

# J Jaime GÃ³mez-HernÃ¡ndez

## List of Publications by Year in descending order

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137  
papers

5,023  
citations

87888

38  
h-index

98798

67  
g-index

155  
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155  
docs citations

155  
times ranked

2495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contaminant Source Identification in Aquifers: A Critical View. <i>Mathematical Geosciences</i> , 2022, 54, 437-458.	2.4	17
2	Ensemble Smoother with Multiple Data Assimilation as a Tool for Curve Fitting and Parameter Uncertainty Characterization: Example Applications to Fit Nonlinear Sorption Isotherms. <i>Mathematical Geosciences</i> , 2022, 54, 807-825.	2.4	3
3	Non-point contaminant source identification in an aquifer using the ensemble smoother with multiple data assimilation. <i>Journal of Hydrology</i> , 2022, 606, 127405.	5.4	11
4	Teaching Numerical Groundwater Flow Modeling with Spreadsheets. <i>Mathematical Geosciences</i> , 2022, 54, 1121-1138.	2.4	3
5	Contaminant source identification in groundwater by means of artificial neural network. <i>Journal of Hydrology</i> , 2022, 611, 128003.	5.4	8
6	Spatiotemporal Precipitation Estimation from Rain Gauges and Meteorological Radar Using Geostatistics. <i>Mathematical Geosciences</i> , 2021, 53, 499-516.	2.4	9
7	A comparison between ES-MDA and restart EnKF for the purpose of the simultaneous identification of a contaminant source and hydraulic conductivity. <i>Journal of Hydrology</i> , 2021, 595, 125681.	5.4	23
8	Introduction to the Special Issue in Honor of AndrÃ© G. Journel. <i>Mathematical Geosciences</i> , 2021, 53, 185-191.	2.4	0
9	One Step at a Time: The Origins of Sequential Simulation and Beyond. <i>Mathematical Geosciences</i> , 2021, 53, 193-209.	2.4	21
10	Groundwater Modelling in Karst Areas. <i>Water (Switzerland)</i> , 2021, 13, 854.	2.7	4
11	Contaminant Spill in a Sandbox with Non-Gaussian Conductivities: Simultaneous Identification by the Restart Normal-Score Ensemble Kalman Filter. <i>Mathematical Geosciences</i> , 2021, 53, 1587-1615.	2.4	12
12	Editorial: Machine Learning for Water Resources. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 699862.	3.4	4
13	Editorial: Stochastic Modeling in Hydrogeology. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
14	Contaminant-Source Detection in a Water Distribution System Using the Ensemble Kalman Filter. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	2.6	8
15	A Multidisciplinary Approach to Evaluate the Effectiveness of Natural Attenuation at a Contaminated Site. <i>Hydrology</i> , 2021, 8, 101.	3.0	8
16	Ensemble smoother with multiple data assimilation to simultaneously estimate the source location and the release history of a contaminant spill in an aquifer. <i>Journal of Hydrology</i> , 2021, 598, 126215.	5.4	23
17	Introduction to Special Section: The Quest for Sustainability of Heavily Stressed Aquifers at Regional to Global Scales. <i>Water Resources Research</i> , 2021, 57, e2021WR030446.	4.2	4
18	Solving Inverse Problems of Unknown Contaminant Source in Groundwater-River Integrated Systems Using a Surrogate Transport Model Based Optimization. <i>Water (Switzerland)</i> , 2020, 12, 2415.	2.7	15

