locations across Europe. <b>2021</b> ,  |   |
| 568 | An Investigation of Rainfall-Induced Landslides From the Pre-Failure Stage to the Post-Failure Stage Using the Material Point Method. <b>2021</b> , 9,  | 1 |

- 567 Slope stability analysis of a landfill subjected to leachate recirculation and aeration considering bio-hydro coupled processes. **2021**, 8, 3
- 566 An improved Picard iteration scheme for simulating unsaturated flow in porous media. **2021**, 14, 1 0
- 565 On infiltration and infiltration characteristic times.
- 564 Relative Permeability Modeling Using Extra Trees, ANFIS, and Hybrid LSSVM&SA Methods. 1 1
- 563 Hydro-mechanical modelling of gas transport in clayey host rocks for nuclear waste repositories. **2021**, 148, 104987 1
- 562 What Can We Learn From the Water Retention Characteristic of a Soil Regarding Its Hydrological and Agricultural Functions? Review and Analysis of Actual Knowledge. *Water Resources Research*, **2021**, 57, e2021WR031026 5.4 0
- 561 Coupling of a water permeability function with a bounding surface hydromechanical model for unsaturated soils. **2021**, 100291
- 560 Effects of grass type on hydraulic response of the three-layer landfill cover system. **2021**, 734242X211061213 0
- 559 Study on Thermal Performances of a Horizontal Ground Heat Exchanger Geothermal System with Different Configurations and Arrangements.
- 558 Soil Measurements. **2021**, 1625-1652
- 557 Water productivity of passion fruit under different forms of propagation and soil-based irrigation management criteria. 1
- 556 Using Inverse Modeling by HYDRUS-1D to Predict Some Soil Hydraulic Parameters from Soil Water Evaporation. **2022**, 25, 21-35
- 555 Transient Two-Phase Flow in Porous Media: A Literature Review and Engineering Application in Geotechnics. **2022**, 2, 32-93 6
- 554 A screening model for quantifying PFAS leaching in the vadose zone and mass discharge to groundwater. **2022**, 160, 104102 1
- 553 A general analytical expression for pore size distribution based on probability theory. **2022**, 297, 106501 0
- 552 Discrete element model for the failure analysis of partially saturated porous media with propagating cracks represented with embedded strong discontinuities. **2022**, 390, 114482 1
- 551 Poplar trees do not always act as a water pump: Evidence from modeling deep drainage in a low-coverage-mode shelterbelt in China. **2022**, 605, 127383 0
- 550 Effects of canal damage characteristics on canal seepage based on a three-dimensional numerical model. **2022**, 605, 127295 0

|     |   |   |
|-----|---|---|
| 549 | Assessing the influence of the hydraulic boundary conditions on clay slope stability: The Fontana Monte case study. <b>2022</b> , 297, 106509                     | 0 |
| 548 | Approximate analytical solutions for assessing the effects of unsaturated flow on seawater extent in thin unconfined coastal aquifers. <b>2022</b> , 160, 104104  |   |
| 547 | The influence of soil texture and environmental conditions on frozen soil infiltration: A numerical investigation. <b>2022</b> , 194, 103456                      | 1 |
| 546 | Stability and Deformation Responses of Earth Slopes Subjected to Multiple Natural and Manmade Hazards. <b>2022</b> , 22,  | 1 |
| 545 | The change process of soil hydrological properties in the permafrost active layer of the Qinghai-Tibet Plateau. <b>2022</b> , 210, 105938                         | 0 |
| 544 | Rainfall Infiltration and Water-Retention Characteristics of Rockfill Material. <b>2022</b> , 22,   |   |
| 543 | Torsional dynamic response of a pipe pile in homogeneous unsaturated soils. <b>2022</b> , 143, 104607   | 2 |
| 542 | Soil Property and Subsurface Heterogeneity Control on Groundwater Recharge of Vadose Zone Injection Wells. <b>2022</b> , 27,                                      | 0 |
| 541 | Modeling seasonal soil moisture dynamics in gley soils in relation to groundwater table oscillations in eastern Croatia. <b>2022</b> , 211, 105987                | 1 |
| 540 | New permafrost is forming on the exposed bottom of Zonag Lake on the Qinghai-Tibet Plateau.. <b>2022</b> , 815, 152879  | 3 |
| 539 | Modelling hydraulic conductivity for porous building materials based on a prediction of capillary conductivity at capillary saturation. <b>2022</b> , 186, 122457 |   |
| 538 | Physical-hydric properties of Oxisols as influenced by soil structure and clay mineralogy. <b>2022</b> , 211, 106009  | 1 |
| 537 | Measuring and modelling nitrate fluxes in a mature commercial apple orchard. <b>2022</b> , 263, 107410  | 1 |
| 536 | 9. Écoulement et transport en milieu partiellement saturé. <b>2020</b> , 305-320  |   |
| 535 | COMPACTION DEGREE DISTRIBUTION INDUCED BY ROLLER COMPACTION WITH USING SOIL/WATER/AIR COUPLED F. E. SIMULATION. <b>2021</b> , 77, I_263-I_273                     |   |
| 534 | DEVELOPMENT OF A STORAGE DISCHARGE RELATIONSHIP TO REFLECT WATER RETENTION CURVE, AND ITS APPLICATION TO A DISTRIBUTED RUNOFF MODEL. <b>2021</b> , 77, 124-135    | 2 |
| 533 | A MULTIPHASE COUPLED 2-POINT MPM FOR SIMULATING LARGE DEFORMATION OF UNSATURATED SOIL. <b>2021</b> , 77, I_285-I_296  |   |
| 532 | Concrete Drying Modelling in a Variable Temperature Environment. <b>2022</b> , 47-58  |   |

|     |   |       |
|-----|---|-------|
| 531 | Effect of Relative Humidity on Cement Paste: Experimental Assessment and Numerical Modelling. <b>2022</b> , 123-130   |       |
| 530 | Analytical and numerical modelling of air trapping during wetting of unsaturated soils. 1   | 0     |
| 529 | Analyzing Effects of Crops on SMAP Satellite-Based Soil Moisture Using a RainfallâRunoff Model in the U.S. Corn Belt. <b>2022</b> , 15, 247-260   | 1     |
| 528 | Diagnosis of model errors with a sliding time-window Bayesian analysis. <i>Water Resources Research</i> , <b>2022</b> , 58, 1-15  | 5.4 0 |
| 527 | Projecting Climate Change Effect on Soil Water Fluxes and Urea Fertilizer Fate in the Semiarid Pampas of Argentina. 1   | 1     |
| 526 | Characterization Method and Application of Heterogeneous Reservoir Based on Different Data Quantity. <b>2022</b> , 2021,  | 1     |
| 525 | On the three-parameter infiltration equation of Parlange et al. (1982): Numerical solution, experimental design, and parameter estimation. <b>2022</b> , 21,                                  | 2     |
| 524 | Modelo numfico de simulaci3n del flujo de agua en el suelo afectado por la absorci3n de la ra. <b>2022</b> , 26, 37-46   | 0     |
| 523 | Knowledge-Based Optimal Irrigation Scheduling of Agro-Hydrological Systems. <b>2022</b> , 14, 1304  | 0     |
| 522 | Benefit of Unsaturated Soil Mechanics Approach on the Modeling of Early-Age Behavior of Rammed Earth Building.. <b>2022</b> , 15,   | 1     |
| 521 | Implementing the Water, HEat and Transport model in GEOframe (WHETGEO-1D v.1.0): algorithms, informatics, design patterns, open science features, and 1D deployment. <b>2022</b> , 15, 75-104 | 0     |
| 520 | Parasite inversion for determining the coefficients and time-validity of Philip's two-term infiltration equation. <b>2022</b> , 21,   | 2     |
| 519 | From Climate Conditions to the Numerical Slope Stability Analysis of Surface Coal Mines. <b>2022</b> , 12, 1538   | 1     |
| 518 | Monitoring and Modeling of Saline-Sodic Vertisol Reclamation by <i>Echinochloa stagnina</i> . <b>2022</b> , 6, 4  |       |
| 517 | Stochastic Assessment of Groundwater Contamination Risks From Onshore Gas Development Using Computationally Efficient Analytical and Numerical Transport Models. <b>2022</b> , 3,             |       |
| 516 | Permeability Prediction of Sandstones Based on Mercury Intrusion Method. <b>2022</b> , 2152, 012003   |       |
| 515 | Suction-based model for predicting cyclic and transient volume changes in expansive clays using a material property function. <b>2022</b> , 296, 106491                                       | 3     |
| 514 | Moisture management in biochar-amended green roofs planted with <i>Ophiopogon japonicus</i> under different irrigation schemes: an integrated experimental and modeling approach. 1           | 0     |

|     |  |     |   |
|-----|--|-----|---|
| 513 | Influence of Soil Heterogeneity on the Behavior of Frozen Soil Slope under Freeze-Thaw Cycles. <b>2022</b> , 131, 119-135  |     |   |
| 512 | Testing the Model Efficiency of HYDRUS 2D/3D Under Desert Conditions for Water Content and Pore Electrical Conductivity: a Case Study in an Olive Orchard. 1             |     | 1 |
| 511 | Experimental Study on Permeability Anisotropy of Unsaturated Compacted Loess. <b>2022</b> , 2022, 1-14   |     | 1 |
| 510 | Effects of Unsaturated Flow on Hydraulic Head Response to Earth Tides—An Analytical Model. <i>Water Resources Research</i> , <b>2022</b> , 58,                           | 5-4 | 2 |
| 509 | Projection-based resolved interface 1D-3D mixed-dimension method for embedded tubular network systems. <b>2022</b> , 109, 15-29  |     | 0 |
| 508 | Virtual laboratory for understanding impact of heterogeneity on ecohydrologic processes across scales. <b>2022</b> , 149, 105283   |     | 0 |
| 507 | Quantitative effects of vadose zone thickness on delayed recharge of groundwater for an irrigation district in an arid area of Northwest China. <b>2022</b> , 40, 101022 |     | 0 |
| 506 | Episodic extreme rainfall events drive groundwater recharge in arid zone environments of central Australia. <b>2022</b> , 40, 101005                                     |     | 0 |
| 505 | Effect of long-term saline mulched drip irrigation on soil-groundwater environment in arid Northwest China.. <b>2022</b> , 153222  |     | 0 |
| 504 | Estimating freshwater lens volume in highly permeable aquifers. <b>2022</b> , 16, 12-17  |     |   |
| 503 | Effects of tillage systems on soil organic carbon and some of physical properties.   |     | 0 |
| 502 | Vertical dynamic impedance of end-bearing pile groups embedded in homogeneous unsaturated soils.   |     | 2 |
| 501 | A coupled thermal-hydraulic-mechanical approach to modeling the impact of roadbed frost loading on water main failure. <i>Water Resources Research</i> ,                 | 5-4 | 3 |
| 500 | Competitive Effects of Permeability and Gravity on the Drying-Out Process during CO <sub>2</sub> Geological Sequestration in Saline Aquifers. <b>2022</b> , 2021,        |     |   |
| 499 | Characterisation and modelling of water wicking and evaporation in capillary porous media for passive and energy-efficient applications. <b>2022</b> , 208, 118159       |     | 0 |
| 498 | Sensors and frequencies of soil water content measurement affecting agro-hydrological simulations and irrigation management. <b>2022</b> , 194, 106763                   |     |   |
| 497 | Coupled bio-hydro-thermo-mechanical interactions of landfilled MSW based on a multi-phase, multi-component numerical model. <b>2022</b> , 144, 104659                    |     | 3 |
| 496 | Experiment for validation of numerical models of coupled heat and mass transfer around energy cables. <b>2022</b> , 21,  |     | 1 |

