Graham E Fogg

List of Publications by Year
in descending order

74 papers	4,443 citations	117625 34 h-index	110387 64 g-index
83 all docs	83 docs citations	83 times ranked	2761 citing authors

#	Article	IF	Citations
1	Transition probability-based indicator geostatistics. Mathematical Geosciences, 1996, 28, 453-476.	0.9	395
2	Modeling Spatial Variability with One and Multidimensional Continuous-Lag Markov Chains. Mathematical Geosciences, 1997, 29, 891-918.	0.9	278
3	Random-Walk Simulation of Transport in Heterogeneous Porous Media: Local Mass-Conservation Problem and Implementation Methods. Water Resources Research, 1996, 32, 583-593.	4.2	269
4	Dispersion of groundwater age in an alluvial aquifer system. Water Resources Research, 2002, 38, 16-1-16-13.	4.2	252
5	River-Aquifer Interactions, Geologic Heterogeneity, and Low-Flow Management. Ground Water, 2006, 44, 837-852.	1.3	229
6	Groundwater Flow and Sand Body Interconnectedness in a Thick, Multipleâ€Aquifer System. Water Resources Research, 1986, 22, 679-694.	4.2	196
7	Three-dimensional hydrofacies modeling based on soil surveys and transition probability geostatistics. Water Resources Research, 1999, 35, 1761-1770.	4.2	193
8	Multi-scale alluvial fan heterogeneity modeled with transition probability geostatistics in a sequence stratigraphic framework. Journal of Hydrology, 1999, 226, 48-65.	5.4	191
9	Spatial Variation in Nitrogen Isotope Values Beneath Nitrate Contamination Sources. Ground Water, 1998, 36, 418-426.	1.3	148
10	Role of Molecular Diffusion in Contaminant Migration and Recovery in an Alluvial Aquifer System. Transport in Porous Media, 2001, 42, 155-179.	2.6	143
11	Geologic heterogeneity and a comparison of two geostatistical models: Sequential Gaussian and transition probability-based geostatistical simulation. Advances in Water Resources, 2007, 30, 1914-1932.	3.8	137
12	Geologically based model of heterogeneous hydraulic conductivity in an alluvial setting. Hydrogeology Journal, 1998, 6, 131-143.	2.1	128
13	Diffusion processes in composite porous media and their numerical integration by random walks: Generalized stochastic differential equations with discontinuous coefficients. Water Resources Research, 2000, 36, 651-662.	4.2	110
14	Diffusion theory for transport in porous media: Transition-probability densities of diffusion processes corresponding to advection-dispersion equations. Water Resources Research, 1998, 34, 1685-1693.	4.2	77
15	Soil suitability index identifies potential areas for groundwater banking on agricultural lands. California Agriculture, 2015, 69, 75-84.	0.8	73
16	Connected-network paradigm for the alluvial aquifer system. , 2000, , .		63
17	Mapping Aquifer Systems with Airborne Electromagnetics in the Central Valley of California. Ground Water, 2018, 56, 893-908.	1.3	62
18	Global Groundwater Modeling and Monitoring: Opportunities and Challenges. Water Resources Research, 2021, 57, .	4.2	62