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19	Coupling Empirical Bayes and Akaikeâ€™s Bayesian Information Criterion to Estimate Aquifer Transmissivity Fields. <i>Mathematical Geosciences</i> , 2020, 52, 425-441.	2.4	3
20	Integrating Hydrogeological and Microbiological Data and Modelling to Characterize the Hydraulic Features and Behaviour of Coastal Carbonate Aquifers: A Case in Western Cuba. <i>Water (Switzerland)</i> , 2019, 11, 1989.	2.7	13
21	Ensemble smoother with multiple data assimilation for reverse flow routing. <i>Computers and Geosciences</i> , 2019, 131, 32-40.	4.2	18
22	Analysis of the Saltwater Wedge in a Coastal Karst Aquifer with a Double Conduit Network, Numerical Simulations and Sensitivity Analysis. <i>Water (Switzerland)</i> , 2019, 11, 2311.	2.7	6
23	Characterization of Hydraulic Heterogeneity of Alluvial Aquifer Using Natural Stimuli: A Field Experience of Northern Italy. <i>Water (Switzerland)</i> , 2019, 11, 176.	2.7	9
24	Groundwater characterization from an ecological and human perspective: an interdisciplinary approach in the Functional Urban Area of Parma, Italy. <i>Rendiconti Lincei</i> , 2019, 30, 93-108.	2.2	18
25	Spatial variability of hydraulic conductivity and solute transport parameters and their spatial correlations to soil properties. <i>Geoderma</i> , 2019, 339, 59-69.	5.1	35
26	Stochastic upscaling of hydrodynamic dispersion and retardation factor in a physically and chemically heterogeneous tropical soil. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 201-216.	4.0	5
27	How to Perform Hydraulic Conductivity Upscaling in the Daily Practice of Geotechnical Modeler?. <i>Environmental Science and Engineering</i> , 2019, , 544-550.	0.2	0
28	Stochastic analysis of three-dimensional hydraulic conductivity upscaling in a heterogeneous tropical soil. <i>Computers and Geotechnics</i> , 2018, 100, 174-187.	4.7	13
29	Simultaneous identification of a contaminant source and hydraulic conductivity via the restart normal-score ensemble Kalman filter. <i>Advances in Water Resources</i> , 2018, 112, 106-123.	3.8	79
30	Scale effect on hydraulic conductivity and solute transport: Small and large-scale laboratory experiments and field experiments. <i>Engineering Geology</i> , 2018, 243, 196-205.	6.3	19
31	Joint identification of contaminant source and aquifer geometry in a sandbox experiment with the restart ensemble Kalman filter. <i>Journal of Hydrology</i> , 2018, 564, 1074-1084.	5.4	39
32	A multidisciplinary procedure to evaluate and optimize the efficacy of hydraulic barriers in contaminated sites: a case study in Northern Italy. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	9
33	Inverse Modeling Aided by the Classification and Regression Tree (CART) Algorithm. <i>Quantitative Geology and Geostatistics</i> , 2017, , 805-819.	0.1	1
34	Optimization of pulsed thermoelectric materials using simulated annealing and non-linear finite elements. <i>Applied Thermal Engineering</i> , 2017, 120, 603-613.	6.0	7
35	Introduction to special section on Modeling highly heterogeneous aquifers: Lessons learned in the last 30 years from the <scp>MADE</scp> experiments and others. <i>Water Resources Research</i> , 2017, 53, 2581-2584.	4.2	15
36	Identification of transmissivity fields using a Bayesian strategy and perturbative approach. <i>Advances in Water Resources</i> , 2017, 108, 69-82.	3.8	7