- 495 NUMERICAL SIMULATION OF THREE-DIMENSIONAL FINGERED FLOW AND QUANTITATIVE EVALUATION OF THE GENERATED FLOW FIELD. **2021**, 77, I\_115-I\_120
- 494 Influence of Intensive Cropping of Vegetables on Physical-Hydric Properties and Functions of an Oxisol in Brazilian Cerrado.
- 493 Using splines in the application of the instantaneous profile method for the hydrodynamic characterization of a tropical agricultural Vertisol. **2022**, 46,
- 492 Seepage flow analysis to simulate shallow groundwater rise on the hydrogeological barrier :. **2022**, 59, 60-66
- 491 Boron, Manganese, and Zinc Sorption and Leaf Uptake on Citrus Cultivated on a Sandy Soil.. **2022**, 11, 0
- 490 Soilphysics : A suite of tools to fit and compare water retention curves. 1
- 489 Numerical Analysis for Relative Permeability Hysteresis Models in Reservoir Simulation of CO2 Trapping in Underground Carbon Storage. **2022**, 0
- 488 Developing a soil column system to measure hydrogeophysical properties of unconsolidated sediment. **2022**, 21, 0
- 487 Parameter estimation from spontaneous imbibition into volcanic tuff. **2022**, 21, 0
- 486 A log-spiral limit equilibrium analysis for passive earth pressure under the effect of unsaturated seepage conditions. 1-19
- 485 Multiphase modeling of the effect of external loading on the shrinkage of concrete and its consequences for modeling tensile creep. **2022**, 104499 0
- 484 Modeling Streamflow at the Iberian Peninsula Scale Using MOHID-Land: Challenges from a Coarse Scale Approach. **2022**, 14, 1013 0
- 483 Parameterizing field capacity as the upper limit of available water in bucket-type hydrological models. **2022**, 194, 106801 0
- 482 Random Forest Based Downscaling of SMAP L4 Soil Moisture and Subsequent Use in Landslide Slope Stability Analysis. **2022**,
- 481 Examining subsurface response to an extreme precipitation event using HYDRUS-1D.
- 480 The importance of freeze-thaw cycles for lateral tracer transport in ice-wedge polygons. **2022**, 16, 851-862
- 479 Modeling unsaturated flow in fractured rocks with scaling relationships between hydraulic parameters. **2022**, 2
- 478 Simulations of Soil Water and Heat Processes for No Tillage and Conventional Tillage Systems in Mollisols of China. **2022**, 11, 417 1

|     |  |       |
|-----|--|-------|
| 477 | Numerical Assessment of Groundwater Flowpaths below a Streambed in Alluvial Plains Impacted by a Pumping Field. <b>2022</b> , 14, 1100                               | 0     |
| 476 | The 2018 hot drought pushed conifer wood formation to the limit of its plasticity: Consequences for woody biomass production and tree ring structure.. <b>2022</b> , | 1     |
| 475 | Analysis of Groundwater Recharge in Mongolian Drylands Using Composite Vadose Zone Modeling. <b>2022</b> , 4,  | 0     |
| 474 | Towards a closure of catchment mass balance: insight on the missing link from a vegetated lysimeter. <i>Water Resources Research</i> ,                               | 5.4 2 |
| 473 | Influence of Soil Hydraulic Characteristics in Modelling Capillary Barrier Systems. <b>2022</b> ,  |       |
| 472 | A Novel Radial Basis Function Approach for Infiltration-Induced Landslides in Unsaturated Soils. <b>2022</b> , 14, 1036  | 1     |
| 471 | Estimation of groundwater recharge rates using soil-water isotope profiles: a case study of two contrasting dune types on Langeoog Island, Germany. 1                | 0     |
| 470 | Moisture-dependent anisotropy calculations using the van Genuchten-Mualem model.   |       |
| 469 | Stepping beyond perfectly mixed conditions in soil hydrological modelling using a Lagrangian approach. <b>2022</b> , 26, 1615-1629                                   |       |
| 468 | Two-stage Bayesian experimental design optimization for measuring soil-water characteristic curve. <b>2022</b> , 81, 1   |       |
| 467 | Unique Relationship Between Rate and Cumulative Flow: A Property of Infiltration and Evaporation in Soils. <b>2022</b> , 49,   | 0     |
| 466 | Adaptive Model Reduction and State Estimation of Agro-hydrological Systems. <b>2022</b> , 195, 106825  | 0     |
| 465 | Challenges in predicting the reactivity of mine waste rocks based on kinetic testing: Humidity cell tests and reactive transport modeling. <b>2022</b> , 106996      | 0     |
| 464 | Design of gas collection systems: Issues and challenges.. <b>2022</b> , 734242X221086949   | 1     |
| 463 | Vegetation-related influences on carbon and water dynamics of two temperate forage crops.  | 0     |
| 462 | Prediction of Soil-Water Retention Curves of Road Base Aggregate with Various Clay Fine Contents. <b>2022</b> , 12, 3624   |       |
| 461 | Modeling the impact of climate change and vegetation conversion on water budget: A case study in the Loess Plateau of China. <b>2022</b> , 40, 101040                | 1     |
| 460 | Stability analysis of layered slopes in unsaturated soils. 1   | 1     |

|     |  |     |   |
|-----|--|-----|---|
| 459 | Hydrogeophysical Inversion of Time-Lapse ERT Data to Determine Hillslope Subsurface Hydraulic Properties. <i>Water Resources Research</i> , <b>2022</b> , 58,                    | 5-4 | 3 |
| 458 | Improved Prediction of Hydraulic Conductivity with a Soil Water Retention Curve that Accounts for Both Capillary and Adsorption Forces. <i>Water Resources Research</i> ,        | 5-4 | 2 |
| 457 | Evaluation of empirical models for estimating hydraulic conductivity using gradation characteristics of unconsolidated fluvial sediments. <b>2022</b> , 15, 1                    |     | 1 |
| 456 | Water Balance of an Earth Fill Built of Compacted Clay: Field Data and Numerical Modeling. <b>2022</b> , 148,  |     |   |
| 455 | Experimental study on gas permeability of cement-based materials. <b>2022</b> , 129, 104491  |     | 0 |
| 454 | Method for predicting unsaturated permeability using basic soil properties. <b>2022</b> , 34, 100754   |     |   |
| 453 | Experimental and numerical investigation of drying rate impact on moisture loss, exchange coefficient and drying shrinkage of cement paste. <b>2022</b> , 330, 127099            |     |   |
| 452 | Assessing soil water balance to optimize irrigation schedules of flood-irrigated maize fields with different cultivation histories in the arid region. <b>2022</b> , 265, 107543 |     | 2 |
| 451 | Response and contribution of shallow groundwater to soil water/salt budget and crop growth in layered soils. <b>2022</b> , 266, 107574   |     | 3 |
| 450 | Solving hindered groundwater dynamics in restored tidal marshes by creek excavation and soil amendments: A model study. <b>2022</b> , 178, 106583                                |     |   |
| 449 | Recycling of paper/wood industry waste for hydromechanical stability of expansive soils: A novel approach. <b>2022</b> , 348, 131345   |     | 4 |
| 448 | Comparing the effect of different irrigation water scenarios on arid region pecan orchard using a system dynamics approach. <b>2022</b> , 265, 107547                            |     | 1 |
| 447 | Evaluating environmental effects on the structural behavior of the railroad track subgrade considering different sub-ballast design solutions. <b>2022</b> , 34, 100761          |     | 1 |
| 446 | Influence of living grass Roots and endophytic fungal hyphae on soil hydraulic properties. <b>2022</b> , 22, 100510  |     | 0 |
| 445 | Estimating groundwater recharge in the assiniboine delta aquifer using HYDRUS-1D. <b>2022</b> , 267, 107514  |     | 0 |
| 444 | Heat, water and vapor coupled migration in loess under uniaxial freezing condition. <b>2022</b> , 198, 103550  |     | 0 |
| 443 | Modeling of multifield coupling interactions in an aerobic landfill based on the finite volume method. <b>2022</b> , 146, 104704   |     | 0 |
| 442 | DNAPL flow and complex electrical resistivity evolution in saturated porous media: A coupled numerical simulation.. <b>2022</b> , 248, 104003                                    |     | 0 |

