

Shlomo P Neuman

List of Publications by Year in descending order

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papers

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87723

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#	ARTICLE	IF	CITATIONS
1	Estimation of Aquifer Parameters Under Transient and Steady State Conditions: 1. Maximum Likelihood Method Incorporating Prior Information. <i>Water Resources Research</i> , 1986, 22, 199-210.	1.7	728
2	Universal scaling of hydraulic conductivities and dispersivities in geologic media. <i>Water Resources Research</i> , 1990, 26, 1749-1758.	1.7	568
3	Estimation of Aquifer Parameters Under Transient and Steady State Conditions: 2. Uniqueness, Stability, and Solution Algorithms. <i>Water Resources Research</i> , 1986, 22, 211-227.	1.7	410
4	Theory of flow in unconfined aquifers considering delayed response of the water table. <i>Water Resources Research</i> , 1972, 8, 1031-1045.	1.7	391
5	Perspective on theories of non-Fickian transport in heterogeneous media. <i>Advances in Water Resources</i> , 2009, 32, 670-680.	1.7	329
6	Analysis of pumping test data from anisotropic unconfined aquifers considering delayed gravity response. <i>Water Resources Research</i> , 1975, 11, 329-342.	1.7	306
7	Effect of partial penetration on flow in unconfined aquifers considering delayed gravity response. <i>Water Resources Research</i> , 1974, 10, 303-312.	1.7	289
8	Saturated-Unsaturated Seepage by Finite Elements. <i>Journal of Hydraulic Engineering</i> , 1973, 99, 2233-2250.	0.2	243
9	Prediction of steady state flow in nonuniform geologic media by conditional moments: Exact nonlocal formalism, effective conductivities, and weak approximation. <i>Water Resources Research</i> , 1993, 29, 341-364.	1.7	239
10	Generalized scaling of permeabilities: Validation and effect of support scale. <i>Geophysical Research Letters</i> , 1994, 21, 349-352.	1.5	234
11	Calibration of distributed parameter groundwater flow models viewed as a multiple-objective decision process under uncertainty. <i>Water Resources Research</i> , 1973, 9, 1006-1021.	1.7	233
12	Estimation of Aquifer Parameters Under Transient and Steady State Conditions: 3. Application to Synthetic and Field Data. <i>Water Resources Research</i> , 1986, 22, 228-242.	1.7	233
13	Eulerian-Lagrangian Theory of transport in space-time nonstationary velocity fields: Exact nonlocal formalism by conditional moments and weak approximation. <i>Water Resources Research</i> , 1993, 29, 633-645.	1.7	226
14	Multifaceted nature of hydrogeologic scaling and its interpretation. <i>Reviews of Geophysics</i> , 2003, 41, .	9.0	205
15	Maximum likelihood Bayesian averaging of spatial variability models in unsaturated fractured tuff. <i>Water Resources Research</i> , 2004, 40, .	1.7	172
16	Nonlocal and localized analyses of conditional mean steady state flow in bounded, randomly nonuniform domains: 1. Theory and computational approach. <i>Water Resources Research</i> , 1999, 35, 2999-3018.	1.7	145
17	Field Determination of the Three-Dimensional Hydraulic Conductivity Tensor of Anisotropic Media: 2. Methodology and Application to Fractured Rocks. <i>Water Resources Research</i> , 1985, 21, 1667-1676.	1.7	140
18	Field determination of the hydraulic properties of leaky multiple aquifer systems. <i>Water Resources Research</i> , 1972, 8, 1284-1298.	1.7	129

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19	Three-dimensional numerical inversion of pneumatic cross-hole tests in unsaturated fractured tuff: 2. Equivalent parameters, high-resolution stochastic imaging and scale effects. <i>Water Resources Research</i> , 2001, 37, 3019-3041.	1.7	125
20	Field Determination of the Three-dimensional Hydraulic Conductivity Tensor of Anisotropic Media: 1. Theory. <i>Water Resources Research</i> , 1985, 21, 1655-1665.	1.7	121
21	Scaling of random fields by means of truncated power variograms and associated spectra. <i>Water Resources Research</i> , 1997, 33, 1075-1085.	1.7	120
22	Bayesian analysis of data-worth considering model and parameter uncertainties. <i>Advances in Water Resources</i> , 2012, 36, 75-85.	1.7	113
23	Three-dimensional saturated-unsaturated flow with axial symmetry to a partially penetrating well in a compressible unconfined aquifer. <i>Water Resources Research</i> , 2007, 43, .	1.7	99
24	Transient flow in bounded randomly heterogeneous domains: 1. Exact conditional moment equations and recursive approximations. <i>Water Resources Research</i> , 1998, 34, 1-12.	1.7	98
25	Nonlocal and localized analyses of conditional mean steady state flow in bounded, randomly nonuniform domains: 2. Computational examples. <i>Water Resources Research</i> , 1999, 35, 3019-3039.	1.7	93
26	Three-dimensional numerical inversion of pneumatic cross-hole tests in unsaturated fractured tuff: 1. Methodology and borehole effects. <i>Water Resources Research</i> , 2001, 37, 3001-3017.	1.7	89
27	Non-local and localized analyses of non-reactive solute transport in bounded randomly heterogeneous porous media: Theoretical framework. <i>Advances in Water Resources</i> , 2006, 29, 1238-1255.	1.7	88
28	Type curve interpretation of a cross-hole pneumatic injection test in unsaturated fractured tuff. <i>Water Resources Research</i> , 2001, 37, 583-603.	1.7	70
29	Transient effective hydraulic conductivities under slowly and rapidly varying mean gradients in bounded three-dimensional random media. <i>Water Resources Research</i> , 1998, 34, 21-32.	1.7	60
30	Use of variable-scale pressure test data to estimate the log hydraulic conductivity covariance and dispersivity of fractured granites near Oracle, Arizona. <i>Journal of Hydrology</i> , 1988, 102, 475-501.	2.3	59
31	Anisotropy, lacunarity, and upscaled conductivity and its autocovariance in multiscale random fields with truncated power variograms. <i>Water Resources Research</i> , 1999, 35, 2891-2908.	1.7	58
32	Transport in multiscale log conductivity fields with truncated power variograms. <i>Water Resources Research</i> , 1998, 34, 963-973.	1.7	56
33	Stochastic continuum modeling of flow and transport in a crystalline rock mass: Fanay-Augère, France, revisited. <i>Hydrogeology Journal</i> , 2003, 11, 521-535.	0.9	49
34	Improved forward and inverse analyses of saturated-unsaturated flow toward a well in a compressible unconfined aquifer. <i>Water Resources Research</i> , 2010, 46, .	1.7	49
35	Nonlocal and localized analyses of nonreactive solute transport in bounded randomly heterogeneous porous media: Computational analysis. <i>Advances in Water Resources</i> , 2006, 29, 1399-1418.	1.7	47
36	Flow in multiscale log conductivity fields with truncated power variograms. <i>Water Resources Research</i> , 1998, 34, 975-987.	1.7	46