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37	A conceptual hydrogeological model of ophiolitic aquifers (serpentinised peridotite): The test example of Mt. Prinzera (Northern Italy). <i>Hydrological Processes</i> , 2017, 31, 1058-1073.	2.6	22
38	Influence of Heterogeneity on Heat Transport Simulations in Shallow Geothermal Systems. <i>Quantitative Geology and Geostatistics</i> , 2017, , 849-862.	0.1	2
39	NEW PRECIPITATION INDICES FOR MONITORING DROUGHT $\frac{1}{2}$ AN ANALYSIS OF THE PRECIPITATION REGIMES OF GERMANY AND THE IBERIAN PENINSULA IN THE COURSE OF THE CLIMATE CHANGE. , 2017, , .		0
40	Contaminant source reconstruction by empirical Bayes and Akaike's Bayesian Information Criterion. <i>Journal of Contaminant Hydrology</i> , 2016, 185-186, 74-86.	3.3	27
41	Joint identification of contaminant source location, initial release time, and initial solute concentration in an aquifer via ensemble Kalman filtering. <i>Water Resources Research</i> , 2016, 52, 6587-6595.	4.2	70
42	Characterization of non-Gaussian conductivities and porosities with hydraulic heads, solute concentrations, and water temperatures. <i>Water Resources Research</i> , 2016, 52, 6111-6136.	4.2	21
43	Geostatistics for Environmental Applications. <i>Mathematical Geosciences</i> , 2016, 48, 1-2.	2.4	4
44	Inverse sequential simulation: A new approach for the characterization of hydraulic conductivities demonstrated on a non-Gaussian field. <i>Water Resources Research</i> , 2015, 51, 2227-2242.	4.2	19
45	Contaminant release history identification in 2-D heterogeneous aquifers through a minimum relative entropy approach. <i>SpringerPlus</i> , 2015, 4, 656.	1.2	14
46	Two-point or multiple-point statistics? A comparison between the ensemble Kalman filtering and the ensemble pattern matching inverse methods. <i>Advances in Water Resources</i> , 2015, 86, 297-310.	3.8	18
47	A local-global pattern matching method for subsurface stochastic inverse modeling. <i>Environmental Modelling and Software</i> , 2015, 70, 55-64.	4.5	5
48	Probability fields revisited in the context of ensemble Kalman filtering. <i>Journal of Hydrology</i> , 2015, 531, 40-52.	5.4	10
49	Inverse sequential simulation: Performance and implementation details. <i>Advances in Water Resources</i> , 2015, 86, 311-326.	3.8	5
50	Numerical sedimentation particle-size analysis using the Discrete Element Method. <i>Advances in Water Resources</i> , 2015, 86, 58-72.	3.8	3
51	Evaluation of dispersivity coefficients by means of a laboratory image analysis. <i>Journal of Contaminant Hydrology</i> , 2015, 172, 10-23.	3.3	38
52	Laboratory sandbox validation of pollutant source location methods. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 169-182.	4.0	30
53	Simultaneous Estimation of Geologic and Reservoir State Variables Within an Ensemble-Based Multiple-Point Statistic Framework. <i>Mathematical Geosciences</i> , 2014, 46, 597-623.	2.4	15
54	Optimal numerical design of bucket elevators using discontinuous deformation analysis. <i>Granular Matter</i> , 2014, 16, 485-498.	2.2	8

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55	Factorial kriging of a geochemical dataset for heavy-metal spatial-variability characterization. <i>Environmental Earth Sciences</i> , 2014, 71, 3161-3170.	2.7	8
56	Inverse methods in hydrogeology: Evolution and recent trends. <i>Advances in Water Resources</i> , 2014, 63, 22-37.	3.8	260
57	Special Issue on Environmental Geostatistics. <i>Mathematical Geosciences</i> , 2013, 45, 507-509.	2.4	0
58	Simultaneous identification of the pollutant release history and the source location in groundwater by means of a geostatistical approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 1269-1280.	4.0	55
59	Parallelized ensemble Kalman filter for hydraulic conductivity characterization. <i>Computers and Geosciences</i> , 2013, 52, 42-49.	4.2	23
60	A pilot point guided pattern matching approach to integrate dynamic data into geological modeling. <i>Advances in Water Resources</i> , 2013, 62, 125-138.	3.8	16
61	Correction to "Steady-state saturated groundwater flow modeling with full tensor conductivities using finite differences". <i>Computers and Geosciences</i> , 2013, 54, 38.	4.2	0
62	The power of transient piezometric head data in inverse modeling: An application of the localized normal-score EnKF with covariance inflation in a heterogenous bimodal hydraulic conductivity field. <i>Advances in Water Resources</i> , 2013, 54, 100-118.	3.8	43
63	Characterizing Curvilinear Features Using the Localized Normal-Score Ensemble Kalman Filter. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-18.	0.7	8
64	Modeling transient groundwater flow by coupling ensemble Kalman filtering and upscaling. <i>Water Resources Research</i> , 2012, 48, .	4.2	29
65	A pattern-search-based inverse method. <i>Water Resources Research</i> , 2012, 48, .	4.2	44
66	Groundwater flow inverse modeling in non-MultiGaussian media: performance assessment of the normal-score Ensemble Kalman Filter. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 573-590.	4.9	43
67	Jointly mapping hydraulic conductivity and porosity by assimilating concentration data via ensemble Kalman filter. <i>Journal of Hydrology</i> , 2012, 428-429, 152-169.	5.4	91
68	Pattern Recognition in a Bimodal Aquifer Using the Normal-Score Ensemble Kalman Filter. <i>Mathematical Geosciences</i> , 2012, 44, 169-185.	2.4	45
69	New Developments in Subsurface Flow and Transport. <i>Mathematical Geosciences</i> , 2012, 44, 131-132.	2.4	1
70	Upscaling Transmissivity in the Near-Well Region for Numerical Simulation: A Comparison on Uncertainty Propagation. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2011, 5, 49-66.	3.1	4
71	A comparative study of three-dimensional hydraulic conductivity upscaling at the macro-dispersion experiment (MADE) site, Columbus Air Force Base, Mississippi (USA). <i>Journal of Hydrology</i> , 2011, 404, 278-293.	5.4	41
72	An approach to handling non-Gaussianity of parameters and state variables in ensemble Kalman filtering. <i>Advances in Water Resources</i> , 2011, 34, 844-864.	3.8	212

