

Julián M Ortiz

List of Publications by Year in descending order

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papers

628
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687363

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23
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62
all docs

62
docs citations

62
times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	Indicator Simulation Accounting for Multiple-Point Statistics. <i>Mathematical Geosciences</i> , 2004, 36, 545-565.	0.9	60
2	Verifying the high-order consistency of training images with data for multiple-point geostatistics. <i>Computers and Geosciences</i> , 2014, 70, 190-205.	4.2	45
3	Parallel implementation of simulated annealing to reproduce multiple-point statistics. <i>Computers and Geosciences</i> , 2011, 37, 1110-1121.	4.2	42
4	A comparison between ACO and Dijkstra algorithms for optimal ore concentrate pipeline routing. <i>Journal of Cleaner Production</i> , 2017, 144, 149-160.	9.3	41
5	Adapting a texture synthesis algorithm for conditional multiple point geostatistical simulation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 1101-1111.	4.0	37
6	Multiple-point geostatistical simulation of dykes: application at Sungun porphyry copper system, Iran. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 1913-1927.	4.0	28
7	Copper mining: 100% solar electricity by 2030?. <i>Applied Energy</i> , 2020, 262, 114506.	10.1	27
8	Weighted sample variograms as a tool to better assess the spatial variability of soil properties. <i>Geoderma</i> , 2007, 140, 81-89.	5.1	21
9	Quantifying Uncertainty in Mineral Resources by Use of Classification Schemes and Conditional Simulations. <i>Mathematical Geosciences</i> , 2006, 38, 445-464.	0.9	19
10	Histogram and variogram inference in the multigaussian model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 48-58.	4.0	18
11	Machine Learning and Deep Learning Methods in Mining Operations: a Data-Driven SAG Mill Energy Consumption Prediction Application. <i>Mining, Metallurgy and Exploration</i> , 2020, 37, 1197-1212.	0.8	16
12	Studying the integration of solar energy into the operation of a semi-autogenous grinding mill. Part II: Effect of ore hardness variability, geometallurgical modeling and demand side management. <i>Minerals Engineering</i> , 2019, 137, 53-67.	4.3	15
13	Two approaches to direct block-support conditional co-simulation. <i>Computers and Geosciences</i> , 2011, 37, 1015-1025.	4.2	14
14	Analysis and Classification of Natural Rock Textures based on New Transform-based Features. <i>Mathematical Geosciences</i> , 2016, 48, 835-870.	2.4	13
15	Optimization of a SAG Mill Energy System: Integrating Rock Hardness, Solar Irradiation, Climate Change, and Demand-Side Management. <i>Mathematical Geosciences</i> , 2020, 52, 355-379.	2.4	13
16	Recursive convolutional neural networks in a multiple-point statistics framework. <i>Computers and Geosciences</i> , 2020, 141, 104522.	4.2	13
17	Studying the integration of solar energy into the operation of a semi-autogenous grinding mill. Part I: Framework, model development and effect of solar irradiance forecasting. <i>Minerals Engineering</i> , 2019, 137, 68-77.	4.3	12
18	Shortcomings of multiple indicator kriging for assessing local distributions. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2004, 113, 249-259.	0.8	9

