Jose Andrade

List of Publications by Year
in descending order

267 papers	9,055 citations	50276 46 h-index	54911 84 g-index
269 all docs	269 docs citations	269 times ranked	6586 citing authors

#	Article	IF	Citations
1	Self-similar but not conformally invariant traces obtained by modified Loewner forces. Physical Review E, 2022, 105, 024103.	2.1	3
2	Dynamics of Racial Residential Segregation and Gentrification in New York City. Frontiers in Physics, 2022, 9, .	2.1	3
3	Fast algorithm to identify minimal patterns of synchrony through fibration symmetries in large directed networks. Chaos, 2022, 32, 033120.	2.5	2
4	Bubble Dynamics in Stationary Two-phase Flow Through Disordered Porous Media. Frontiers in Physics, 2022, 10, .	2.1	1
5	Digital contact tracing and network theory to stop the spread of COVID-19 using big-data on human mobility geolocalization. PLoS Computational Biology, 2022, 18, e1009865.	3.2	16
6	Impact of one-way streets on the asymmetry of the shortest commuting routes. Physical Review Research, 2022, 4, .	3.6	0
7	Morphological Transition between Patterns Formed by Threads of Magnetic Beads. Physical Review Letters, 2021, 126, 118001.	7.8	2
8	Flow through time–evolving porous media: Swelling and erosion. Journal of Computational Science, 2021, 53, 101360.	2.9	14
9	Eye-tracking as a proxy for coherence and complexity of texts. PLoS ONE, 2021, 16, e0260236.	2.5	5
10	Predicting dengue outbreaks at neighbourhood level using human mobility in urban areas. Journal of the Royal Society Interface, 2020, 17, 20200691.	3.4	34
11	Frustrated Bearings. Physical Review Letters, 2020, 125, 104301.	7.8	3
12	Mapping the local viscosity of non-Newtonian fluids flowing through disordered porous structures. Scientific Reports, 2020, 10, 11733.	3.3	19
13	Circuits with broken fibration symmetries perform core logic computations in biological networks. PLoS Computational Biology, 2020, 16, e1007776.	3.2	6
14	CFD simulation of the wind field over a terrain with sand fences: Critical spacing for the wind shear velocity. Aeolian Research, 2020, 43, 100574.	2.7	23
15	Time evolution of the behaviour of Brazilian legislative Representatives using a complex network approach. PLoS ONE, 2020, 15, e0226504.	2.5	1
16	Flow through three-dimensional self-affine fractures. Physical Review Fluids, 2020, 5, .	2.5	6
17	Cracking urban mobility. Physical Review Research, 2020, 2, .	3.6	5
18	A universal approach for drainage basins. Scientific Reports, 2019, 9, 9845.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Fundraising and vote distribution: A non-equilibrium statistical approach. PLoS ONE, 2019, 14, e0223059.	2.5	1
20	Determination of the Effective Viscosity of Non-newtonian Fluids Flowing Through Porous Media. Frontiers in Physics, 2019, 7, .	2.1	41
21	The hidden traits of endemic illiteracy in cities. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 566-574.	2.6	5
22	Self-organization in purely viscous non-Newtonian turbulence. Physical Review Fluids, 2019, 4, .	2.5	2
23	Partial obstruction of flow through a channel. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 2019-2026.	2.6	0
24	Elastic Backbone Defines a New Transition in the Percolation Model. Physical Review Letters, 2018, 120, 175701.	7.8	11
25	The light pollution as a surrogate for urban population of the US cities. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1088-1096.	2.6	15
26	Traveling heterogeneity in public transportation. EPJ Data Science, 2018, 7, .	2.8	9
27	Percolation on an isotropically directed lattice. Physical Review E, 2018, 98, .	2.1	9
28	Symbiotic contact process: Phase transitions, hysteresis cycles, and bistability. Physical Review E, 2018, 98, .	2.1	6
29	Overdamped dynamics of particles with repulsive power-law interactions. Physical Review E, 2018, 98, .	2.1	13
30	Decentralized navigation of multiple packages on transportation networks. Physical Review E, 2018, 98, .	2.1	4
31	The price of a vote: Diseconomy in proportional elections. PLoS ONE, 2018, 13, e0201654.	2.5	10
32	Dynamics in the Fitness-Income plane: Brazilian states vs World countries. PLoS ONE, 2018, 13, e0197616.	2.5	22
33	A comparison of hydrological and topological watersheds. Scientific Reports, 2018, 8, 10586.	3.3	2
34	A worldwide model for boundaries of urban settlements. Royal Society Open Science, 2018, 5, 180468.	2.4	13
35	Optimal array of sand fences. Scientific Reports, 2017, 7, 45148.	3.3	44
36	Influence of scene structure and content on visual search strategies. Journal of the Royal Society Interface, 2017, 14, 20170406.	3.4	4