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73	Transport upscaling using multi-rate mass transfer in three-dimensional highly heterogeneous porous media. <i>Advances in Water Resources</i> , 2011, 34, 478-489.	3.8	41
74	An approach to handling non-Gaussianity of parameters and state variables in ensemble Kalman filtering. , 2011, 34, 844-844.		1
75	Three-dimensional hydraulic conductivity upscaling in groundwater modeling. <i>Computers and Geosciences</i> , 2010, 36, 1224-1235.	4.2	27
76	Steady-state saturated groundwater flow modeling with full tensor conductivities using finite differences. <i>Computers and Geosciences</i> , 2010, 36, 1211-1223.	4.2	18
77	Blocking Markov Chain Monte Carlo Schemes for Inverse Stochastic Hydrogeological Modeling. <i>Quantitative Geology and Geostatistics</i> , 2010, , 121-126.	0.1	1
78	Uncertainty assessment and data worth in groundwater flow and mass transport modeling using a blocking Markov chain Monte Carlo method. <i>Journal of Hydrology</i> , 2009, 364, 328-341.	5.4	87
79	A Blocking Markov Chain Monte Carlo Method for Inverse Stochastic Hydrogeological Modeling. <i>Mathematical Geosciences</i> , 2009, 41, 105-128.	2.4	57
80	A non-parametric automatic blending methodology to estimate rainfall fields from rain gauge and radar data. <i>Advances in Water Resources</i> , 2009, 32, 986-1002.	3.8	187
81	Upscaling transport with mass transfer models: Mean behavior and propagation of uncertainty. <i>Water Resources Research</i> , 2009, 45, .	4.2	33
82	Water intrusion in pipes due to a transient event. , 2009, , 315-318.		0
83	Preserving spatial structure for inverse stochastic simulation using blocking Markov chain Monte Carlo method. <i>Inverse Problems in Science and Engineering</i> , 2008, 16, 865-884.	1.2	18
84	A Stochastic Approach to Estimate Block Dispersivities that Includes the Effect of Mass Transfer Between Grid Blocks. , 2008, , 165-173.		0
85	Estimating hydraulic conductivity of the Opalinus Clay at the regional scale: Combined effect of desaturation and EDZ. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 639-645.	2.9	12
86	Impact of upscaling on solute transport: Traveltimes, scale dependence of dispersivity, and propagation of uncertainty. <i>Water Resources Research</i> , 2007, 43, .	4.2	35
87	Modeling tracer transport at the MADE site: The importance of heterogeneity. <i>Water Resources Research</i> , 2007, 43, .	4.2	92
88	A Multi-Scale-Oriented Blocking Markov Chain Monte Carlo Method for Inverse Stochastic Simulation. , 2007, , .		0
89	Modeling mass transfer processes using random walk particle tracking. <i>Water Resources Research</i> , 2006, 42, .	4.2	87
90	Complexity. <i>Ground Water</i> , 2006, 44, 782-785.	1.3	35

