Walter A Illman

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Hydraulic tomography in fractured granite: Mizunami Underground Research site, Japan. Water Resources Research, 2009, 45, .	4.2	182
2	Threeâ€dimensional transient hydraulic tomography in a highly heterogeneous glaciofluvial aquiferâ€aquitard system. Water Resources Research, 2011, 47, .	4.2	118
3	Steady-state hydraulic tomography in a laboratory aquifer with deterministic heterogeneity: Multi-method and multiscale validation of hydraulic conductivity tomograms. Journal of Hydrology, 2007, 341, 222-234.	5.4	115
4	Comparison of aquifer characterization approaches through steady state groundwater model validation: A controlled laboratory sandbox study. Water Resources Research, 2010, 46, .	4.2	93
5	Practical Issues in Imaging Hydraulic Conductivity through Hydraulic Tomography. Ground Water, 2008, 46, 120-132.	1.3	84
6	Type curve interpretation of a cross-hole pneumatic injection test in unsaturated fractured tuff. Water Resources Research, 2001, 37, 583-603.	4.2	70
7	Comparison of Hydraulic Tomography with Traditional Methods at a Highly Heterogeneous Site. Ground Water, 2015, 53, 71-89.	1.3	68
8	Capturing aquifer heterogeneity: Comparison of approaches through controlled sandbox experiments. Water Resources Research, 2011, 47, .	4.2	67
9	What does hydraulic tomography tell us about fractured geological media? A field study and synthetic experiments. Journal of Hydrology, 2015, 531, 17-30.	5.4	58
10	Three-dimensional imaging of aquifer and aquitard heterogeneity via transient hydraulic tomography at a highly heterogeneous field site. Journal of Hydrology, 2018, 559, 392-410.	5.4	57
11	On the importance of geological data for hydraulic tomography analysis: Laboratory sandbox study. Journal of Hydrology, 2016, 542, 156-171.	5.4	56
12	Transient hydraulic tomography in a fractured dolostone: Laboratory rock block experiments. Water Resources Research, 2012, 48, .	4.2	54
13	Incorporating geologic information into hydraulic tomography: A general framework based on geostatistical approach. Water Resources Research, 2017, 53, 2850-2876.	4.2	53
14	An Application of Hydraulic Tomography to a Largeâ€6cale Fractured Granite Site, Mizunami, Japan. Ground Water, 2016, 54, 793-804.	1.3	52
15	On the importance of geological data for three-dimensional steady-state hydraulic tomography analysis at a highly heterogeneous aquifer-aquitard system. Journal of Hydrology, 2017, 544, 640-657.	5.4	48
16	Should hydraulic tomography data be interpreted using geostatistical inverse modeling? A laboratory sandbox investigation. Water Resources Research, 2015, 51, 3219-3237.	4.2	42
17	A Reducedâ€Order Successive Linear Estimator for Geostatistical Inversion and its Application in Hydraulic Tomography. Water Resources Research, 2018, 54, 1616-1632.	4.2	42
18	Validation of hydraulic tomography in an unconfined aquifer: A controlled sandbox study. Water Resources Research, 2015, 51, 4137-4155.	4.2	32

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#	Article	IF	CITATIONS
19	Comparative study of transient hydraulic tomography with varying parameterizations and zonations: Laboratory sandbox investigation. Journal of Hydrology, 2017, 554, 758-779.	5.4	31
20	Geostatistical reduced-order models in underdetermined inverse problems. Water Resources Research, 2013, 49, 6587-6600.	4.2	29
21	Exploitation of pump-and-treat remediation systems for characterization of hydraulic heterogeneity. Journal of Hydrology, 2019, 573, 324-340.	5.4	29
22	Asymptotic Analysis of Cross-Hole Hydraulic Tests in Fractured Granite. Ground Water, 2006, 44, 555-563.	1.3	28
23	Analysis of permeability scaling within single boreholes. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	17
24	Three-dimensional hydraulic tomography analysis of long-term municipal wellfield operations: Validation with synthetic flow and solute transport data. Journal of Hydrology, 2020, 590, 125438.	5.4	16
25	The importance of fracture geometry and matrix data on transient hydraulic tomography in fractured rocks: Analyses of synthetic and laboratory rock block experiments. Journal of Hydrology, 2021, 601, 126700.	5.4	14
26	Automatic estimation of aquifer parameters using long-term water supply pumping and injection records. Hydrogeology Journal, 2016, 24, 1443-1461.	2.1	13
27	Large-scale three-dimensional hydraulic tomography analyses of long-term municipal wellfield operations. Journal of Hydrology, 2022, 610, 127911.	5.4	8
28	An Analytical Method to Calculate Groundwater Released From an Aquitard Undergoing Nonlinear Consolidation. Water Resources Research, 2020, 56, e2020WR027320.	4.2	6
29	Interpretation of pressure recovery data from packer inflation. Water Resources Research, 2004, 40, .	4.2	3
30	A New Inverse Modeling Approach for Hydraulic Conductivity Estimation Based on Gaussian Mixtures. Water Resources Research, 2020, 56, e2019WR026531.	4.2	3
31	Hydraulic tomography analysis of municipal-well operation data with geology-based groundwater models. Hydrogeology Journal, 2021, 29, 1979-1997.	2.1	3
32	Accelerating Groundwater Data Assimilation with a Gradientâ€Free Active Subspace Method. Water Resources Research, 0, , e2021WR029610.	4.2	2
33	An Algorithm for Hydraulic Tomography Based on a Mixture Model. Lecture Notes in Computer Science, 2019, , 471-486.	1.3	1