Allen M Shapiro

List of Publications by Year
in descending order

59	2,369	218677	214800
papers	citations	26	47
		h-index	g-index

67	67	67	1555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tracer transport in fractured crystalline rock: Evidence of nondiffusive breakthrough tailing. Water Resources Research, 2000, 36, 1677-1686.	4.2	259
2	A solute flux approach to transport in heterogeneous formations: 1. The general framework. Water Resources Research, 1992, 28, 1369-1376.	4.2	198
3	Stochastic analysis of solute arrival time in heterogeneous porous media. Water Resources Research, 1988, 24, 1711-1718.	4.2	160
4	A solute flux approach to transport in heterogeneous formations: 2. Uncertainty analysis. Water Resources Research, 1992, 28, 1377-1388.	4.2	136
5	Interpreting tracer breakthrough tailing from different forced-gradient tracer experiment configurations in fractured bedrock. Water Resources Research, 2003, 39, .	4.2	136
6	Mass arrival of sorptive solute in heterogeneous porous media. Water Resources Research, 1990, 26, 2057-2067.	4.2	134
7	Effective matrix diffusion in kilometer-scale transport in fractured crystalline rock. Water Resources Research, 2001, 37, 507-522.	4.2	121
8	How Good Are Estimates of Transmissivity from Slug Tests in Fractured Rock?. Ground Water, 1998, 36, 37-48.	1.3	73
9	Stochastic analysis of one€dimensional steady state unsaturated flow: A Comparison of Monte Carlo and Perturbation Methods. Water Resources Research, 1983, 19, 121-133.	4.2	70
10	Bacterial Transport Experiments in Fractured Crystalline Bedrock. Ground Water, 2003, 41, 682-689.	1.3	70
11	Movement of Road Salt to a Small New Hampshire Lake. Water, Air, and Soil Pollution, 1999, 109, 179-206.	2.4	68
12	Effect of cell physicochemical characteristics and motility on bacterial transport in groundwater. Journal of Contaminant Hydrology, 2004, 69, 195-213.	3.3	64
13	Assessing the Vulnerability of a Municipal Well Field to Contamination in a Karst Aquifer. Environmental and Engineering Geoscience, 2005, 11, 319-331.	0.9	61
14	Assessing the validity of the channel model of fracture aperture under field conditions. Water Resources Research, 1989, 25, 817-828.	4.2	46
15	Cautions and Suggestions for Geochemical Sampling in Fractured Rock. Ground Water Monitoring and Remediation, 2002, 22, 151-164.	0.8	45
16	Steady state fluid response in fractured rock: A boundary element solution for a coupled, discrete fracture continuum model. Water Resources Research, 1983, 19, 959-969.	4.2	39
17	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 3. Use of microspheres to estimate the transport potential of <i>Cryptosporidium parvum</i> oocysts. Water Resources Research, 2008, 44, .	4.2	36
18	Effects of simplifying fracture network representation on inert chemical migration in fracture€controlled aquifers. Water Resources Research, 2009, 45, .	4.2	36

#	Article	IF	Citations
19	A new collocation method for the solution of the convection-dominated transport equation. Water Resources Research, 1979, 15, 1177-1182.	4.2	35
20	Simulation of steady-state flow in three-dimensional fracture networks using the boundary-element method. Advances in Water Resources, 1985, 8, 106-110.	3.8	34
21	Crosswell seismic investigation of hydraulically conductive, fractured bedrock near Mirror Lake, New Hampshire. Journal of Applied Geophysics, 2002, 50, 299-317.	2.1	34
22	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 1. Revised conceptualization of groundwater flow. Water Resources Research, 2008, 44, .	4.2	32
23	Solute advection in stratified formations. Water Resources Research, 1989, 25, 1283-1289.	4.2	31
24	Mantle helium in ground waters of eastern North America: Time and space constraints on sources. Geology, 1995, 23, 675.	4.4	31
25	Radon (222Rn) in Ground Water of Fractured Rocks: A Diffusion/Ion Exchange Model. Ground Water, 2004, 42, 552-567.	1.3	28
26	Imaging Pathways in Fractured Rock Using Three‐Dimensional Electrical Resistivity Tomography. Ground Water, 2016, 54, 186-201.	1.3	28
27	Application of carbonate cyclostratigraphy and borehole geophysics to delineate porosity and preferential flow in the karst limestone of the Biscayne aquifer, SE Florida. , 2006, , .		27
28	Integration of stable carbon isotope, microbial community, dissolved hydrogen gas, and 2HH2O tracer data to assess bioaugmentation for chlorinated ethene degradation in fractured rocks. Journal of Contaminant Hydrology, 2014, 156, 62-77.	3.3	25
29	Analysis of an upstream weighted collocation approximation to the transport equation. Journal of Computational Physics, 1981, 39, 46-71.	3.8	24
30	Integrated multi-scale characterization of ground-water flow and chemical transport in fractured crystalline rock at the Mirror Lake Site, New Hampshire. Geophysical Monograph Series, 2007, , 201-225.	0.1	24
31	Pathogen and chemical transport in the karst limestone of the Biscayne aquifer: 2. Chemical retention from diffusion and slow advection. Water Resources Research, 2008, 44, .	4.2	23
32	Porosity and pore size distribution in a sedimentary rock: Implications for the distribution of chlorinated solvents. Journal of Contaminant Hydrology, 2017, 203, 70-84.	3.3	19
33	Interpretation of oscillatory water levels in observation wells during aquifer tests in fractured rock. Water Resources Research, 1989, 25, 2129-2137.	4.2	17
34	An exact solution of solute transport by one-dimensional random velocity fields. Stochastic Hydrology & Hydraulics, 1991, 5, 45-54.	0.5	17
35	Bioremediation in Fractured Rock: 2. Mobilization of Chloroethene Compounds from the Rock Matrix. Ground Water, 2018, 56, 317-336.	1.3	15
36	A comparison of two- and three-dimensional stochastic models of regional solute movement. Transport in Porous Media, 1990, 5, 1-25.	2.6	13