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91	A review and numerical assessment of the random walk particle tracking method. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 277-305.	3.3	261
92	Performance assessment of solute transport upscaling methods in the context of nuclear waste disposal. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 756-764.	5.8	14
93	Strategies to determine dispersivities in heterogeneous aquifers. , 2005, , 285-296.		0
94	Geostatistics. , 2005, , 59-83.		5
95	Impact of Flow and Transport Coupling in the Upscaling of Transport Parameters for Performance Assessment in the Context of Nuclear Waste Disposal. <i>Elsevier Geo-Engineering Book Series</i> , 2004, 2, 243-249.	0.0	2
96	Stochastic conditional inverse modeling of subsurface mass transport: A brief review and the self-calibrating method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2003, 17, 319-328.	4.0	35
97	Impact of measurement errors in stochastic inverse conditional modelling by the self-calibrating approach. <i>Advances in Water Resources</i> , 2003, 26, 501-511.	3.8	7
98	Comment on "Derivation of effective hydraulic parameters of a karst aquifer from discharge hydrograph analysis" by S. J. Baedke and N. C. Krothe. <i>Water Resources Research</i> , 2003, 39, .	4.2	8
99	A Bayesian approach to stochastic capture zone delineation incorporating tracer arrival times, conductivity measurements, and hydraulic head observations. <i>Water Resources Research</i> , 2003, 39, .	4.2	41
100	Reply to comment by A. Sahuquillo and J. Jaime GÃ3mez-HernÃ;ndez on "Derivation of effective hydraulic parameters of a karst aquifer from discharge hydrograph analysis". <i>Water Resources Research</i> , 2003, 39, .	4.2	2
101	Bayesian methodology for stochastic capture zone delineation incorporating transmissivity measurements and hydraulic head observations. <i>Journal of Hydrology</i> , 2003, 271, 156-170.	5.4	36
102	Coupled inverse modelling of groundwater flow and mass transport and the worth of concentration data. <i>Journal of Hydrology</i> , 2003, 281, 281-295.	5.4	81
103	Production Data Integration in Sand/Shale Reservoirs Using Sequential Self-Calibration and GeoMorphing: A Comparison. <i>SPE Reservoir Evaluation and Engineering</i> , 2002, 5, 255-265.	1.8	8
104	3D inverse modelling of groundwater flow at a fractured site using a stochastic continuum model with multiple statistical populations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2002, 16, 155-174.	4.0	41
105	Stochastic analysis of flow response in a three-dimensional fractured rock mass block. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 31-44.	5.8	18
106	Dual Kriging with Local Neighborhoods: Application to the Representation of Surfaces. <i>Mathematical Geosciences</i> , 2000, 32, 69-85.	0.9	8
107	Joint simulation of transmissivity and storativity fields conditional to steady-state and transient hydraulic head data. <i>Advances in Water Resources</i> , 1999, 23, 1-13.	3.8	42
108	Foreword to Special Issue: Modeling Subsurface Flow. <i>Mathematical Geosciences</i> , 1999, 31, 747-748.	0.9	2