- 441 Selection criteria of mesh size and time step in FEM analysis of highly nonlinear unsaturated seepage process. **2022**, 146, 104712 0
- 440 Estimation of Water Retention Characteristics Depending on the Particle Sizes of Perlite Using van Genuchten Equation with Retention Curve Program. **2021**, 54, 276-288
- 439 1-Dimensional numerical modelling of unsaturated water flow and oxygen diffusion in overburden material column using hydrus 1-D. **2021**, 882, 012064
- 438 Geotechnical Engineering Perspectives: Challenges and Solutions in the Transition to a Post-Lignite Era. **2021**, 5,
- 437 Considering water flow in snow pack with soil physicsâWater retention and flow in porous media determined by the pore structureâ**2021**, 83, 547-554
- 436 Estimation of Stagnosol Hydraulic Properties and Water Flow Using Uni- and Bimodal Porosity Models in Erosion-Affected Hillslope Vineyard Soils. **2022**, 12, 33 1
- 435 Vadose zone modeling to identify controls on groundwater recharge in an unconfined granular aquifer in a cold and humid environment with different meteorological data sources. **2022**, 30, 653-672
- 434 Evolution of Hydraulic Conductivity of Unsaturated Compacted Na-Bentonite under Confined Condition-Including the Microstructure Effects.. **2021**, 15, 1
- 433 Variations in hydraulic properties of collapsible loess exposed to wetting and shearing. 1
- 432 General 1-D hydrogeological model for temporal near-surface loess saturation assessment for the needs of radon potential mapping. **2021**, 82, 219-221 0
- 431 Numerical approach for solution of fluid and heat transfer coupled problem through porous media. **2021**,
- 430 Simulating the Effects of Thinning Events on Forest Growth and Water Services Asks for Daily Analysis of Underlying Processes. **2021**, 12, 1729 1
- 429 Infiltration under Ponded Conditions. **2021**, 13, 3492
- 428 Sensitivity Analysis Strategy to Assess the Salting-Out Problem during CO2 Geological Storage Process. **2021**, 2021, 1-14
- 427 Inverse Analysis of a Failed Highway Embankment Slope in North Texas. **2022**, 583-594
- 426 Experimental Study on SoilâWater Retention Properties of Compacted Expansive Clay. **2022**, 433-445 2
- 425 Evaluating the methods for predicting permeability of unsaturated soils. **2022**, 347, 03008
- 424 Parameters characterizing leakages from damaged water pipes in the aspect of environmental security. **2022**, 12, 1 0

|     |   |     |   |
|-----|---|-----|---|
| 423 | Salt transport under tide and evaporation in a subtropical wetland: Field monitoring and numerical simulation. <i>Water Resources Research</i> ,                                | 5-4 | 0 |
| 422 | Comparison of seven Weibull distribution models for predicting relative hydraulic conductivity. <i>Water Resources Research</i> ,   | 5-4 |   |
| 421 | Dynamic Water Potential Waves in Unsaturated Soils. <b>2022</b> , 104198  |     | 0 |
| 420 | Coupled full-waveform inversion of horizontal borehole ground penetrating radar data to estimate soil hydraulic parameters: A synthetic study. <b>2022</b> , 127817             |     | 1 |
| 419 | Characterization of spatio-temporal distributions of wave-induced pore pressure in a non-cohesive seabed: Amplitude-attenuation and phase-lag. <b>2022</b> , 253, 111315        |     | 0 |
| 418 | CO2 zonal injection rate allocation and plume extent evaluation through wellbore temperature analysis. <b>2022</b> , 164, 104203  |     | 1 |
| 417 | Effect of tree demography and flexible root water uptake for modeling the carbon and water cycles of Amazonia. <b>2022</b> , 469, 109969  |     | 2 |
| 416 | A Testing Method for Measurement of Permeability Coefficient and Soil-Water Characteristic Curve of Unsaturated Soil Based on the Axis Translation Technique. <b>2022</b> , 27, |     | 0 |
| 415 | Climate sensitivity of soil water regime of different Hungarian Chernozem soil subtypes. <b>2009</b> , 64, 496  |     |   |
| 414 | Impact of expected climate change on soil water regime under different vegetation conditions. <b>2014</b> , 69, 1510  |     |   |
| 413 | Table1.DOCX. <b>2018</b> ,  |     |   |
| 412 | Table2.DOCX. <b>2018</b> ,  |     |   |
| 411 | Table3.DOCX. <b>2018</b> ,  |     |   |
| 410 | Table4.DOCX. <b>2018</b> ,  |     |   |
| 409 | Table5.DOCX. <b>2018</b> ,  |     |   |
| 408 | Temperature effects of soil hydraulic properties. <b>2022</b> ,   |     |   |
| 407 | Interaction Simulation of Vadose Zone Water and Groundwater in Cele Oasis: Assessment of the Impact of Agricultural Intensification, Northwestern China. <b>2022</b> , 12, 641  |     |   |
| 406 | A comprehensive experimental and numerical analysis of water flow and travel time in a highly heterogeneous vadose zone. <b>2022</b> , 127875                                   |     | 1 |

- 405 Numerical investigation of the influence of banded sand ditches on water infiltration in fine-textured soil.. **2022**, 85, 2693-2709
- 404 Identifying optimal monitoring strategies to predict soil hydraulic characteristics and water contents by inverse modeling. **2022**, 20, e1201
- 403 Modeling Wicking Fabric Inhibition Effect on Frost Heave. **2022**, 12, 4357
- 402 Numerical Analysis of the Influence of Block-Stone Embankment Filling Height on the Water, Temperature, and Deformation Distributions of Subgrade in Permafrost Regions. **2022**, 14, 1382 1
- 401 A Bayesian sequential updating approach to predict phenology of silage maize. **2022**, 19, 2187-2209 0
- 400 Numerical Implementation of Three-Dimensional Nonlinear Strength Model of Soil and Its Application in Slope Stability Analysis. **2022**, 14, 5127 1
- 399 HyPix: 1D physically based hydrological model with novel adaptive time-stepping management and smoothing dynamic criterion for controlling NewtonâRaphson step. **2022**, 105386 0
- 398 Numerical analysis of cover systems for mining waste in tropical regions. 1-20 0
- 397 Numerical Analysis of Infiltration in One-Dimensional Unsaturated SoilâGeotextile Column.
- 396 Numerical study of the impact of climate conditions on stability of geocomposite and geogrid reinforced soil walls. **2022**, 1 1
- 395 Coupled modelling of hydrological processes and grassland production in two contrasting climates. **2022**, 26, 2277-2299 0
- 394 Long-term field performance of non-vegetated and vegetated three-layer landfill cover systems using construction waste without geomembrane. 1-69 1
- 393 Influence of Gate Dams on Yellow River Delta Wetlands. **2022**, 11, 706 0
- 392 Study on thermal performances of a horizontal ground heat exchanger geothermal system with different configurations and arrangements. **2022**, 1 1
- 391 Assessing soil system changes under climate-smart agriculture via farmersâobservations and conventional soil testing. 1 1
- 390 Experimental and numerical investigation on rainwater management of dual substrate layer green roofs using biochar-amended soil. 1
- 389 Pore-pressure wave and diffusion induced by fluid-mass sources in partially saturated porous media. **2022**, 164, 104218
- 388 HeapSim2D âA 2D axisymmetric model of heap leaching under drip emitters I. Hydrology and solute transport. **2022**, 183, 107555 1

- 387 Simulating water lateral inflow and its contribution to spatial variations of rainfed wheat yields. **2022**, 137, 126515 1
- 386 Effect of flow-independent viscosity on the propagation behavior of Rayleigh wave in partially saturated soil based on the fractional standard linear solid model. **2022**, 147, 104763 0
- 385 Analyzing the Effects of Irrigation on the Sensitivity and Estimability of Soil Hydraulic Parameters. **2022**, 148, 1
- 384 Influence of Unsaturated Hydraulic Properties on Transient Seepage and Stability Analysis of an Earthen Dam. **2022**, 22, 1
- 383 Land surface temperature assimilation into a soil moisture-temperature model for retrieving farm-scale root zone soil moisture. **2022**, 421, 115923 0
- 382 Vertical dynamic response of a floating pile in unsaturated poroelastic media based on the fictitious unsaturated soil pile model. **2022**, 109, 209-228 0
- 381 Maize cropping degrades soil hydraulic properties relative to grazed pasture in two contrasting soils. **2022**, 421, 115912 0
- 380 Assessment on the thermal and moisture migration of sand-based materials coupled with kaolin additive. 1 0
- 379 On infiltration and infiltration characteristic times. *Water Resources Research*, 5-4 0
- 378 Development of a New Pedotransfer Function Addressing Limitations in Soil Hydraulic Models and Observations. *Water Resources Research*, 5-4 1
- 377 Numerical modelling of the application of capillary barrier systems for prevention of rainfall-induced slope instability. 0
- 376 A novel frequency-domain integrated sensor for in-situ estimating unsaturated soil hydraulic conductivity. **2022**, 610, 127939 0
- 375 A flexible soil-water characteristic curve model considering physical constraints of parameters. **2022**, 305, 106717 0
- 374 Drying of mortar at ambient temperature studied using high resolution neutron tomography and numerical modeling. **2022**, 131, 104586 0
- 373 Numerical Slope Stability Analysis of Deep Excavations Under Rainfall Infiltration. 0
- 372 Oxygen propagation fronts in porous media under evaporative conditions at the soil/atmosphere interface: Lab-scale experiments and model-based interpretation. *Water Resources Research*, 5-4 0
- 371 Modeling and monitoring of foam propagation in highly permeable porous media under lateral water flow. **2022**, 104225 0
- 370 Determination of Soil Hydraulic Properties from Infiltration Data Using Various Methods. **2022**, 11, 779 1

