Miguel Angel Martin Martin

List of Publications by Year
in descending order

45	979	586496 16	511568 30
papers	citations	h-index	g-index

50	50	50	881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ENTEROTYPE-LIKE MICROBIOME STRATIFICATION AS EMERGENT STRUCTURE IN COMPLEX ADAPTIVE SYSTEMS: A MATHEMATICAL MODEL. Fractals, 2021, 29, .	1.8	2
2	On the Information Content of Coarse Data with Respect to the Particle Size Distribution of Complex Granular Media: Rationale Approach and Testing. Entropy, 2019, 21, 601.	1.1	3
3	On soil textural classifications and soil-texture-based estimations. Solid Earth, 2018, 9, 159-165.	1.2	9
4	Technical note: Saturated hydraulic conductivity and textural heterogeneity of soils. Hydrology and Earth System Sciences, 2018, 22, 3923-3932.	1.9	34
5	An entropy-like parameter of particle size distributions as packing density index in complex granular media. Granular Matter, 2017, 19, 1.	1.1	5
6	Lithologic control on soil texture heterogeneity. Geoderma, 2017, 287, 157-163.	2.3	15
7	Estimating soil bulk density with information metrics of soil texture. Geoderma, 2017, 287, 66-70.	2.3	53
8	Identification of Bedrock Lithology using Fractal Dimensions of Drainage Networks extracted from Medium Resolution LiDAR Digital Terrain Models. Pure and Applied Geophysics, 2016, 173, 945-961.	0.8	11
9	Intermittent Plurisink Model and the Emergence of Complex Heterogeneity Patterns: A Simple Paradigm for Explaining Complexity in Soil Chemical Distributions. Journal of Chemistry, 2015, 2015, 1-5.	0.9	1
10	AN INTRODUCTION TO FLOW AND TRANSPORT IN FRACTAL MODELS OF POROUS MEDIA: PART II. Fractals, 2015, 23, 1502001.	1.8	9
11	Computer Simulation of Packing of Particles with Size Distributions Produced by Fragmentation Processes. Pure and Applied Geophysics, 2015, 172, 141-148.	0.8	5
12	Computer simulation of the interplay between fractal structures and surrounding heterogeneous multifractal distributions. Applications. Mathematics and Computers in Simulation, 2015, 118, 293-301.	2.4	0
13	QUANTIFYING THE RELATIONSHIP BETWEEN DRAINAGE NETWORKS AT HILLSLOPE SCALE AND PARTICLE SIZE DISTRIBUTION AT PEDON SCALE. Fractals, 2015, 23, 1540007.	1.8	6
14	COMPUTER SIMULATION OF RANDOM PACKINGS FOR SELF-SIMILAR PARTICLE SIZE DISTRIBUTIONS IN SOIL AND GRANULAR MATERIALS: POROSITY AND PORE SIZE DISTRIBUTION. Fractals, 2014, 22, 1440009.	1.8	6
15	AN INTRODUCTION TO FLOW AND TRANSPORT IN FRACTAL MODELS OF POROUS MEDIA: PART I. Fractals, 2014, 22, 1402001.	1.8	15
16	Lithologic Control on the Scaling Properties of the Firstâ€Order Streams of Drainage Networks: A Monofractal Analysis. Vadose Zone Journal, 2013, 12, 1-8.	1.3	6
17	On the Generative Equations of Fractal Selfâ€Similarity in Granular Media and the Related PSD Models. Vadose Zone Journal, 2013, 12, 1-4.	1.3	2
18	Fractal Analysis in Agrophysics. Encyclopedia of Earth Sciences Series, 2011, , 309-315.	0.1	0