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109	Title is missing!. Mathematical Geosciences, 1999, 31, 907-927.	0.9	37
110	A program to create permeability fields that honor single-phase flow rate and pressure data. Computers and Geosciences, 1999, 25, 217-230.	4.2	42
111	Inverse Modeling of Groundwater Flow in a 3D Fractured Media. Quantitative Geology and Geostatistics, 1999, , 283-294.	0.1	4
112	Upscaling Hydraulic Conductivities in Cross-Bedded Formations. Mathematical Geosciences, 1998, 30, 181-211.	0.9	30
113	Numerical modeling of macrodispersion in heterogeneous media: a comparison of multi-Gaussian and non-multi-Gaussian models. Journal of Contaminant Hydrology, 1998, 30, 129-156.	3.3	80
114	Worth of secondary data compared to piezometric data for the probabilistic assessment of radionuclide migration. Stochastic Hydrology & Hydraulics, 1998, 12, 171-190.	0.5	3
115	To be or not to be multi-Gaussian? A reflection on stochastic hydrogeology. Advances in Water Resources, 1998, 21, 47-61.	3.8	230
116	Stochastic simulation of transmissivity fields conditional to both transmissivity and piezometric head dataâ€³3. Application to the Culebra formation at the Waste Isolation Pilot Plan (WIPP), New Mexico, USA. Journal of Hydrology, 1998, 207, 254-269.	5.4	41
117	A comparison of seven geostatistically based inverse approaches to estimate transmissivities for modeling advective transport by groundwater flow. Water Resources Research, 1998, 34, 1373-1413.	4.2	274
118	Stochastic simulation of transmissivity fields conditional to both transmissivity and piezometric data 2. Demonstration on a synthetic aquifer. Journal of Hydrology, 1997, 203, 175-188.	5.4	64
119	Stochastic simulation of transmissivity fields conditional to both transmissivity and piezometric dataâ€³1. Theory. Journal of Hydrology, 1997, 203, 162-174.	5.4	278
120	Uncertainty in Hydrogeological Modelling. Novartis Foundation Symposium, 1997, 210, 221-230.	1.1	0
121	Incorporating Geophysical Information: Which Method to Use?. Quantitative Geology and Geostatistics, 1997, , 1221-1232.	0.1	2
122	Significance of conditioning to piezometric head data for predictions of mass transport in groundwater modeling. Mathematical Geosciences, 1996, 28, 951-968.	0.9	25
123	The Constant Displacement Scheme for Tracking Particles in Heterogeneous Aquifers. Ground Water, 1996, 34, 135-142.	1.3	42
124	Multigaussian models: The danger of parsimony. Journal of the Italian Statistical Society, 1995, 4, 167-181.	0.1	2
125	Probabilistic assessment of travel times in groundwater modeling. Stochastic Hydrology & Hydraulics, 1994, 8, 19-55.	0.5	39
126	Using linear approximations to rank realizations in groundwater modeling: Application to worst case selection. Water Resources Research, 1994, 30, 2065-2072.	4.2	10



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127	Stochastic Characterization of Gridblock Permeabilities. SPE Formation Evaluation, 1994, 9, 93-99.	0.5	26
128	Stochastic Imaging of the Wilmington Clastic Sequence. SPE Formation Evaluation, 1993, 8, 33-40.	0.5	61
129	Joint Sequential Simulation of MultiGaussian Fields. Quantitative Geology and Geostatistics, 1993, , 85-94.	0.1	160
130	Corrections to "ISIM3D: an ANSI-C three-dimensional multiple indicator conditional simulation program". Computers and Geosciences, 1992, 18, 623-625.	4.2	1
131	ANALYSIS OF UPSCALING AND EFFECTIVE PROPERTIES IN DISORDERED MEDIA. , 1991, , 251-276.		0
132	ISIM3D: An ANSI-C three-dimensional multiple indicator conditional simulation program. Computers and Geosciences, 1990, 16, 395-440.	4.2	214
133	A stochastic approach to the problem of upscaling of conductivity in disordered media: Theory and unconditional numerical simulations. Water Resources Research, 1990, 26, 691-701.	4.2	113
134	Reply [to "Comment on "Effective groundwater model parameter values: Influence of spatial variability of hydraulic conductivity, leakance, and recharge" by J. J. G3mez-Hern3ndez and S. M. Gorelick". Water Resources Research, 1990, 26, 1847-1848.	4.2	0
135	Effective groundwater model parameter values: Influence of spatial variability of hydraulic conductivity, leakance, and recharge. Water Resources Research, 1989, 25, 405-419.	4.2	145
136	A MultiGaussian Kriging Application to the Environmental Impact Assessment of a New Industrial Site in Alcoy (Spain). , 0, , 203-210.		1
137	An Analytical Approach to the Computation of the Frequency Response Function. , 0, , .		0