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37	Type-Curve Interpretation of Multirate Single-Hole Pneumatic Injection Tests in Unsaturated Fractured Rock. <i>Ground Water</i> , 2000, 38, 899-911.	0.7	46
38	On the geostatistical characterization of hierarchical media. <i>Water Resources Research</i> , 2008, 44, .	1.7	42
39	Multimodel Bayesian analysis of groundwater data worth. <i>Water Resources Research</i> , 2014, 50, 8481-8496.	1.7	38
40	Transient flow in bounded randomly heterogeneous domains: 2. Localization of conditional mean equations and temporal nonlocality effects. <i>Water Resources Research</i> , 1998, 34, 13-20.	1.7	35
41	Sub-Gaussian model of processes with heavy-tailed distributions applied to air permeabilities of fractured tuff. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 195-207.	1.9	35
42	Saturated-unsaturated flow to a well with storage in a compressible unconfined aquifer. <i>Water Resources Research</i> , 2011, 47, .	1.7	34
43	Multimodel Bayesian analysis of data-worth applied to unsaturated fractured tuffs. <i>Advances in Water Resources</i> , 2012, 35, 69-82.	1.7	31
44	Numerical investigation of apparent multifractality of samples from processes subordinated to truncated fBm. <i>Hydrological Processes</i> , 2012, 26, 2894-2908.	1.1	29
45	Relationship between juxtaposed, overlapping, and fractal representations of multimodal spatial variability. <i>Water Resources Research</i> , 2003, 39, .	1.7	28
46	Effects of Peclet number on pore-scale mixing and channeling of a tracer and on directional advective porosity. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	25
47	Anisotropic Scaling of Berea Sandstone Log Air Permeability Statistics. <i>Vadose Zone Journal</i> , 2013, 12, 1-15.	1.3	25
48	New scaling model for variables and increments with heavy-tailed distributions. <i>Water Resources Research</i> , 2015, 51, 4623-4634.	1.7	25
49	Maximum likelihood Bayesian averaging of airflow models in unsaturated fractured tuff using Occam and variance windows. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 863-880.	1.9	24
50	Flow to a Well in a Five-Layer System with Application to the Oxnard Basin. <i>Ground Water</i> , 2007, 45, 672-682.	0.7	19
51	Recent advances in scalable non-Gaussian geostatistics: The generalized sub-Gaussian model. <i>Journal of Hydrology</i> , 2018, 562, 685-691.	2.3	19
52	Apparent/spurious multifractality of absolute increments sampled from truncated fractional Gaussian/Lévy noise. <i>Geophysical Research Letters</i> , 2010, 37, n/a-n/a.	1.5	18
53	Extended power-law scaling of self-affine signals exhibiting apparent multifractality. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
54	Apparent multifractality and scale-dependent distribution of data sampled from self-affine processes. <i>Hydrological Processes</i> , 2011, 25, 1837-1840.	1.1	17

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55	Theoretical analysis of non-Gaussian heterogeneity effects on subsurface flow and transport. <i>Water Resources Research</i> , 2017, 53, 2998-3012.	1.7	16
56	On the tensorial nature of advective porosity. <i>Advances in Water Resources</i> , 2005, 28, 149-159.	1.7	15
57	Blueprint for perturbative solution of flow and transport in strongly heterogeneous composite media using fractal and variational multiscale decomposition. <i>Water Resources Research</i> , 2006, 42, .	1.7	15
58	Recent Advances in Statistical and Scaling Analysis of Earth and Environmental Variables. , 2013, , 1-25.		14
59	Simulation and analysis of scalable non-Gaussian statistically anisotropic random functions. <i>Journal of Hydrology</i> , 2015, 531, 88-95.	2.3	13
60	Comment on "Spatial correlation of permeability in cross-stratified sediment with hierarchical architecture" by Robert W. Ritzi, Zhenxue Dai, David F. Dominic, and Yoram N. Rubin. <i>Water Resources Research</i> , 2006, 42, .	1.7	5
61	Comment on "The unique scaling of aquifer macrodispersivity supported by field data" by A. Zech et al.. <i>Water Resources Research</i> , 2016, 52, 4199-4202.	1.7	4
62	Shlomo P. Neuman: A Brief Autobiography. <i>Ground Water</i> , 2008, 46, 164-169.	0.7	3
63	Twenty Lessons Drawn From My Subsurface Hydrology Career. <i>Perspectives of Earth and Space Scientists</i> , 2020, 1, e2020CN000131.	0.2	1