#	ARTICLE	IF	CITATIONS
19	Enhanced coregionalization analysis for simulating vector Gaussian random fields. Computers and Geosciences, 2012, 42, 126-135.	4.2	9
20	Detecting and quantifying sources of non-stationarity via experimental semivariogram modeling. Stochastic Environmental Research and Risk Assessment, 2012, 26, 247-260.	4.0	9
21	A combined multivariate approach analyzing geochemical data for knowledge discovery: The Vazante "Paracatu Zinc District, Minas Gerais, Brazil. Journal of Geochemical Exploration, 2021, 221, 106696.	3.2	9
22	Reconstruction of channelized geological facies based on RIPless compressed sensing. Computers and Geosciences, 2015, 77, 54-65.	4.2	8
23	Acceleration of the Geostatistical Software Library (GSLIB) by code optimization and hybrid parallel programming. Computers and Geosciences, 2015, 85, 210-233.	4.2	8
24	Scaling multiple-point statistics to different univariate proportions. Computers and Geosciences, 2007, 33, 191-201.	4.2	7
25	A methodology to construct training images for vein-type deposits. Computers and Geosciences, 2008, 34, 491-502.	4.2	7
26	Local recoverable reserves prediction with block LU simulation. International Journal of Mining and Mineral Engineering, 2008, 1, 3.	0.3	7
27	A Comparison of Random Field Models Beyond Bivariate Distributions. Mathematical Geosciences, 2011, 43, 183-202.	2.4	7
28	Tuning and hybrid parallelization of a genetic-based multi-point statistics simulation code. Parallel Computing, 2014, 40, 144-158.	2.1	7
29	Change of support using non-additive variables with Gibbs Sampler: Application to metallurgical recovery of sulphide ores. Computers and Geosciences, 2019, 122, 68-76.	4.2	7
30	An LSTM Approach for SAG Mill Operational Relative-Hardness Prediction. Minerals (Basel), 2020, 10, 107.	2.0	7
31	On the challenge of using sequential indicator simulation for the estimation of recoverable reserves. International Journal of Mining, Reclamation and Environment, 2008, 22, 285-299.	2.8	6
32	Antithetic random fields applied to mine planning under uncertainty. Computers and Geosciences, 2018, 121, 23-29.	4.2	6
33	Variogram-Based Descriptors for Comparison and Classification of Rock Texture Images. Mathematical Geosciences, 2020, 52, 451-476.	2.4	6
34	Sampling Strategies for Uncertainty Reduction in Categorical Random Fields: Formulation, Mathematical Analysis and Application to Multiple-Point Simulations. Mathematical Geosciences, 2019, 51, 579-624.	2.4	5
35	Stochastic Final Pit Limits: An Efficient Frontier Analysis under Geological Uncertainty in the Open-Pit Mining Industry. Mathematics, 2022, 10, 100.	2.2	5
36	Multiple-Point Geostatistical Simulation Based on Genetic Algorithms Implemented in a Shared-Memory Supercomputer. Quantitative Geology and Geostatistics, 2012, , 103-114.	0.1	4

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37	Ore-Waste Discrimination with Adaptive Sampling Strategy. Natural Resources Research, 2020, 29, 3079-3102.	4.7	3
38	Internal Consistency and Inference of Change-of-support Isofactorial Models. Quantitative Geology and Geostatistics, 2005, , 1057-1066.	0.1	3
39	Sequential Indicator Simulation with Locally Varying Anisotropy – Simulating Mineralized Units in a Porphyry Copper Deposit. Journal of Mining Engineering and Research, 2019, 1, 1-7.	0.3	3
40	Simulation of Synthetic Exploration and Geometallurgical Database of Porphyry Copper Deposits for Educational Purposes. Natural Resources Research, 2020, 29, 3527-3545.	4.7	3
41	Inverse Modeling of Moving Average Isotropic Kernels for Non-parametric Three-Dimensional Gaussian Simulation. Mathematical Geosciences, 2016, 48, 559-579.	2.4	2
42	A path-level exact parallelization strategy for sequential simulation. Computers and Geosciences, 2018, 110, 10-22.	4.2	2
43	Uncertainty Assessment over any Volume without Simulation: Revisiting Multi-Gaussian Kriging. Mathematical Geosciences, 2021, 53, 1375-1405.	2.4	2
44	A Simple Unsupervised Classification Workflow for Defining Geological Domains Using Multivariate Data. Mining, Metallurgy and Exploration, 2021, 38, 1609-1623.	0.8	2
45	On the Use of Machine Learning for Mineral Resource Classification. Mining, Metallurgy and Exploration, 2021, 38, 2055-2073.	0.8	2
46	Channelized facies recovery based on weighted compressed sensing. , 2016, , .		1
47	Geological Facies Recovery Based on Weighted ℓ_1 -Regularization. Mathematical Geosciences, 2020, 52, 593-617.	2.4	1
48	Recursive convolutional neural networks in a multiple-point statistics framework. , 2019, , 168-176.		1
49	Resurrecting GSLIB by Code Optimization and Multi-core Programming. , 2016, , 147-152.		0
50	Multiple Point Statistics. Encyclopedia of Earth Sciences Series, 2021, , 1-11.	0.1	0
51	Multiple Point Geostatistical Simulation with Simulated Annealing: Implementation Using Speculative Parallel Computing. Quantitative Geology and Geostatistics, 2010, , 383-394.	0.1	0
52	Performance assessment of antithetic random fields in a stochastic mine planning model. , 2019, , 300-308.		0
53	Multivariate geostatistical simulation using principal component analysis. , 2019, , 76-85.		0