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19	A statistical approach to the inverse problem of aquifer hydrology: 2. Case study. Water Resources Research, 1980, 16, 33-58.	4.2	59
20	Debatesâ€"Stochastic subsurface hydrology from theory to practice: A geologic perspective. Water Resources Research, 2016, 52, 9235-9245.	4.2	58
21	Assessing the effectiveness of drywells as tools for stormwater management and aquifer recharge and their groundwater contamination potential. Journal of Hydrology, 2016, 539, 539-553.	5.4	57
22	Regional underpressuring in Deep Brine Aquifers, Palo Duro Basin, Texas: 1. Effects of hydrostratigraphy and topography. Water Resources Research, 1987, 23, 1481-1493.	4.2	56
23	Domestic well vulnerability to drought duration and unsustainable groundwater management in Californiaâ€™s Central Valley. Environmental Research Letters, 2020, 15, 044010.	5.2	56
24	The impact of medium architecture of alluvial settings on non-Fickian transport. Advances in Water Resources, 2013, 54, 78-99.	3.8	54
25	Managing Surface Water-Groundwater to Restore Fall Flows in the Cosumnes River. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 301-310.	2.6	51
26	Conditional Simulation of Hydrofacies Architecture. , 0, , 147-170.		50
27	Sobre-escalado eficiente de la conductividad hidrÃ¡ulica en acuÃferos aluviales heterogÃ©neos. Hydrogeology Journal, 2008, 16, 1239-1250.	2.1	47
28	Role of back diffusion and biodegradation reactions in sustaining an MTBE/TBA plume in alluvial media. Journal of Contaminant Hydrology, 2011, 126, 235-247.	3.3	47
29	Motivation of synthesis, with an example on groundwater quality sustainability. Water Resources Research, 2006, 42, .	4.2	45
30	Modeling managed aquifer recharge processes in a highly heterogeneous, semi-confined aquifer system. Hydrogeology Journal, 2019, 27, 2869-2888.	2.1	45
31	Binary upscalingâ€"the role of connectivity and a new formula. Advances in Water Resources, 2006, 29, 590-604.	3.8	44
32	Groundwater vulnerability assessment: Hydrogeologic perspective and example from Salinas Valley, California. Geophysical Monograph Series, 1999, , 45-61.	0.1	40
33	GMD perspective: The quest to improve the evaluation of groundwater representation in continental- to global-scale models. Geoscientific Model Development, 2021, 14, 7545-7571.	3.6	38
34	Nonâ€Fickian dispersion of groundwater age. Water Resources Research, 2012, 48, W07508.	4.2	36
35	Hydrogeological response to climate change in alpine hillslopes. Hydrological Processes, 2016, 30, 3126-3138.	2.6	36
36	Determining the long-term operational performance of pump and treat and the possibility of closure for a large TCE plume. Journal of Hazardous Materials, 2019, 365, 796-803.	12.4	36

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37	Groundwater Level Modeling with Machine Learning: A Systematic Review and Meta-Analysis. Water (Switzerland), 2022, 14, 949.	2.7	35
38	Review of the Integrated Groundwater and Surface-Water Model (IGSM). Ground Water, 2003, 41, 238-246.	1.3	33
39	Effect of carbon:nitrogen ratio on kinetics of phenol biodegradation byAcinetobacter johnsonii in saturated sand. Biodegradation, 1995, 6, 283-293.	3.0	31
40	Modeling groundwater contaminant transport in the presence of large heterogeneity: a case study comparing MT3D and RWhet. Hydrogeology Journal, 2019, 27, 1363-1371.	2.1	30
41	Outcrop/Subsurface Comparisons of Heterogeneity in the San Andres Formation. SPE Formation Evaluation, 1990, 5, 233-240.	0.5	29
42	Effect of Groundwater Age and Recharge Source on Nitrate Concentrations in Domestic Wells in the San Joaquin Valley. Environmental Science & Technology, 2021, 55, 2265-2275.	10.0	29
43	Regional underpressuring in Deep Brine Aquifers, Palo Duro Basin, Texas: 2. The effect of Cenozoic basin development. Water Resources Research, 1987, 23, 1494-1504.	4.2	26
44	Influence of perched groundwater on base flow. Water Resources Research, 2008, 44, .	4.2	23
45	Using groundwater age distributions to estimate the effective parameters of Fickian and non-Fickian models of solute transport. Advances in Water Resources, 2013, 54, 11-21.	3.8	23
46	Upscaling of Regional Scale Transport Under Transient Conditions: Evaluation of the Multirate Mass Transfer Model. Water Resources Research, 2019, 55, 5301-5320.	4.2	23
47	INFLUENCE OF INCISED-VALLEY-FILL DEPOSITS ON HYDROGEOLOGY OF A STREAM-DOMINATED ALLUVIAL FAN. , 2004, , 15-28.		22
48	Geological/Stochastic Mapping of Heterogeneity in a Carbonate Reservoir. JPT, Journal of Petroleum Technology, 1990, 42, 1298-1303.	0.2	20
49	Scalar dissipation rates in non-conservative transport systems. Journal of Contaminant Hydrology, 2013, 149, 46-60.	3.3	20
50	Adaptive Multirate Mass Transfer (aMMT) Model: A New Approach to Upscale Regionalâ€Scale Transport Under Transient Flow Conditions. Water Resources Research, 2020, 56, e2019WR026000.	4.2	20
51	Anthropogenic basin closure and groundwater salinization (ABCSAL). Journal of Hydrology, 2021, 593, 125787.	5.4	19
52	Low-Cost, Open Source Wireless Sensor Network for Real-Time, Scalable Groundwater Monitoring. Water (Switzerland), 2020, 12, 1066.	2.7	18
53	Modeling shallow water table evaporation in irrigated regions. Irrigation and Drainage Systems, 2007, 21, 119-132.	0.5	17
54	Role of Molecular Diffusion in Contaminant Migration and Recovery in an Alluvial Aquifer System. , 2001, , 155-179.		15