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37	Interpretation of hydraulic conductivity in a fractured-rock aquifer over increasingly larger length dimensions. Hydrogeology Journal, 2015, 23, 1319-1339.	2.1	12
38	Bioremediation in Fractured Rock: 1. Modeling to Inform Design, Monitoring, and Expectations. Ground Water, 2018, 56, 300-316.	1.3	12
39	Motion of the seawater interface in a coastal aquifer by the method of successive steady states. Journal of Hydrology, 1985, 76, 119-132.	5.4	10
40	The challenge of interpreting environmental tracer concentrations in fractured rock and carbonate aquifers. Hydrogeology Journal, 2011, 19, 9-12.	2.1	10
41	Application of Recursive Estimation to Heat Tracing for Groundwater/Surface‐Water Exchange. Water Resources Research, 2022, 58, .	4.2	10
42	Estimating formation properties from early-time recovery in wells subject to turbulent head losses. Journal of Hydrology, 1998, 208, 223-236.	5.4	9
43	Comment on "Macrodispersion in sand-shale sequences" by A. J. Desbarats. Water Resources Research, 1991, 27, 135-139.	4.2	6
44	Estimating and Forecasting Time‐Varying Groundwater Recharge in Fractured Rock: A State‐Space Formulation With Preferential and Diffuse Flow to the Water Table. Water Resources Research, 2021, 57, e2020WR029110.	4.2	6
45	Reframing groundwater hydrology as a <scp>data‐driven</scp> science. Ground Water, 2022, 60, 455-456.	1.3	6
46	Comment on "Flow and tracer transport in a single fracture: A stochastic model and its relation to some field observations" by L. Moreno et al.. Water Resources Research, 1991, 27, 129-131.	4.2	5
47	Estimating formation properties from early-time oscillatory water levels in a pumped well. Journal of Hydrology, 2000, 236, 91-108.	5.4	5
48	Interpretation of Prematurely Terminated Air-Pressurized Slug Tests. Ground Water, 1995, 33, 539-546.	1.3	4
49	In situ estimation of the effective chemical diffusion coefficient of a rock matrix in a fractured aquifer. Hydrogeology Journal, 2008, 16, 629-639.	2.1	4
50	Incorporating Snowmelt into Daily Estimates of Recharge Using a <scp>State‐Space</scp> Model of Infiltration. Ground Water, 2022, 60, 721-746.	1.3	4
51	AIRSLUG: A Fortran Program for the Computation of Type Curves to Estimate Transmissivity and Storativity from Prematurely Terminated Air-Pressurized Slug Tests. Ground Water, 1998, 36, 373-376.	1.3	3
52	Variability of organic carbon content and the retention and release of trichloroethene in the rock matrix of a mudstone aquifer. Journal of Contaminant Hydrology, 2018, 217, 32-42.	3.3	3
53	The complex spatial distribution of trichloroethene and the probability of NAPL occurrence in the rock matrix of a mudstone aquifer. Journal of Contaminant Hydrology, 2019, 223, 103478.	3.3	2
54	Contributing Areas to Domestic Wells in Dipping Sedimentary Rocks under Extreme Recharge Events. Ground Water, 2022, , .	1.3	2

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55	Physics of Flow in Geothermal Systems. Special Paper of the Geological Society of America, 1982, , 25-30.	0.5	1
56	Publishing Our â€œUgly Babiesâ€. Ground Water, 2007, 45, 655-655.	1.3	1
57	Solution of Immiscible Displacement in Porous Media Using the Collocation Finite Element Method. , 1982, , 593-602.		1
58	Reply [to â€œComment on â€˜A new collocation method for the solution of the convectionâ€dominated transport equationâ€™ by George E. Pinder and Allen Shapiroâ€]. Water Resources Research, 1980, 16, 1137-1137.	4.2	0
59	On the shape of the non-steady interface intersecting discontinuities in permeability. Advances in Water Resources, 1984, 7, 106-112.	3.8	0