- 369 Non-isothermal two-phase flow in deformable porous media: systematic open-source implementation and verification procedure. **2022**, 8, 0
- 368 Field evaluation of an explicit infiltration function for conventional and alternate furrow irrigation.
- 367 Effect of threshold suction on the prediction of the permeability function by using the statistical method. **2022**, 14, 100456
- 366 Beware of Scaling Artefacts and Implicit Model Characteristics when Fitting Soil Water Release and Moisture Capacity Data
- 365 A lattice Boltzmann exploration of two-phase displacement in 2D porous media under various pressure boundary conditions. **2022**, 2
- 364 WaSim model for subsurface drainage design using soil hydraulic parameters estimated by pedotransfer functions. **2022**, 12,
- 363 Numerical evaluation of temporal moisture variations in unbound pavements with thin seals. **2022**, 35, 100787 1
- 362 A bimodal extension of the ARYA&PARIS approach for predicting hydraulic properties of structured soils. **2022**, 610, 127980
- 361 Optimization of winter irrigation management for salinized farmland using a coupled model of soil water flow and crop growth. **2022**, 270, 107747
- 360 Modeling effectiveness of two runoff mitigation measures in the Netherlands. **2022**, 839, 156190 0
- 359 STUDY ON PORE CONNECTIVITY COEFFICIENT OF CRUSHED SHELL PARTICLES FOR CAPILLARY BARRIER OF SOIL. **2022**, 78, 153-164
- 358 Analysis of Coupled Seepage and Temperature Fields of Fractured Porous Rock Mass under Brine&liquid Nitrogen Freezing. **2022**, 10, 787 0
- 357 An Improved Empirical Model for Estimating the Geometry of the Soil Wetting Front with Surface Drip Irrigation. **2022**, 14, 1827 1
- 356 Simulation of dilatancy-controlled gas migration processes in saturated bentonite using a coupled multiphase flow and elastoplastic H2M model. **2022**,
- 355 Representation of the Influence of Soil Structure on Hydraulic Conductivity Prediction.
- 354 Thermo-Hydro-Mechanical Coupling Model of Unsaturated Soil Based on Modified VG Model and Numerical Analysis. 10, 0
- 353 Permeability Models of Hydrate-Bearing Sediments: A Comprehensive Review with Focus on Normalized Permeability. **2022**, 15, 4524 1
- 352 Evolution and spatio-temporal characteristics of slope erosion due to rainfall in Southwest China. **2022**, 81, 0

- 351 Morphological controls on surface runoff: an interpretation of steady-state energy patterns, maximum power states and dissipation regimes within a thermodynamic framework. **2022**, 26, 3125-3150 0
- 350 Long-Term Performance of the Water Infiltration and Stability of Fill Side Slope against Wetting in Expressways. **2022**, 12, 5809 0
- 349 Inverse unsaturated-zone flow modeling for groundwater recharge estimation: a regional spatial nonstationary approach. 0
- 348 Elastodynamic analyses of transversely isotropic unsaturated subgrade-pavement system under moving loads. 0
- 347 Whole-Plant Water Use and Hydraulics of *Populus euphratica* and *Tamarix ramosissima* Seedlings in Adaption to Groundwater Variation. **2022**, 14, 1869 0
- 346 Numerical investigation of the stability of landslide-affected slopes in Kerala, India, under extreme rainfall event. 3
- 345 The design criterion for capillary barrier cover in multi-climate regions. **2022**, 149, 33-41 0
- 344 Numerical Study of Landfill Gas Emissions through Three Earthen Landfill Covers. **2022**, 148, 0
- 343 Vertical vibration of a rigid strip footing on a half-space of unsaturated porous soil. **2022**, 148, 104840 0
- 342 Modeling heat and mass transfer during artificial ground freezing considering the influence of water seepage. **2022**, 194, 123053 1
- 341 Finite element analysis of heat and mass transfer in unsaturated freezing soils: Formulation and verification. **2022**, 149, 104848 0
- 340 Enhanced Recyclability of Waste Plastics for Waterproof Cementitious Composites with Polymer-Nanosilica Hybrids. 0
- 339 Applications. **2022**, 229-241 0
- 338 Reservoir scale CO<sub>2</sub>-water-rock interactions and geochemical evolution of sandstone reservoirs due to CO<sub>2</sub> geo-storage process. **2022**, 0
- 337 Quality of Soil Simulation by the INM RAS-MSU Soil Scheme as a Part of the SL-AV Weather Prediction Model. **2022**, 47, 159-173 1
- 336 Experimental study on the water retention behavior of intact loess under mechanical wetting and hydraulic wetting. 0
- 335 Failure mechanisms and risk mitigation of check dams on the Chinese Loess Plateau: A case study at the Gutun Gully. **2022**, 19, 1509-1524 0
- 334 Discrete Bubble Flow in Granular Porous Media via Multiphase Computational Fluid Dynamic Simulation. 10, 1

- 333 Modeling unsaturated hydraulic conductivity of granular soils using a combined discrete element and pore-network approach.
- 332 Possible Effects of Multiphase Methane Evolution During a Glacial Cycle on Underpressure Development in Sedimentary Basins: An Analysis With Application to the Northeast Michigan Basin. **2022**, 127,
- 331 Destabilisation of Seawall Ground by Ocean Waves. 1-68 2
- 330 Numerical Modeling of Water Transport in Ultra-High-Performance Fiber-Reinforced Concrete. **2023**, 90-99
- 329 Bulk and Rayleigh Waves Propagation in Three-Phase Soil with Flow-Independent Viscosity. **2022**, 12, 7166
- 328 Semi-analytical solutions for soil consolidation induced by drying.
- 327 A dual-continuum model (TOUGH2) for characterizing flow and discharge in a mechanically disrupted sandstone overburden.
- 326 Soil-plant interactions modulated water availability of Swiss forests during the 2015 and 2018 droughts. 2
- 325 Effect of soil saturation and grain size on coupled hydrothermal flow in fine sands based on X-ray  $\mu$ CT imaging. **2022**, 100380
- 324 Field-scale compression of Sphagnum moss to improve water retention in a restored bog. **2022**, 128160
- 323 A comparative and modeled approach for three biochar materials in simultaneously preventing the migration and reducing the bioaccessibility of heavy metals in soil: Revealing immobilization mechanisms. **2022**, 119792 1
- 322 Numerical investigation on light non-aqueous phase liquid flow in the vadose zone considering porosity effects on soil hydraulic properties. 0
- 321 Assessment and application of an alternative formula to describe the hydraulic conductivity over the full moisture range. **2022**, 36, 1
- 320 Early warning model and model test verification of rainfall-induced shallow landslide. **2022**, 81,
- 319 Correspondence between theory and practice of a Beerkan infiltration experiment.
- 318 Assessing the Effects of Plant Roots on Soil Water Infiltration Using Dyes and Hydrus-1D. **2022**, 13, 1095 1
- 317 Assessment of traditional rainwater harvesting system in barren lands of a semi-arid region: A case study of Rajasthan (India). **2022**, 42, 101149
- 316 A robust fully mixed finite element model for flow and transport in unsaturated fractured porous media. **2022**, 166, 104259 0

- 315 Assessment and prediction of coastal saline soil improvement effects combining substrate amendments and salt barrier materials in typical region of the Yangtze River Delta. **2022**, 223, 105483
- 314 Mineralogy and pore size distribution of clayey Oxisols with granular structure and the effect of management systems. **2022**, 223, 105479
- 313 Stability Analysis of Inhomogeneous Slopes in Unsaturated Soils Optimized by a Genetic Algorithm. **2022**, 22, 1
- 312 Quantifying annual occurrence probability of rainfall-induced landslide at a specific slope. **2022**, 149, 104877 0
- 311 Quantifying soil physical quality by using indicators and pore volume-function characteristics of the gypsiferous soils in Iraq. **2022**, 30, e00556
- 310 A combined model approach to optimize surface irrigation practice: SWAP and WinSRFR. **2022**, 271, 107741 0
- 309 Analytical solution for torsional vibration of an end-bearing pile in nonhomogeneous unsaturated soil. **2022**, 57, 104863
- 308 TRANSIENT ADSORPTION BEHAVIOR OF GEOTEXTILES AMENDED BY CALCIUM/MAGNESIUM OXIDES AGENT CONSIDERING THEIR WATER RETENTION PROPERTIES. **2021**, 36, 125-132
- 307 Investigating Scale Effects in Soil Water Retention Curve via Spatial Time Domain Reflectometry. **2022**, 128238 3
- 306 Field Implementation of Microbially Induced Calcium Carbonate Precipitation for Surface Erosion Reduction of a Coastal Plain Sandy Slope. **2022**, 148, 1
- 305 Characterization of Moisture Movement in Water Absorbing Polymer-Soil System: Horizontal Absorption Method. **2022**, 34,
- 304 First-order Continuation Method for Steady-State Variably Saturated Groundwater Flow Modeling. **2022**, 43, 924-934
- 303 Modeling Agricultural Hydrology and Water Productivity to Enhance Water Management in the Arid Irrigation District of China. **2022**, 104-133 0
- 302 A new model for plugging hydraulic fractures of tight sandstone reservoirs. **2022**, 15,
- 301 Engineering Disaster Investigation and Recurrence of the Covering Effect in a Petroleum and Gas Station in Seasonally Frozen Soil Region. **2022**, 2022, 1-13
- 300 Numerical investigation on hydraulic and gas flow response of MSW landfill cover system comprising a geosynthetic clay liner under arid climatic conditions. **2022**, 1
- 299 Simulation of water flow in a tailings pile at the former uranium mine at Le Cellier (Lozère, France).
- 298 The effect of pore geometry in constitutive hysteretic models for unsaturated water flow.

- 297 Use of centrifugal systems for investigating water flow processes in unsaturated soils. **2022**, 12,
- 296 On the uncertainty induced by pedotransfer functions in terrestrial biosphere modeling. 2
- 295 Modelling water fluxes to improve banana irrigation scheduling and management in Magdalena, Colombia. 0
- 294 Innovative Overview of SWRC Application in Modeling Geotechnical Engineering Problems. **2022**, 6, 69 1
- 293 Parametric Analysis of Rainfall-Induced Loess Soil Slope Due to the Rainwater Infiltration. **2022**, 6, 54
- 292 Evaluation of machine learning algorithms in the prediction of hydraulic conductivity and soil moisture at the Brazilian Savannah. **2022**, e00569 0
- 291 Study on safety and stability of high altitude dump under severe drying-wetting alternation. **2022**, 17, e0273365
- 290 Pore-scale analytic model to calculate the suction stress in partially saturated soils.
- 289 Hydraulic conductivity function of unsaturated soil over a wide suction range.
- 288 Influence of hillslope flow on hydroclimatic evolution under climate change.
- 287 Convergence Criterion for Highly Nonlinear Unsaturated Seepage Analysis. **2023**, 295-332
- 286 Parametric Sensitivity to Capillary Entry Pressure in Two-Phase Water-Gas Flow Models: Deep Geologic Disposal of Radioactive Waste.
- 285 Changes in Physicochemical Properties of Typical Subtropical Soils under Different Treated Domestic Wastewater Irrigation Modes. **2022**, 14, 10197 0
- 284 Improved lumped-parameter and numerical modeling of unsaturated water flow and stable water isotopes.
- 283 Techniques for Measuring Hydraulic Properties for Unsaturated Soils. **2023**, 79-129
- 282 Estimating the Soil-Water Retention Curve of Arsenic-Contaminated Soil by Fitting Fuentes' Model and Their Comparison with the Filter Paper Method. **2022**, 12, 7793
- 281 Models for predicting the soil-water characteristic curves for coarse and fine-grained soils. **2022**, 612, 128248 0
- 280 Utility trenches: sinks or barriers? Modeling the fate of leaked water in a crowded subsurface. **2022**, 612, 128303

