

Julien Straubhaar

List of Publications by Year in descending order

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Version: 2024-02-01

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	Automated Hierarchical 3D Modeling of Quaternary Aquifers: The ArchPy Approach. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	5
2	Conditioning Multiple-Point Statistics Simulation to Inequality Data. <i>Earth and Space Science</i> , 2021, 8, e2020EA001515.	2.6	7
3	Efficiency of template matching methods for Multiple-Point Statistics simulations. <i>Applied Computing and Geosciences</i> , 2021, 11, 100064.	2.2	1
4	Ice volume and basal topography estimation using geostatistical methods and ground-penetrating radar measurements: application to the Tsanfleuron and Scex Rouge glaciers, Swiss Alps. <i>Cryosphere</i> , 2021, 15, 5169-5186.	3.9	5
5	A Framework for the Cross-Validation of Categorical Geostatistical Simulations. <i>Earth and Space Science</i> , 2020, 7, e2020EA001152.	2.6	11
6	Impact of phases distribution on mixing and reactions in unsaturated porous media. <i>Advances in Water Resources</i> , 2020, 144, 103697.	3.8	8
7	Multiresolution Approach to Condition Categorical Multiple-Point Realizations to Dynamic Data With Iterative Ensemble Smoothing. <i>Water Resources Research</i> , 2020, 56, e2019WR025875.	4.2	6
8	Multiple-point statistics using multi-resolution images. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 251-273.	4.0	16
9	3D multiple-point statistics simulations of the Roussillon Continental Pliocene aquifer using DeeSse. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4997-5013.	4.9	8
10	Pilot Point Optimization of Mining Boundaries for Lateritic Metal Deposits: Finding the Trade-off Between Dilution and Ore Loss. <i>Natural Resources Research</i> , 2019, 28, 153-171.	4.7	9
11	A new methodology to train fracture network simulation using multiple-point statistics. <i>Solid Earth</i> , 2019, 10, 537-559.	2.8	27
12	Multiple-point statistical simulation of the ore boundaries for a lateritic bauxite deposit. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 865-878.	4.0	14
13	Fast and Interactive Editing Tools for Spatial Models. <i>Mathematical Geosciences</i> , 2019, 51, 109-125.	2.4	8
14	Simulating rainfall time-series: how to account for statistical variability at multiple scales?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 321-340.	4.0	10
15	Hydrostratigraphic modeling using multiple-point statistics and airborne transient electromagnetic methods. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3351-3373.	4.9	28
16	Contributions to uncertainty related to hydrostratigraphic modeling using multiple-point statistics. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5485-5508.	4.9	12
17	Parallelized Adaptive Importance Sampling for Solving Inverse Problems. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	8
18	Automatic Parameter Tuning of Multiple-Point Statistical Simulations for Lateritic Bauxite Deposits. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 220.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Posterior population expansion for solving inverse problems. <i>Water Resources Research</i> , 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. <i>Water Resources Research</i> , 2017, 53, 8512-8532.	4.2	14
21	Comparing connected structures in ensemble of random fields. <i>Advances in Water Resources</i> , 2016, 96, 145-169.	3.8	9
22	Missing data simulation inside flow rate time-series using multiple-point statistics. <i>Environmental Modelling and Software</i> , 2016, 86, 264-276.	4.5	22
23	Conditioning multiple-point statistics simulations to block data. <i>Spatial Statistics</i> , 2016, 16, 53-71.	1.9	22
24	A pseudo genetic model of coarse braided river deposits. <i>Water Resources Research</i> , 2015, 51, 9595-9611.	4.2	13
25	Influence of conceptual model uncertainty on contaminant transport forecasting in braided river aquifers. <i>Journal of Hydrology</i> , 2015, 531, 124-141.	5.4	24
26	Integrating aerial geophysical data in multiple-point statistics simulations to assist groundwater flow models. <i>Hydrogeology Journal</i> , 2015, 23, 883-900.	2.1	10
27	Constraining distance-based multipoint simulations to proportions and trends. <i>Environmental Modelling and Software</i> , 2015, 72, 184-197.	4.5	21
28	Simulation of rainfall time series from different climatic regions using the direct sampling technique. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3015-3031.	4.9	44
29	Addressing Conditioning Data in Multiple-Point Statistics Simulation Algorithms Based on a Multiple Grid Approach. <i>Mathematical Geosciences</i> , 2014, 46, 187-204.	2.4	11
30	Conditioning of Multiple-Point Statistics Facies Simulations to Tomographic Images. <i>Mathematical Geosciences</i> , 2014, 46, 625-645.	2.4	28
31	Simulation of braided river elevation model time series with multiple-point statistics. <i>Geomorphology</i> , 2014, 214, 148-156.	2.6	31
32	Handling Soft Probabilities in Multiple Point Statistics Simulation. <i>Lecture Notes in Earth System Sciences</i> , 2014, , 69-72.	0.6	0
33	Parallel Multiple-Point Statistics Algorithm Based on List and Tree Structures. <i>Mathematical Geosciences</i> , 2013, 45, 131-147.	2.4	55
34	A practical guide to performing multiple-point statistical simulations with the Direct Sampling algorithm. <i>Computers and Geosciences</i> , 2013, 52, 307-324.	4.2	124
35	3D multiple-point statistics simulation using 2D training images. <i>Computers and Geosciences</i> , 2012, 40, 49-65.	4.2	117
36	Three-dimensional high resolution fluvio-glacial aquifer analog – Part 2: Geostatistical modeling. <i>Journal of Hydrology</i> , 2011, 405, 10-23.	5.4	94

#	ARTICLE	IF	CITATIONS
37	An Improved Parallel Multiple-point Algorithm Using a List Approach. <i>Mathematical Geosciences</i> , 2011, 43, 305-328.	2.4	180
38	Extrapolating the Fractal Characteristics of an Image Using Scale-Invariant Multiple-Point Statistics. <i>Mathematical Geosciences</i> , 2011, 43, 783-797.	2.4	19
39	Conditioning Facies Simulations with Connectivity Data. <i>Mathematical Geosciences</i> , 2011, 43, 879-903.	2.4	37
40	The Direct Sampling method to perform multiple-point geostatistical simulations. <i>Water Resources Research</i> , 2010, 46, .	4.2	425
41	Parallel preconditioners for the conjugate gradient algorithm using Gram-Schmidt and least squares methods. <i>Parallel Computing</i> , 2008, 34, 551-569.	2.1	2
42	Preconditioners for the conjugate gradient algorithm using Gram-Schmidt and least squares methods. <i>International Journal of Computer Mathematics</i> , 2007, 84, 89-108.	1.8	3