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55	Assessment of Groundwater Susceptibility to Non-Point Source Contaminants Using Three-Dimensional Transient Indexes. International Journal of Environmental Research and Public Health, 2018, 15, 1177.	2.6	14
56	Sensitivity of hydrologic and geologic parameters on recharge processes in a highly heterogeneous, semi-confined aquifer system. Hydrology and Earth System Sciences, 2020, 24, 2437-2456.	4.9	14
57	Integration of Soft Data Into Geostatistical Simulation of Categorical Variables. Frontiers in Earth Science, 2020, 8, .	1.8	12
58	Resolving hydrologic water balances through a novel error analysis approach, with application to the Tahoe basin. Journal of Hydrology, 2017, 546, 326-340.	5.4	10
59	Bayesian hydrograph separation in a minimally gauged alpine volcanic watershed in central Chile. Journal of Hydrology, 2019, 575, 1288-1300.	5.4	10
60	Surface Reservoir Reoperation for Managed Aquifer Recharge: Folsom Reservoir System. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	10
61	Mean Flow Direction Modulates Nonâ€Fickian Transport in a Heterogeneous Alluvial Aquiferâ€Aquitard System. Water Resources Research, 2021, 57, e2020WR028655.	4.2	9
62	Role of Volatilization in Changing TBA and MTBE Concentrations at MTBE-Contaminated Sites. Environmental Science & Technology, 2007, 41, 6822-6827.	10.0	8
63	Potential effects on groundwater quality associated with infiltrating stormwater through dry wells for aquifer recharge. Journal of Contaminant Hydrology, 2022, 246, 103964.	3.3	8
64	Describing Near Surface, Transient Flow Processes in Unconfined Aquifers below Irrigated Lands: Model Application in the Western San Joaquin Valley, California. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 451-459.	1.0	7
65	Timeâ€Fractional Flow Equations (tâ€FFEs) to Upscale Transient Groundwater Flow Characterized by Temporally Nonâ€Darcian Flow Due to Medium Heterogeneity. Water Resources Research, 2021, 57, e2020WR029554.	4.2	6
66	Exploring the Model Space of Airborne Electromagnetic Data to Delineate Largeâ€Scale Structure and Heterogeneity within an Aquifer System. Water Resources Research, 2021, 57, e2021WR029699.	4.2	5
67	Reply [to â€œComment on â€˜Diffusion theory for transport in porous media: Transition-probability densities of diffusion processes corresponding to advection-dispersion equationsâ€™ by Eric M. LaBolle et al.â€]. Water Resources Research, 2000, 36, 823-824.	4.2	4
68	Distribution and origination of zinc contamination in newly reclaimed heterogeneous dredger fills: Field investigation and numerical simulation. Marine Pollution Bulletin, 2019, 149, 110496.	5.0	4
69	Improving Groundwater Model in Regional Sedimentary Basin Using Hydraulic Gradients. KSCE Journal of Civil Engineering, 2020, 24, 1655-1669.	1.9	4
70	Soil temperature survey in a mountain basin. Geoderma, 2020, 367, 114202.	5.1	4
71	Optimum Plot Size for Field Trials of Taro (Colocasia esculenta). Hortscience: A Publication of the American Society for Hortcultural Science, 2013, 48, 435-443.	1.0	3
72	Hydrogeology of a groundwater sustained montane peatland: Grass Lake, California. Wetlands Ecology and Management, 2015, 23, 827-843.	1.5	2

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73	Using Cellular Automata Approach to Optimize the Hydropower Reservoir Operation of Folsom Dam. Water (Switzerland), 2021, 13, 1851.	2.7	2
74	SAMPLING DESIGN FOR SOIL MOISTURE MEASUREMENTS IN LARGE FIELD TRIALS1. Soil Science, 1995, 159, 155-161.	0.9	1