- 279 Saturated and unsaturated seepage analysis of earth-fill dams using fractal hydraulic conductivity function and its verification. **2022**, 612, 128302 ○
- 278 Dynamic effect of water penetration on steel corrosion in carbonated mortar: A neutron imaging, electrochemical, and modeling study. **2022**, 9, 100043 1
- 277 Modeling response of spring wheat yield to soil water and salt contents and its application in scheduling brackish water irrigation. **2022**, 200, 107216
- 276 Development of a slope digital twin for predicting temporal variation of rainfall-induced slope instability using past slope performance records and monitoring data. **2022**, 308, 106825 1
- 275 The impacts of climate change and cropping systems on soil water recovery in the 0–500 cm soil profile after alfalfa. **2022**, 272, 107878
- 274 Control of Viral and Bacterial Contamination of Lettuce by Subsurface Drip Irrigation. **2022**, 148, ○
- 273 Subsurface irrigation with ceramic emitters: Evaluating soil water effects under multiple precipitation scenarios. **2022**, 272, 107851 1
- 272 Generalized hydraulic constitutive model of unsaturated flow in heterogeneous soils. **2022**, 151, 104985
- 271 Site-specific irrigation scheduling using one-layer soil hydraulic properties and inverse modeling. **2022**, 273, 107877 1
- 270 The Dutch soil physical units map: BOFEK. **2022**, 427, 116123
- 269 Relative permeability of two-phase flow through rough-walled fractures: Effect of fracture morphology and flow dynamics. **2022**, 613, 128326 ○
- 268 A Bayesian perspective on the information content of soil water measurements for the hydrological characterization of the vadose zone. **2022**, 613, 128429 ○
- 267 Climate and management impacts on crop growth and evapotranspiration in the North China Plain based on long-term eddy covariance observation. **2022**, 325, 109147 ○
- 266 Coupling soil/atmosphere interactions and geochemical processes: A multiphase and multicomponent reactive transport approach. **2022**, 169, 104303 ○
- 265 Stochastic Merging of Soil Hydraulic Properties for Vadose Zone Hydrological Modeling. **2022**, 27, ○
- 264 Effect of highly saturated superhydrophilic porous media on air gap diffusion distillation considering preferential flow. **2022**, 542, 116084 ○
- 263 Surface soil water content as an indicator of Hass avocado irrigation scheduling. **2022**, 273, 107864 ○
- 262 Capability of HYDRUS wetland module to simulate flow and nitrogen removal processes in pilot-scale treatment peatlands under frost and no-frost conditions. **2022**, 184, 106790 ○

|     |   |   |
|-----|---|---|
| 261 | Dynamic response of pile embedded in unsaturated soil under SH waves considering effect of superstructure. <b>2022</b> , 541, 117278  | 1 |
| 260 | Modeling strategies to balance salt leaching and nitrogen loss for drip irrigation with saline water in arid regions. <b>2022</b> , 274, 107943   | 0 |
| 259 | Microstructure and moisture transport in carbonated cement-based materials incorporating cellulose nanofibrils. <b>2022</b> , 162, 106990   | 0 |
| 258 | Towards the influences of three types of biocrusts on soil water in drylands: Insights from horizontal infiltration and soil water retention. <b>2022</b> , 428, 116136                                   | 0 |
| 257 | Numerical simulations of high viscosity DNAPL recovery in highly permeable porous media under isothermal and non-isothermal conditions. <b>2022</b> , 251, 104073   | 0 |
| 256 | Influence of subgrade filling types on covering effect in seasonally frozen soil area. <b>2022</b> , 39, 59-66  | 0 |
| 255 | METHOD FOR ESTIMATING SEEPAGE ANALYSIS MODEL INCLUDING BOUNDARY CONDITION USING MERGING PARTICLE FILTER. <b>2022</b> , 10, 368-380  | 0 |
| 254 | EURADWASTEâ2 Paper âHost rocks and THMC processes in DGR. <b>2022</b> , 8, 21   | 0 |
| 253 | LSTM-based model predictive control with discrete actuators for irrigation scheduling. <b>2022</b> , 55, 334-339  | 2 |
| 252 | Knowledge-based optimal irrigation scheduling of three-dimensional agro-hydrological systems. <b>2022</b> , 55, 441-446   | 0 |
| 251 | EFFECT OF INFILTRATION CHARACTERISTICS OF EARTH MATERIALS ON CAPILLARY BARRIER PERFORMANCE. <b>2022</b> , 78, 180-196   | 0 |
| 250 | Forward and inverse modeling of water flow in unsaturated soils with discontinuous hydraulic conductivities using physics-informed neural networks with domain decomposition. <b>2022</b> , 26, 4469-4495 | 0 |
| 249 | Analyzing dual porosity in soil hydraulic properties using soil databases for pedotransfer function development. <b>2022</b> , 21,  | 1 |
| 248 | Soil water isotherm model for particle surface sorption and interlamellar sorption. <b>2022</b> , 21,   | 0 |
| 247 | Global mapping of volumetric water retention at 100, 330 and 15 000´cm suction using the WoSIS database. <b>2022</b> ,  | 0 |
| 246 | Examination of effective foundation drainage work against seepage failure of river embankments on highly permeable foundation ground. <b>2022</b> , 17, 433-449   | 0 |
| 245 | ??&lt;/bold&gt;-&lt;/bold&gt;??&lt;/bold&gt;-&lt;/bold&gt;?????????????. <b>2022</b> ,  | 0 |
| 244 | Field-based assessment of the design of lysimeters for landfill final cover seepage control.  | 0 |

- 243 Effect of a Superabsorbent Polymer (Poly-Gamma-Glutamic Acid) on Water and Salt Transport in Saline Soils under the Influence of Multiple Factors. **2022**, 14, 4056 ○
- 242 Effects of Enzymatically Induced Carbonate Precipitation on Capillary Pressure Saturation Relations. **2022**, 12, 1186 ○
- 241 Numerical analysis on hydrothermal process around oil pipeline in permafrost regions of Qinghai-Tibet Plateau. ○
- 240 Hydro-mechanical analysis of a braced foundation pit affected by rainfall and excavation in unsaturated soils. ○
- 239 Measuring and Validating the Actual Evaporation and Soil Moisture Dynamic in Arid Regions under Unirrigated Land Using Smart Field Lysimeters and Numerical Modeling. **2022**, 14, 2787 ○
- 238 Distinguishing and quantifying the fate of nitrate in irrigation water and nitrate produced by ammonium nitrification. ○
- 237 Evaluation of the applicability of the root water uptake model on alpine meadows and analysis of root water uptake characteristics. 10, ○
- 236 Modeling of nitrate and ammonium leaching and crop uptake under wastewater application considering nitrogen cycle in the soil. ○
- 235 Changes in the salt concentration distribution in surface water (seawater) due to seawater recirculation in a porous medium under tidal fluctuations. **2022**, 104090 ○
- 234 The Effect of Plug Height and Inflow Rate on Water Flow Characteristics in Furrow Irrigation. **2022**, 12, 2225 ○
- 233 Assessment of probability of failure on rainfall-induced shallow landslides at slope scale using a physical-based model and fuzzy point estimate method. 10, ○
- 232 Physiological responses of tomato plants subjected to various combinations of irrigation levels with mineral and organomineral sources of phosphorus. **2022**, 44, ○
- 231 Influence of Snowpack Cold Content on Seasonally Frozen Ground and Its Hydrologic Consequences: A Case Study From Niwot Ridge, CO. **2022**, 58, ○
- 230 Reactive Transport Modeling of Mineral Precipitation and Carbon Trapping in Discrete Fracture Networks. **2022**, 58, 1
- 229 Required strength of geosynthetic-reinforced soil structures subjected to varying water levels using numeric-based kinematic analysis. **2022**, ○
- 228 Estimating SWRC parameters and unsaturated hydraulic permeability by improved Jaya and hybrid improved jaya optimization algorithms. ○
- 227 A comprehensive review on coupled processes and mechanisms of soil-vegetation-hydrology, and recent research advances. ○
- 226 Spatial Control of Microbial Pesticide Degradation in Soil: A Model-Based Scenario Analysis. ○

|     |  |   |
|-----|--|---|
| 225 | Development of a vadose zone advanced monitoring system: Tools to assess groundwater vulnerability.  | 0 |
| 224 | Thermal-Hydro-Mechanical coupled analysis of unsaturated frost susceptible soils. <b>2022,</b>   | 0 |
| 223 | Biofertilizers and Silicon fertilization as a sustainable option for maize production.   | 0 |
| 222 | Analysis of a landfill cover without geomembrane using varied particle sizes of recycled concrete. <b>2022,</b>  | 0 |
| 221 | Method for indirect determination of soil parameters for numerical simulation of dikes and earth dams. <b>2022,</b> 12,  | 0 |
| 220 | Clues of wildfire-induced geotechnical changes in volcanic soils affected by post-fire slope instabilities. <b>2022,</b> 81,   | 0 |
| 219 | Numerical Investigation of Compressive Stress and Wettability Effects on Fluid Transport in Polymer Electrolyte Membrane Fuel Cell Porous Layers. 2201028                              | 0 |
| 218 | Modeling of Weather-Induced Volumetric Changes in Cracked Expansive Clays.   | 1 |
| 217 | Effects of physicochemical properties and structural heterogeneity on mineral precipitation and dissolution in saturated porous media. <b>2022,</b> 146, 105474                        | 0 |
| 216 | A model for multiphase moisture and heat transport below and above the saturation point of deformable and swelling wood fibers: Mass transport. <b>2022,</b> 12, 100117                | 0 |
| 215 | Probabilistic Design of Gas Collection Systems for a Prototype Bioreactor. <b>2022,</b> 8,   | 0 |
| 214 | Numerical investigation of salt-frost damage of pervious concrete at the scale of a few aggregates. <b>2022,</b> 162, 106971   | 1 |
| 213 | Numerical investigation of the couplings between strain localisation processes and gas migrations in clay materials. <b>2022,</b> 256, 111974  | 0 |
| 212 | Hydro-thermal impacts on near-field flow and transport in a shale-hosted nuclear waste repository. <b>2022,</b> 130, 104765  | 0 |
| 211 | Field and numerical evaluation of breakthrough suction effects in lysimeter design. 1-14   | 0 |
| 210 | Differential response of plant transpiration to uptake of rainwater-recharged soil water for dominant tree species in the semiarid Loess Plateau. <b>2022,</b> 26, 4995-5013           | 0 |
| 209 | Comportamento da permeabilidade no saturada em camada de cobertura de aterro sanitrio no semirido brasileiro. <b>2022,</b> 27, 1049-1057  | 0 |
| 208 | Perennial Groundwater Zone Formation Processes in Thin Organic Soil Layers Overlying Thick Clayed Mineral Soil Layers in a Small Serpentine Headwater Catchment. <b>2022,</b> 14, 3122 | 0 |

