Miguel Angel Martin Martin

List of Publications by Year in Descending Order

44 papers	775 citations	15 h-index	27 g-index
50 ext. papers	865 ext. citations	3.5 avg, IF	3.96 L-index

#	Paper	IF	Citations
44	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,	2.8	1
43	Technical note: Saturated hydraulic conductivity and textural heterogeneity of soils. *Hydrology and Earth System Sciences*, **2018**, 22, 3923-3932	5.5	21
42	On soil textural classifications and soil-texture-based estimations. *Solid Earth*, **2018**, 9, 159-165	3.3	5
41	An entropy-like parameter of particle size distributions as packing density index in complex granular media. *Granular Matter*, **2017**, 19, 1	2.6	3
40	Lithologic control on soil texture heterogeneity. *Geoderma*, **2017**, 287, 157-163	6.7	7
39	Estimating soil bulk density with information metrics of soil texture. *Geoderma*, **2017**, 287, 66-70	6.7	37
38	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	2.2	7
37	AN INTRODUCTION TO FLOW AND TRANSPORT IN FRACTAL MODELS OF POROUS MEDIA: PART II. *Fractals*, **2015**, 23, 1502001	3.2	7
36	Computer Simulation of Packing of Particles with Size Distributions Produced by Fragmentation Processes. *Pure and Applied Geophysics*, **2015**, 172, 141-148	2.2	5
35	Computer simulation of the interplay between fractal structures and surrounding heterogeneous multifractal distributions. Applications. *Mathematics and Computers in Simulation*, **2015**, 118, 293-301	3.3	
34	QUANTIFYING THE RELATIONSHIP BETWEEN DRAINAGE NETWORKS AT HILLSLOPE SCALE AND PARTICLE SIZE DISTRIBUTION AT PEDON SCALE. *Fractals*, **2015**, 23, 1540007	3.2	6
33	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	2.3	1
32	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	3.2	6
31	AN INTRODUCTION TO FLOW AND TRANSPORT IN FRACTAL MODELS OF POROUS MEDIA: PART I. *Fractals*, **2014**, 22, 1402001	3.2	14
30	Lithologic Control on the Scaling Properties of the First-Order Streams of Drainage Networks: A Monofractal Analysis. *Vadose Zone Journal*, **2013**, 12, vzj2012.0205	2.7	5
29	On the Generative Equations of Fractal Self-Similarity in Granular Media and the Related PSD Models. *Vadose Zone Journal*, **2013**, 12, vzj2012.0207	2.7	2
28	Multifractal analysis of discretized X-ray CT images for the characterization of soil macropore structures. *Geoderma*, **2010**, 156, 32-42	6.7	99

27	Limitations in Determining Multifractal Spectra from Pore–Solid Soil Aggregate Images. *Vadose Zone Journal*, **2009**, 8, 220-226	2.7	18
26	On the fractal modelling of biomass distributions: An application to size class in fisheries. *Ecological Complexity*, **2009**, 6, 246-253	2.6	2
25	Fractal and Multifractal Models Applied to Porous Media. *Vadose Zone Journal*, **2009**, 8, 174-176	2.7	15
24	Modeling Multifractal Features of Soil Particle Size Distributions with Kolmogorov Fragmentation Algorithms. *Vadose Zone Journal*, **2009**, 8, 202-208	2.7	11
23	Log selfsimilarity of continuous soil Particle-size distributions estimated using random multiplicative cascades. *Clays and Clay Minerals*, **2008**, 56, 389-395	2.1	5
22	A Fractal Interaction Model for Winding Paths through Complex Distributions: Application to Soil Drainage Networks. *Pure and Applied Geophysics*, **2008**, 165, 1153-1165	2.2	6
21	Testing Logselfsimilarity of Soil Particle Size Distribution: Simulation with Minimum Inputs. *Pure and Applied Geophysics*, **2008**, 165, 1117-1129	2.2	1
20	A Fractal Interaction Model for Winding Paths through Complex Distributions: Application to Soil Drainage Networks **2008**, 1153-1165		
19	Testing Logselfsimilarity of Soil Particle Size Distribution: Simulation with Minimum Inputs **2008**, 1117-1129		
18	Mathematical modelling of leaching by irregular wetting fronts in chemically heterogeneous porous media. *Geoderma*, **2006**, 134, 267-273	6.7	3
17	Inter-scale behavior of balanced entropy for soil texture. *Geoderma*, **2006**, 134, 415-427	6.7	2
16	BALANCED ENTROPY INDEX TO CHARACTERIZE SOIL TEXTURE FOR SOIL WATER RETENTION ESTIMATION. *Soil Science*, **2005**, 170, 759-766	0.9	12
15	Scaling, fractals and diversity in soils and ecohydrology. *Ecological Modelling*, **2005**, 182, 217-220	3	17
14	An entropy-based heterogeneity index for mass–size distributions in Earth science. *Ecological Modelling*, **2005**, 182, 221-228	3	21
13	Multifractal scaling of soil spatial variability. *Ecological Modelling*, **2005**, 182, 291-303	3	69
12	Hölder spectrum of dry grain volume-size distributions in soil. *Geoderma*, **2003**, 112, 197-204	6.7	24
11	Rényi dimensions of soil pore size distribution. *Geoderma*, **2003**, 112, 205-216	6.7	62
10	Laser diffraction and multifractal analysis for the characterization of dry soil volume-size distributions. *Soil and Tillage Research*, **2002**, 64, 113-123	6.5	65

9	SINGULARITY FEATURES OF PORE-SIZE SOIL DISTRIBUTION: SINGULARITY STRENGTH ANALYSIS AND ENTROPY SPECTRUM. *Fractals*, **2001**, 09, 305-316	3.2 37
8	An entropy-based parametrization of soil texture via fractal modelling of particle-size distribution. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2001**, 457, 937-947	2.4 21
7	On the parametrization of self-similar and other fractal sets. *Proceedings of the American Mathematical Society*, **2000**, 128, 2641-2648	0.8 7
6	On the role of Shannon's entropy as a measure of heterogeneity. *Geoderma*, **2000**, 98, 1-3	6.7 28
5	Simulation and testing of self-similar structures for soil particle-size distributions using iterated function systems. *Geoderma*, **1999**, 88, 191-203	6.7 36
4	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	2.4 51
3	Hausdorff measures, Hölder continuous maps and self-similar fractals. *Mathematical Proceedings of the Cambridge Philosophical Society*, **1993**, 114, 37-42	0.7 7
2	k-Dimensional Regularity Classifications for s-Fractals. *Transactions of the American Mathematical Society*, **1988**, 305, 293	1 10
1	Enterotype-like microbiome stratification as emergent structure in complex adaptive systems: A mathematical model. *Fractals*,	3.2 1