Julien Straubhaar

List of Publications by Year
in descending order

42 papers	1,521 citations	471509 17 h-index	302126 39 g-index
50 all docs	50 docs citations	50 times ranked	856 citing authors

#	Article	IF	Citations
1	The Direct Sampling method to perform multiple‐point geostatistical simulations. Water Resources Research, 2010, 46, .	4.2	425
2	An Improved Parallel Multiple-point Algorithm Using a List Approach. Mathematical Geosciences, 2011, 43, 305-328.	2.4	180
3	A practical guide to performing multiple-point statistical simulations with the Direct Sampling algorithm. Computers and Geosciences, 2013, 52, 307-324.	4.2	124
4	3D multiple-point statistics simulation using 2D training images. Computers and Geosciences, 2012, 40, 49-65.	4.2	117
5	Three-dimensional high resolution fluvio-glacial aquifer analog – Part 2: Geostatistical modeling. Journal of Hydrology, 2011, 405, 10-23.	5.4	94
6	Parallel Multiple-Point Statistics Algorithm Based on List and Tree Structures. Mathematical Geosciences, 2013, 45, 131-147.	2.4	55
7	Simulation of rainfall time series from different climatic regions using the direct sampling technique. Hydrology and Earth System Sciences, 2014, 18, 3015-3031.	4.9	44
8	Conditioning Facies Simulations with Connectivity Data. Mathematical Geosciences, 2011, 43, 879-903.	2.4	37
9	Simulation of braided river elevation model time series with multiple-point statistics. Geomorphology, 2014, 214, 148-156.	2.6	31
10	Conditioning of Multiple-Point Statistics Facies Simulations to Tomographic Images. Mathematical Geosciences, 2014, 46, 625-645.	2.4	28
11	Hydrostratigraphic modeling using multiple-point statistics and airborne transient electromagnetic methods. Hydrology and Earth System Sciences, 2018, 22, 3351-3373.	4.9	28
12	A new methodology to train fracture network simulation using multiple-point statistics. Solid Earth, 2019, 10, 537-559.	2.8	27
13	Influence of conceptual model uncertainty on contaminant transport forecasting in braided river aquifers. Journal of Hydrology, 2015, 531, 124-141.	5.4	24
14	Missing data simulation inside flow rate time-series using multiple-point statistics. Environmental Modelling and Software, 2016, 86, 264-276.	4.5	22
15	Conditioning multiple-point statistics simulations to block data. Spatial Statistics, 2016, 16, 53-71.	1.9	22
16	Constraining distance-based multipoint simulations to proportions and trends. Environmental Modelling and Software, 2015, 72, 184-197.	4.5	21
17	Extrapolating the Fractal Characteristics of an Image Using Scale-Invariant Multiple-Point Statistics. Mathematical Geosciences, 2011, 43, 783-797.	2.4	19
18	Multiple-point statistics using multi-resolution images. Stochastic Environmental Research and Risk Assessment, 2020, 34, 251-273.	4.0	16

#	Article	IF	Citations
19	Posterior population expansion for solving inverse problems. Water Resources Research, 2017, 53, 2902-2916.	4.2	14
20	Simulating Small‐Scale Rainfall Fields Conditioned by Weather State and Elevation: A Data‐Driven Approach Based on Rainfall Radar Images. Water Resources Research, 2017, 53, 8512-8532.	4.2	14
21	Multiple-point statistical simulation of the ore boundaries for a lateritic bauxite deposit. Stochastic Environmental Research and Risk Assessment, 2019, 33, 865-878.	4.0	14
22	A pseudo genetic model of coarse braided‐river deposits. Water Resources Research, 2015, 51, 9595-9611.	4.2	13
23	Contributions to uncertainty related to hydrostratigraphic modeling using multiple-point statistics. Hydrology and Earth System Sciences, 2018, 22, 5485-5508.	4.9	12
24	Addressing Conditioning Data in Multiple-Point Statistics Simulation Algorithms Based on a Multiple Grid Approach. Mathematical Geosciences, 2014, 46, 187-204.	2.4	11
25	Automatic Parameter Tuning of Multiple-Point Statistical Simulations for Lateritic Bauxite Deposits. Minerals (Basel, Switzerland), 2018, 8, 220.	2.0	11
26	A Framework for the Cross‐Validation of Categorical Geostatistical Simulations. Earth and Space Science, 2020, 7, e2020EA001152.	2.6	11
27	Integrating aerial geophysical data in multiple-point statistics simulations to assist groundwater flow models. Hydrogeology Journal, 2015, 23, 883-900.	2.1	10
28	Simulating rainfall time-series: how to account for statistical variability at multiple scales?. Stochastic Environmental Research and Risk Assessment, 2018, 32, 321-340.	4.0	10
29	Comparing connected structures in ensemble of random fields. Advances in Water Resources, 2016, 96, 145-169.	3.8	9
30	Pilot Point Optimization of Mining Boundaries for Lateritic Metal Deposits: Finding the Trade-off Between Dilution and Ore Loss. Natural Resources Research, 2019, 28, 153-171.	4.7	9
31	Parallelized Adaptive Importance Sampling for Solving Inverse Problems. Frontiers in Earth Science, 2018, 6, .	1.8	8
32	Fast and Interactive Editing Tools for Spatial Models. Mathematical Geosciences, 2019, 51, 109-125.	2.4	8
33	Impact of phases distribution on mixing and reactions in unsaturated porous media. Advances in Water Resources, 2020, 144, 103697.	3.8	8
34	3D multiple-point statistics simulations of the Roussillon Continental Pliocene aquifer using DeeSse. Hydrology and Earth System Sciences, 2020, 24, 4997-5013.	4.9	8
35	Conditioning Multiple‐Point Statistics Simulation to Inequality Data. Earth and Space Science, 2021, 8, e2020EA001515.	2.6	7
36	Multiresolution Approach to Condition Categorical Multiple‐Point Realizations to Dynamic Data With Iterative Ensemble Smoothing. Water Resources Research, 2020, 56, e2019WR025875.	4.2	6

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37	Ice volume and basal topography estimation using geostatistical methods and ground-penetrating radar measurements: application to the Tsanfleuron and Scex Rouge glaciers, Swiss Alps. Cryosphere, 2021, 15, 5169-5186.	3.9	5
38	Automated Hierarchical 3D Modeling of Quaternary Aquifers: The ArchPy Approach. Frontiers in Earth Science, 2022, 10, .	1.8	5
39	Preconditioners for the conjugate gradient algorithm using Gram–Schmidt and least squares methods. International Journal of Computer Mathematics, 2007, 84, 89-108.	1.8	3
40	Parallel preconditioners for the conjugate gradient algorithm using Gram–Schmidt and least squares methods. Parallel Computing, 2008, 34, 551-569.	2.1	2
41	Efficiency of template matching methods for Multiple-Point Statistics simulations. Applied Computing and Geosciences, 2021, 11, 100064.	2.2	1
42	Handling Soft Probabilities in Multiple Point Statistics Simulation. Lecture Notes in Earth System Sciences, 2014, , 69-72.	0.6	0