|     |  |   |
|-----|--|---|
| 207 | Large-Scale Assessment of Soil Physical Quality of Rural Settlements in the Southeast of Goiás, Brazil. <b>2022</b> , 2022, 1-6                          | 0 |
| 206 | A novel double disc method to determine soil hydraulic properties from drainage experiments with tension gradients. <b>2022</b> , 128625                 | 0 |
| 205 | Efficient time-variant reliability analysis of Bazimen landslide in the Three Gorges Reservoir Area using XGBoost and LightGBM algorithms. <b>2022</b> , | 1 |
| 204 | Water Retention Characteristics of Mineral Forest Soils in Finland: Impacts for Modeling Soil Moisture. <b>2022</b> , 13, 1797                           | 0 |
| 203 | Construction of root tip density function and root water uptake characteristics in alpine meadows. 13,   | 0 |
| 202 | Low sensitivity of three terrestrial biosphere models to soil texture over the South American tropics. <b>2022</b> , 15, 7573-7591                       | 0 |
| 201 | Physical properties of soils under conservation agriculture: A multi-site experiment on five soil types in south-western France. <b>2022</b> , 116228    | 0 |
| 200 | A robust upwind mixed hybrid finite element method for transport in variably saturated porous media. <b>2022</b> , 26, 5227-5239                         | 0 |
| 199 | An appraisal on the soil wetting water retention characteristic curve determined from mini disk infiltrometer and sensor measurements.                   | 0 |
| 198 | Modeling shallow soil moisture dynamics in mountainous landslide active regions. 10,   | 0 |
| 197 | Development of irrigation schedule and management model for sustaining optimal crop production under agricultural drought.                               | 0 |
| 196 | Properties governing flow of solution and air through crushed ore for heap leaching: Part II unsaturated dual-phase flow. <b>2022</b> , 105990           | 0 |
| 195 | Experimental and numerical analysis to assess the substrate hydraulic properties and the retention capacity of a green wall module. 1-11                 | 0 |
| 194 | Enhanced recyclability of waste plastics for waterproof cementitious composites with polymer-nanosilica hybrids. <b>2022</b> , 111338                    | 0 |
| 193 | Study on rust layer distribution of cracked segment at tunnel arch waist under stray current and chloride ion corrosion.                                 | 0 |
| 192 | Plant available water capacity of soils at regional scale: Analysis of fixed and dynamic field capacity. <b>2022</b> ,                                   | 1 |
| 191 | Slope Stability Analysis Method of Unsaturated Soil Slopes Considering Pore Gas Pressure Caused by Rainfall Infiltration. <b>2022</b> , 12, 11060        | 0 |
| 190 | Evaluation of parameterisation approaches for estimating soil hydraulic parameters with HYDRUS-1D in the groundnut basin of Senegal.                     | 0 |

- 189 Quantifying subsurface parameter and transport uncertainty using surrogate modelling and environmental tracers. **2022**, 36, ○
- 188 Modeling the Frequency-Dependent Effective Excess Charge Density in Partially Saturated Porous Media. **2022**, 127, ○
- 187 Irida: A machine learning based code for the automated derivation of site-specific rock type logs and their properties using Kimeleon colourlith image logs. **2022**, 16, 100102 ○
- 186 A radioecological model with moisture-dependent Kd: Application to 129I and 79Se natural release to a grassland. **2022**, 255, 107043 ○
- 185 Efficient stochastic analysis of unsaturated slopes subjected to various rainfall intensities and patterns. **2023**, 14, 101490 1
- 184 Numerical Evaluation of the Effect of Drainage Wells on the Stability of the Ichiba No. 1 Landslide During an Mj6.7 Earthquake. **2022**, 573-600 ○
- 183 Inverse estimation of hydraulic parameters of soils with rock fragments. **2023**, 429, 116240 ○
- 182 PHYSICAL-HYDRAULIC ATTRIBUTES AS INDICATORS OF FUNCTIONALITY OF SOIL PORES UNDER DIFFERENT COMPACTION LEVELS. **2022**, 35, 884-893 ○
- 181 The Large-Scale Hydraulic Conductivity for Gravitational Fingering Flow in Unsaturated Homogenous Porous Media: A Review and Further Discussion. **2022**, 14, 3660 ○
- 180 Modeling and Evaluating Soil Salt and Water Transport in a Cultivated Land-Wasteland Lake System of Hetao, Yellow River Basin Upper Reaches. **2022**, 14, 14410 ○
- 179 An LSTM-based mixed-integer model predictive control for irrigation scheduling. ○
- 178 Investigations of Unsaturated Slopes Subjected to Rainfall Infiltration Using Numerical Approaches—A Parametric Study and Comparative Review. **2022**, 14, 14465 1
- 177 Hydrogeophysical characterization and determination of petrophysical parameters by integrating geophysical and hydrogeological data at the limestone vadose zone of the Beauce aquifer. **2022**, 128725 ○
- 176 Sensitivity of Travelling Wave Solution to Richards Equation to Soil Material Property Functions. **2022**, 145, 789-812 ○
- 175 Nitrogen fertilization value of compost and dried dung in soils with contrasting synthetic nitrogen fertilization histories. ○
- 174 Simulating and applying the water retention on organic substrates through a simple linear approach. ○
- 173 Aerobic respiration controls on shale weathering. **2022**, ○
- 172 Critical soil moisture thresholds of plant water stress in terrestrial ecosystems. **2022**, 8, 1

- 171 Modeling heat-water-salt transport, crop growth and water use in arid seasonally frozen regions with an improved coupled SPAC model. **2022**, 615, 128703 ○
- 170 Can information on past and near-future weather and field conditions predict the safest pesticide application day?. **2022**, 203, 107454 ○
- 169 Modeling and evaluation of NAPL-impacted soil vapor intrusion facilitated by vadose zone breathing. **2022**, 615, 128683 ○
- 168 An analytical framework on the leaching potential of veterinary pharmaceuticals: A case study for the Netherlands. **2022**, 160310 ○
- 167 Evaluation the Slope Movement and Effectiveness the Remedial Measures of Volcanic Residual Soil in Yogyakarta, Indonesia. ○
- 166 Evaluation of the Temporal Moisture Variations in Flexible Pavements with Thin Seals Under Melbourne Climate. **2023**, 466-475 ○
- 165 Long-term analysis of soil water regime and nitrate dynamics at agricultural experimental site: Field-scale monitoring and numerical modeling using HYDRUS-1D. **2023**, 275, 108039 1
- 164 Employment of hydraulic model and social media data for flood hazard assessment in an urban city. **2022**, 44, 101261 ○
- 163 Variably saturated dual-permeability flow modeling to assess distributed infiltration and vadose storage dynamics of a karst aquifer âThe Western Mountain Aquifer in Israel and the West Bank. **2023**, 18, 100143 ○
- 162 Effectiveness of Design and Implementation Alternatives for Stormwater Control Measures Modeled at the Watershed Scale. **2023**, 9, ○
- 161 Upscaling a chemical screening approach to assess impacts of shale, tight and deep gas development on unconfined aquifers. **2023**, 45, 101296 1
- 160 Modeling maize water consumption and growth under plastic film mulch using an agro-hydrological model: Searching for the optimal plant density in different hydrological years. **2023**, 276, 108048 ○
- 159 Effect of Infiltration on Single-Pile and MonopileâRaft Foundation Embedded in Unsaturated Sand. **2023**, 23, ○
- 158 Water use of short-rotation coppice American sycamore (*Platanus occidentalis* L.) for bioenergy during establishment on marginal land in the North Carolina Piedmont. **2023**, 276, 108071 ○
- 157 Soil hydraulic properties and pore dynamics under different tillage and irrigated crop sequences. **2023**, 430, 116293 ○
- 156 Optimized number of suction cups required to predict annual nitrate leaching under varying conditions in Denmark. **2023**, 328, 116964 ○
- 155 Imaging of unsaturated moisture flow inside cracked porous brick using electrical capacitance volume tomography. **2023**, 64, 105626 1
- 154 Multi-geophysical Field Measurements to Characterize Lithological and Hydraulic Properties of a Multi-scale Karstic and Fractured Limestone Vadose Zone: Beauce Aquifer (O-ZNS). **2022**, 461-484 ○