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19	Multifractal analysis of discretized X-ray CT images for the characterization of soil macropore structures. Geoderma, 2010, 156, 32-42.	2.3	135
20	Modeling Multifractal Features of Soil Particle Size Distributions with Kolmogorov Fragmentation Algorithms. Vadose Zone Journal, 2009, 8, 202-208.	1.3	12
21	Limitations in Determining Multifractal Spectra from Poreâ€“Solid Soil Aggregate Images. Vadose Zone Journal, 2009, 8, 220-226.	1.3	21
22	On the fractal modelling of biomass distributions: An application to size class in fisheries. Ecological Complexity, 2009, 6, 246-253.	1.4	4
23	Fractal and Multifractal Models Applied to Porous Media. Vadose Zone Journal, 2009, 8, 174-176.	1.3	18
24	A Fractal Interaction Model for Winding Paths through Complex Distributions: Application to Soil Drainage Networks. Pure and Applied Geophysics, 2008, 165, 1153-1165.	0.8	6
25	Testing Logselfsimilarity of Soil Particle Size Distribution: Simulation with Minimum Inputs. Pure and Applied Geophysics, 2008, 165, 1117-1129.	0.8	1
26	Log selfsimilarity of continuous soil Particle-size distributions estimated using random multiplicative cascades. Clays and Clay Minerals, 2008, 56, 389-395.	0.6	5
27	A Fractal Interaction Model for Winding Paths through Complex Distributions: Application to Soil Drainage Networks. , 2008, , 1153-1165.		0
28	Testing Logselfsimilarity of Soil Particle Size Distribution: Simulation with Minimum Inputs. , 2008, , 1117-1129.		0
29	Mathematical modelling of leaching by irregular wetting fronts in chemically heterogeneous porous media. Geoderma, 2006, 134, 267-273.	2.3	3
30	Inter-scale behavior of balanced entropy for soil texture. Geoderma, 2006, 134, 415-427.	2.3	3
31	BALANCED ENTROPY INDEX TO CHARACTERIZE SOIL TEXTURE FOR SOIL WATER RETENTION ESTIMATION. Soil Science, 2005, 170, 759-766.	0.9	14
32	Scaling, fractals and diversity in soils and ecohydrology. Ecological Modelling, 2005, 182, 217-220.	1.2	19
33	An entropy-based heterogeneity index for massâ€“size distributions in Earth science. Ecological Modelling, 2005, 182, 221-228.	1.2	23
34	Multifractal scaling of soil spatial variability. Ecological Modelling, 2005, 182, 291-303.	1.2	84
35	HÃ¶lder spectrum of dry grain volume-size distributions in soil. Geoderma, 2003, 112, 197-204.	2.3	27
36	RÃ©nyi dimensions of soil pore size distribution. Geoderma, 2003, 112, 205-216.	2.3	85

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37	Laser diffraction and multifractal analysis for the characterization of dry soil volume-size distributions. Soil and Tillage Research, 2002, 64, 113-123.	2.6	79
38	An entropyâ€“based parametrization of soil texture via fractal modelling of particleâ€“size distribution. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 937-947.	1.0	24
39	SINGULARITY FEATURES OF PORE-SIZE SOIL DISTRIBUTION: SINGULARITY STRENGTH ANALYSIS AND ENTROPY SPECTRUM. Fractals, 2001, 09, 305-316.	1.8	43
40	On the parametrization of self-similar and other fractal sets. Proceedings of the American Mathematical Society, 2000, 128, 2641-2648.	0.4	8
41	On the role of Shannon's entropy as a measure of heterogeneity. Geoderma, 2000, 98, 1-3.	2.3	35
42	Simulation and testing of self-similar structures for soil particle-size distributions using iterated function systems. Geoderma, 1999, 88, 191-203.	2.3	41
43	Fractal modelling, characterization and simulation of particle-size distributions in soil. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1998, 454, 1457-1468.	1.0	55
44	Hausdorff measures, HÃ¶lder continuous maps and self-similar fractals. Mathematical Proceedings of the Cambridge Philosophical Society, 1993, 114, 37-42.	0.3	8
45	k-Dimensional Regularity Classifications for s-Fractals. Transactions of the American Mathematical Society, 1988, 305, 293.	0.5	15