- 153 Influence of the presence of clay and water on the efficiency of soil vapor extraction in sand laboratory columns. **2022**, 33, 63-76 ○
- 152 Hydro-mechanical coupling effect on water permeability of intensely weathered sandstone. ○
- 151 A bio-hydro-chemical model for gas pressure development in municipal solid waste landfills. 1-43 ○
- 150 Vertical dynamic response of pipe pile embedded in unsaturated soil based on fractional-order standard linear solid model and Rayleigh-Love rod model. ○
- 149 Numerical solutions to unsteady filtration problems in hydraulic engineering. **2022**, 1478-1487 ○
- 148 Pyrene and lead transport in unsaturated soil at two different water saturations. 1-16 ○
- 147 Two-phase model for the excavation analysis in partially saturated soft soils using the particle finite element method. ○
- 146 Use of satellite-based phenometrics, geophysical soil data and a semi-distributed agro-hydrological model for variable-rate irrigation management in a maize farm in northern Italy. **2022**, ○
- 145 Numerical modeling of one-dimensional variably saturated flow in a homogeneous and layered soil-water system via mixed form Richards equation with Picard iterative scheme. 1
- 144 Stable expression and control parameters in the numerical simulation of unsaturated flow. ○
- 143 Assessing a potential site for offshore CO<sub>2</sub> storage in the Weixinan Sag in the northwestern Beibu Gulf Basin (BGB), northern South China Sea. ○
- 142 Polynomial chaos surrogate and bayesian learning for coupled hydro-mechanical behavior of soil slope. **2022**, 100023 ○
- 141 Fertigation Strategies to Improve Water and Nitrogen Use Efficiency in Surface Irrigation System in the North China Plain. **2023**, 13, 17 ○
- 140 A new model of temperature-dependent permeability coefficient and simulating of pipe leakage produced immersion of loess foundation. **2023**, 82, ○
- 139 Impact of beach face slope variation on saltwater intrusion dynamics in unconfined aquifer under tidal boundary condition. **2022**, 102298 ○
- 138 Estimation of Hydraulic Parameters in a Heterogeneous Low-lying Farmland Near Venice. ○
- 137 X-ray Microtomography for Investigating Pore Space and Its Relation to Water Retention and Conduction in Highly Weathered Soils. **2023**, 13, 28 ○
- 136 Hydrodynamics of non-equilibrium soil water retention. ○

- 135 Macropores and burial of dissolved organic matter affect nitrate removal in intertidal aquifers. **2022**, 129011 0
- 134 Quantitative Prediction Method of Liquid Retention Based on Nuclear Magnetic Resonance. **2022**, 36, 14954-14961 0
- 133 Factors Influencing the Thermo-Hydro-Mechanical Behavior of Unstabilized Rammed Earth Walls. **2022**, 15, 8821 0
- 132 Hydrodynamics of the Vadose Zone of a Layered Soil Column. **2023**, 15, 221 1
- 131 Temperature effects on the hydraulic properties of unsaturated rooted soils. 0
- 130 The distribution of Van Genuchten model parameters on soil-water characteristic curves in Chinese Loess Plateau and new predicting method on unsaturated permeability coefficient of loess. **2023**, 18, e0278307 1
- 129 Modelling Soil Water Dynamics. **2023**, 129-152 0
- 128 Experimental Study and Prediction of Water Retention Curves of an Unsaturated Kaolin. 0
- 127 A Wetting-Front Model for Vadose Zone Infiltration via Drywells. **2023**, 59, 0
- 126 Soil-water characteristic curve of unsaturated collapsible soils. **2023**, 32, 0
- 125 Effect of the Wetting Hydraulic Property of Soil on 1-D Water Infiltration. **2023**, 15, 1822 0
- 124 Water level variation at a beaver pond significantly impacts net CO<sub>2</sub> uptake of a continental bog. **2023**, 27, 213-227 0
- 123 Quantification of Evapotranspiration by Calculations and Measurements Using a Lysimeter. **2023**, 15, 373 2
- 122 A (Simplified) Biogeochemical Numerical Model to Predict Saturation, Porosity and Permeability During Microbially Induced Desaturation and Precipitation. **2023**, 59, 0
- 121 Physical modeling of desiccated slopes in fine soil using a geotechnical centrifuge. 1-8 0
- 120 Concept of effective suction for describing hysteresis of multiphase pressure-saturation relationship in porous media. **2023**, 63, 101267 0
- 119 Multi-model based soil moisture simulation approach under contrasting weather conditions. **2023**, 617, 129112 0
- 118 A new analytical method to predict permeability properties of cementitious mortars: The impacts of pore structure evolutions and relative humidity variations. **2023**, 137, 104912 1

- 117 Evaluation of irrigation water saving and salinity control practices of maize and sunflower in the upper Yellow River basin with an agro-hydrological model based method. **2023**, 278, 108157 ○
- 116 Foam Flow Model of Municipal Solid Waste and Its Application in Landfill Gas Pressure Prediction. **2023**, 149, ○
- 115 Modelling hydro-mechanical coupled behaviour of unsaturated soil with two-phase two-point material point method. **2023**, 155, 105224 ○
- 114 A comparison of physical-based and machine learning modeling for soil salt dynamics in crop fields. **2023**, 277, 108115 ○
- 113 Mathematical Modeling of the Process of Soil Freezing of Railway Subgrade in Cold Climate Con-ditions. **2022**, 19, 820-831 ○
- 112 Numerical Analysis of Groundwater Effects on the Stability of an Abandoned Shallow Underground Coal Mine. **2023**, 15, 529 ○
- 111 Interactions between Intrinsic Soil Properties and Deep Tillage in the Sustainable Management of Perennial Crops. **2023**, 15, 760 ○
- 110 Procedure for the Development of a System of Mathematical Models of the Vadose Zone and the Saturated Zone for Forecasting Pollution Migration from a Near-Surface Source to the Discharge Zone. **2022**, 49, S101-S112 ○
- 109 Investigation of the Dynamic Response in a One-Dimensional Partially Saturated Poroelastic Medium. **2023**, 215-225 ○
- 108 The effects of rain and evapotranspiration statistics on groundwater recharge estimations for semi-arid environments. **2023**, 27, 289-302 ○
- 107 Water-table response to extreme precipitation events. **2023**, 129140 ○
- 106 Development of High-Resolution Soil Hydraulic Parameters with Use of Earth Observations for Enhancing Root Zone Soil Moisture Product. **2023**, 15, 706 1
- 105 Design of open drains by solving Richards equation and artificial neural networks. **2023**, 102192 ○
- 104 Long-term agro-hydrological simulations of soil water dynamic and maize yield in a tillage chronosequence under subtropical climate conditions. **2023**, 229, 105654 ○
- 103 Numerical investigations into the physical significance of sorptivity for cement-based materials considering water sensitivity. **2023**, 66, 105952 ○
- 102 Porosity and pore-size distribution. **2023**, ○
- 101 A Comparative Study on the Stability Analysis of Tailings Pond Embankments Under Transient and Steady-State Seepage Conditions. **2023**, 357-368 ○
- 100 A novel unsaturated drainage layer in capillary barrier cover for slope protection. **2023**, 82, ○

- 99 Analysis of a Shallow Footing Resting on Compacted Unsaturated Embankment under Infiltration. **2023**, ○
- 98 Brief communication: Monitoring active layer dynamics using a lightweight nimble ground-penetrating radar system in a laboratory analogue test case. **2023**, 17, 1271-1277 ○
- 97 The Primacy of Temporal Dynamics in Driving Spatial Self-organization of Soil Redox Patterns. ○
- 96 Impacts of climate change on soil desiccation in planted forests with different tree ages: A case study in the Loess Plateau of China. **2023**, 148, 110073 ○
- 95 The unsaturated seepage process and mechanism of internal interfaces in loess-filled slopes during intermittent rainfall. **2023**, 619, 129317 ○
- 94 Effect of water application methods on salinity leaching efficiency in different textured soils based on laboratory measurements and model simulations. **2023**, 281, 108250 ○
- 93 Modeling water and nitrogen dynamics and crop growth of saline maize farmland in Northwest China: Searching for appropriate irrigation and N fertilization strategies. **2023**, 282, 108271 ○
- 92 Thermo-hydrological modeling of temperature variations in the spring waters of a headwater catchment (Strengbach critical zone Observatory in France). **2023**, 620, 129463 ○
- 91 Numerical modelling of settlement of municipal solid waste in landfills coupled with effects of biodegradation. **2023**, 163, 108-121 ○
- 90 Modelling preferential flow induced by dynamic changes of desiccation cracks: A comparative numerical study. **2023**, 433, 116471 ○
- 89 Experimental investigation of water retention curves of municipal solid wastes with different paper contents, dry unit weights and degrees of biodegradation. **2023**, 163, 73-84 ○
- 88 Effect of low-permeability layers on vadose well recharge rates. **2023**, 21, 100938 ○
- 87 Mechanistic insights into the migration behavior of cadmium (Cd) in the soil and groundwater systems at a construction site: Experimental and numerical analysis. **2023**, 11, 109712 ○
- 86 Peatland dynamics: A review of process-based models and approaches. **2023**, 877, 162890 ○
- 85 Numerical evaluation of thermal stability of a W-shaped crushed-rock embankment with shady and sunny slopes in warm permafrost regions. **2023**, 144, 106754 ○
- 84 Measurement and modelling of dynamic fluid saturation in carbon reinforcements. **2023**, 169, 107520 ○
- 83 Salts dynamics in maize irrigation in the Hetao plateau using static water table lysimeters and HYDRUS-1D with focus on the autumn leaching irrigation. **2023**, 283, 108306 ○
- 82 Estimation of Hydraulic Parameters from the Soil Water Characteristic Curve. **2023**, 15, 6714 ○

|    |  |   |
|----|--|---|
| 81 | Probabilistic back analysis of rainfall-induced slope failure considering slope survival records from past rainfall events. <b>2023</b> , 159, 105436  | o |
| 80 | Efficient screening of locations with the best pressure dissemination potential in geological CO2 storage reservoirs with lithological heterogeneity. <b>2023</b> , 226, 211787                      | o |
| 79 | Towards the effects of moss-dominated biocrusts on surface soil aeration in drylands: Air permeability analysis and modeling. <b>2023</b> , 223, 106942  | o |
| 78 | Unsaturated bearing capacity of strip foundations by using the upper bound rigid block method. <b>2023</b> , 156, 105260   | o |
| 77 | DEVELOPING A VERTICAL QUASI-TWO-DIMENSIONAL SUBSURFACE FLOW MODEL. <b>2022</b> , 78, I_751-I_756   | o |
| 76 | High greenhouse gas emissions after grassland renewal on bog peat soil. <b>2023</b> , 331, 109309  | o |
| 75 | Coupled Two-Phase Flow and Elastodamage Modeling of Laboratory and In Situ Gas Injection Experiments in Saturated Claystone as a Potential Host Rock for Nuclear Waste Repository. <b>2023</b> , 23, | o |
| 74 | A Comparison of Hydrological and Geophysical Calibration Data in Layered Hydrologic Models of Mountain Hillslopes. <b>2023</b> , 59,   | o |
| 73 | Strategies of Parameter Optimization and Soil Moisture Sensor Deployment for Accurate Estimation of Evapotranspiration Through a Data-driven Method. <b>2023</b> , 331, 109354                       | o |
| 72 | Water deficit as a trigger to immature soybean pod opening.  | o |
| 71 | Experimental and numerical investigation of moisture variations in unbound pavements with sprayed seals during drying and wetting. <b>2023</b> , 39, 100951  | o |
| 70 | Effect of vapour transport on soil evaporation under different soil textures and water table depths in an arid area of Northwest China. <b>2023</b> , 37,  | o |
| 69 | Evaluation of a general model for multimodal unsaturated soil hydraulic properties. <b>2023</b> , 71, 22-34  | o |
| 68 | Revisiting of a Three-Parameter One-Dimensional Vertical Infiltration Equation. <b>2023</b> , 10, 43   | o |
| 67 | Improved Calculation of Hydraulic Conductivity for Small Disk Tension Infiltrimeters. <b>2023</b> , 59,  | o |
| 66 | Modeling hypersalinity caused by evaporation and surfaceâsubsurface exchange in a coastal marsh. <b>2023</b> , 618, 129268   | o |
| 65 | A Review of HYDRUS 2D/3D Applications for Simulations of Water Dynamics, Root Uptake and Solute Transport in Tree Crops under Drip Irrigation. <b>2023</b> , 15, 741                                 | 1 |
| 64 | Benchmarking water and salt dynamics at subterranean estuaries using TOUGHREACT. <b>2023</b> , 618, 129271   | o |

- 63 Soil hydraulic conductivity in the state of nonequilibrium. **2023**, 22, ○
- 62 Effects of dynamic changes of desiccation cracks on preferential flow: experimental investigation and numerical modeling. **2023**, 27, 783-808 ○
- 61 Study of the groundwater regime in unsaturated slopes prone to landslides by multidisciplinary investigations: Experimental study and numerical modelling. **2023**, 315, 107045 ○
- 60 Mesh-independent multidimensional coupling of surface and subsurface water flow models. **2023**, 38, 37-45 ○
- 59 Modeling Soil Water Retention Under Different Pressures Using Adaptive Neuro-Fuzzy Inference System. **2023**, 37, 1519-1538 ○
- 58 Response and prediction of unsaturated permeability of loess to microstructure. **2023**, 9, ○
- 57 Probabilistic Slope Seepage Analysis under Rainfall Considering Spatial Variability of Hydraulic Conductivity and Method Comparison. **2023**, 15, 810 ○
- 56 Numerical Simulation of Soil Water Dynamics and Agricultural Production in Reclaiming Coastal Areas Using Subsurface Pipe Drainage. **2023**, 13, 588 ○
- 55 Simulation of water balance and irrigation strategy of typical sand-layered farmland in the Hetao Irrigation District, China. **2023**, 280, 108236 ○
- 54 Two Models to Describe the Entire Soil Water Retention Curve. ○
- 53 Direct measurement of unsaturated permeability of kaolin-sand mixtures. **2023**, 82, ○
- 52 Automated Low-Cost Soil Moisture Sensors: Trade-Off between Cost and Accuracy. **2023**, 23, 2451 ○
- 51 Modelling of soil water characteristic curve for diverse soils using soil suction parameters. ○
- 50 Mixed formulation for an easy and robust numerical computation of sorptivity. **2023**, 27, 895-915 ○
- 49 Revisiting Salvucci's Semi-analytical Solution for Bare Soil Evaporation with New Consideration of Vapour Diffusion and Film Flow. **2023**, 147, 463-493 ○
- 48 Success and challenges of avalanche prediction using numerical snowpack model. **2014**, 76, 411-419 ○
- 47 Review of Modeling for Liquid Water Movement in the Snowpack. **2017**, 79, 483-495 ○
- 46 Observations and simulations of wetting front velocity into dry snow. **2017**, 79, 511-524 ○

- 45 Simulations of water flow through heterogeneous snowpack with dimple pattern. **2013**, 75, 429-439 ○
- 44 Representation of the influence of soil structure on hydraulic conductivity prediction. **2023**, 619, 129330 ○
- 43 A Richards equation-based model for wave-resolving simulation of variably-saturated beach groundwater flow dynamics. **2023**, 619, 129344 ○
- 42 Effect of CO<sub>2</sub> Injection on the Multiphase Flow Properties of Reservoir Rock. **2023**, 147, 429-461 ○
- 41 Evapotranspiration in Semi-Arid Climate: Remote Sensing vs. Soil Water Simulation. **2023**, 23, 2823 ○
- 40 Modeling CO<sub>2</sub> Geologic Storage Using Machine Learning. **2023**, ○
- 39 Impact of high-permeability preferential flow zones on pumping-induced airflow in unconfined aquifer. **2023**, 37, ○
- 38 On the extinction depth of freezing-induced groundwater migration. **2023**, 619, 129358 ○
- 37 Simulation of Potassium Availability in the Application of Biochar in Agricultural Soil. **2023**, 13, 784 ○
- 36 A Family of Soil Water Retention Models Based on Sigmoid Functions. **2023**, 59, ○
- 35 Water productivity and production of grape tomatoes under different irrigation regimes controlled by modeled substrate matric potential. ○
- 34 Dynamic Relative Permeabilities for Partially Saturated Porous Media Accounting for Viscous Coupling Effects: An Analytical Solution. **2023**, 147, 653-677 ○
- 33 Multiple Non-linear Reservoirs to Model Water Balance Components in Sandy Soils. **2023**, 41-67 ○
- 32 An Anisotropic hp-mesh Adaptation Method for Time-Dependent Problems Based on Interpolation Error Control. **2023**, 95, ○
- 31 Estimating the Specific Yield and Groundwater Level of an Unconfined Aquifer Using Time-Lapse Electrical Resistivity Imaging in the Pingtung Plain, Taiwan. **2023**, 15, 1184 ○
- 30 Capillary Pressure in Unsaturated Food Systems: Its Importance and Accounting for It in Mathematical Models. ○
- 29 Upgraded closed-form soil hydraulic functions from oven dryness to saturation. **2023**, 37, ○
- 28 Predicting Concentration- and Ionic-Strength-Dependent Air-Water Interfacial Partitioning Parameters of PFASs Using Quantitative Structure-Property Relationships (QSPRs). **2023**, 57, 5203-5215 ○

- 27 Simulation of Soil Water Movement and Root Uptake under Mulched Drip Irrigation of Greenhouse Tomatoes. **2023**, 15, 1282 ○
- 26 Semi-continuum modeling of unsaturated porous media flow to explain Bauters' paradox. **2023**, 27, 1279-1300 ○
- 25 Mechanical degradation of unstabilized rammed earth (URE) wall under salts and rising damp attack effect. ○
- 24 Pedotransfer functions and their application to soil water dynamics. **2023**, ○
- 23 Water-retention properties of xanthan-gum-biopolymer-treated soils. 1-12 ○
- 22 Numerical Experiments for Surfactant Infiltration in the Vadose Zone to Demonstrate Concentration-Dependent Capillarity, Viscosity, and Sorption Characteristics. **2023**, 13, 104 ○
- 21 Estimating vadose zone water fluxes from soil water monitoring data: a comprehensive field study in Austria. **2023**, 27, 1431-1455 ○
- 20 Migration of ammonium nitrogen in ion-absorbed rare earth soils during and post in situ mining: a column study and numerical simulation analysis. **2023**, 17, ○
- 19 A data-driven approach to assess the role of the groundwater conditions in triggering shallow landslides initiating with frictional failure. ○
- 18 Sets of infiltration models for water infiltration in sustainable urban drainage systems. **2023**, 129477 ○
- 17 Prediction of the soil-water characteristic curves for the fine-grained soils with different initial void ratios. ○
- 16 Effect of residual plastic film on infiltration of one-dimensional soil columns under drip irrigation. 1-14 ○
- 15 Simulating Soil Atmosphere Exchanges and CO<sub>2</sub> Fluxes for an Ongoing Peat Extraction Site. ○
- 14 Soil-vegetation-water interactions controlling solute flow and chemical weathering in volcanic ash soils of the high Andes. **2023**, 27, 1507-1529 ○
- 13 Adaptive Trait Variation in Seedlings of Rare Endemic Mexican Spruce Provenances under Nursery Conditions. **2023**, 14, 790 ○
- 12 Analysis of Soil-Water Characteristics and Stability Evolution of Rainfall-Induced Landslide: A Case of the Siwan Village Landslide. **2023**, 14, 808 ○
- 11 Prediction of the absolute hydraulic conductivity function from soil water retention data. **2023**, 27, 1565-1582 ○
- 10 Influence of Clay Content on CO<sub>2</sub>-Rock Interaction and Mineral-Trapping Capacity of Sandstone Reservoirs. **2023**, 16, 3489 ○

- 9 Desiccation cracks prediction using a 3D finite elements model. 1-15 ○
- 8 Development and calibration of the FSPM CPlantBox to represent the interactions between water and carbon fluxes in the soil-plant-atmosphere continuum. ○
- 7 Application of GIS-based DRASTIC model and its validation with Solute Transport Model in the assessment of groundwater vulnerability index: A case study from coal mining region of India. ○
- 6 Predicting the chemo-thermo-hydro-mechanical behaviors of cement stabilized rammed earth materials from the design stage. **2023**, 56, ○
- 5 The effects of water table fluctuation on LNAPL deposit in highly permeable porous media: A coupled numerical and experimental study. **2023**, 104183 ○
- 4 Comparison of the Soil Water, Vapor, and Heat Dynamics between Summer Maize and Bare Fields in Arid and Semi-Arid Areas. **2023**, 13, 1171 ○
- 3 Water use, soil water balance and soil salinization risks of Mediterranean tree orchards in southern Portugal under current climate variability: Issues for salinity control and irrigation management. **2023**, 283, 108319 ○
- 2 Water and heat exchange responses to flooding and local storm events in the hyporheic zone driven by a meandering bend. **2023**, 883, 163732 ○
- 1 Stability Assessment of a Tailings Pond Considering the Effect of Staged Construction and Embankment Raising Rate: a Numerical Study. ○