#	Article	IF	Citations
37	Confined sandpile in two dimensions: Percolation and singular diffusion. Physical Review E, 2017, 96, 052123.	2.1	1
38	Targeted Recovery as an Effective Strategy against Epidemic Spreading. Scientific Reports, 2017, 7, 14356.	3.3	7
39	Human mobility in large cities as a proxy for crime. PLoS ONE, 2017, 12, e0171609.	2.5	39
40	Gender differences in scientific collaborations: Women are more egalitarian than men. PLoS ONE, 2017, 12, e0176791.	2.5	68
41	Entropy Production and the Pressure–Volume Curve of the Lung. Frontiers in Physiology, 2016, 7, 73.	2.8	15
42	Characterizing the intrinsic correlations of scale-free networks. International Journal of Modern Physics C, 2016, 27, 1650024.	1.7	6
43	Crumpling Damaged Graphene. Scientific Reports, 2016, 6, 25891.	3.3	11
44	Persistence in eye movement during visual search. Scientific Reports, 2016, 6, 20815.	3.3	39
45	Itinerant Conductance in Fuse-Antifuse Networks. Physical Review Letters, 2016, 117, 275702.	7.8	6
46	Variability in individual activity bursts improves ant foraging success. Journal of the Royal Society Interface, 2016, 13, 20160856.	3.4	12
47	Homeostatic maintenance via degradation and repair of elastic fibers under tension. Scientific Reports, 2016, 6, 27474.	3.3	10
48	Keep-Left Behavior Induced by Asymmetrically Profiled Walls. Physical Review X, 2016, 6, .	8.9	14
49	Stochastic Loewner evolution relates anomalous diffusion and anisotropic percolation. Physical Review E, 2016, 93, 042124.	2.1	5
50	General continuum approach for dissipative systems of repulsive particles. Physical Review E, 2016, 93, 060103.	2.1	15
51	Majority-vote model on spatially embedded networks: Crossover from mean-field to Ising universality classes. Physical Review E, 2016, 93, 052101.	2.1	8
52	Mesoscopic approach to subcritical fatigue crack growth. Physical Review E, 2016, 94, 043003.	2.1	1
53	Model for the growth of the world airline network. International Journal of Modern Physics C, 2016, 27, 1650141.	1.7	5
54	Extended uncertainty from first principles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 367-370.	4.1	63

#	ARTICLE	IF	CITATIONS
55	The Cacophony of Interconnected Networks. Understanding Complex Systems, 2016, , 141-148.	0.6	0
56	Complex networks from space-filling bearings. Physical Review E, 2015, 92, 012802.	2.1	14
57	How does public opinion become extreme?. Scientific Reports, 2015, 5, 10032.	3.3	70
58	Watersheds in disordered media. Frontiers in Physics, 2015, 3, .	2.1	0
59	Fluid flow through packings of rotating obstacles. Physical Review E, 2015, 91, 033002.	2.1	3
60	Fragmentation processes in two-phase materials. Physical Review E, 2015, 91, 012402.	2.1	14
61	Singular diffusion in a confined sandpile. Europhysics Letters, 2015, 109, 14007.	2.0	3
62	Mandala Networks: ultra-small-world and highly sparse graphs. Scientific Reports, 2015, 5, 9082.	3.3	23
63	Improving the analysis of well-logs by wavelet cross-correlation. Physica A: Statistical Mechanics and Its Applications, 2015, 417, 130-140.	2.6	5
64	Large cities are less green. Scientific Reports, 2014, 4, 4235.	3.3	108
65	Morphodynamic modeling of aeolian dunes: Review and future plans. European Physical Journal: Special Topics, 2014, 223, 2269-2283.	2.6	37
66	Enhanced flow of core-softened fluids through narrow nanotubes. Journal of Chemical Physics, 2014, 140, 194504.	3.0	23
67	Explosive Electric Breakdown due to Conducting-Particle Deposition on an Insulating Substrate. Physical Review Letters, 2014, 113, 155701.	7.8	11
68	Enhanced Flow in Small-World Networks. Physical Review Letters, 2014, 112, 148701.	7.8	51
69	Statistical Signs of Social Influence on Suicides. Scientific Reports, 2014, 4, 6239.	3.3	24
70	Reservoir mapping by global correlation analysis. International Journal of Rock Mechanics and Minings Sciences, 2014, 67, 181-183.	5.8	1
71	Avoiding catastrophic failure in correlated networks of networks. Nature Physics, 2014, 10, 762-767.	16.7	219
72	Modelling the influence of photospheric turbulence on solar flare statistics. Nature Communications, 2014, 5, 5035.	12.8	15

#	Article	IF	Citations
73	A scenario planning approach for disasters on Swiss road network. International Journal of Modern Physics C, 2014, 25, 1450067.	1.7	3
74	Searching for superspreaders of information in real-world social media. Scientific Reports, 2014, 4, 5547.	3.3	290
75	Collaboration Networks from a Large CV Database: Dynamics, Topology and Bonus Impact. PLoS ONE, 2014, 9, e90537.	2.5	17
76	Optimal Synchronizability of Bearings. Physical Review Letters, 2013, 110, 064106.	7.8	15
77	A first principles calculation of the oxygen uptake in the human pulmonary acinus at maximal exercise. Respiratory Physiology and Neurobiology, 2013, 185, 625-638.	1.6	14
78	Morse potential derived from first principles. Europhysics Letters, 2013, 101, 10009.	2.0	65
79	Breathing synchronization in interconnected networks. Scientific Reports, 2013, 3, 3289.	3.3	51
80	Optimal transport exponent in spatially embedded networks. Physical Review E, 2013, 87, 042810.	2.1	43
81	GEOMETRICAL AND TRANSPORT PROPERTIES OF SEQUENTIAL ADSORPTION CLUSTERS. International Journal of Modern Physics C, 2013, 24, 1350031.	1.7	0
82	Origins of power-law degree distribution in the heterogeneity of human activity in social networks. Scientific Reports, 2013, 3, 1783.	3.3	144
83	Numerical modeling of the wind flow over a transverse dune. Scientific Reports, 2013, 3, 2858.	3.3	46
84	IMDB Network Revisited: Unveiling Fractal and Modular Properties from a Typical Small-World Network. PLoS ONE, 2013, 8, e66443.	2.5	22
85	A Solution to the Challenge of Optimization on ''Golf-Course''-Like Fitness Landscapes. PLoS ONE, 2013, 8, e78401.	2.5	2
86	Subcritical fatigue in fuse networks. Europhysics Letters, 2012, 100, 36006.	2.0	6
87	Fracturing ranked surfaces. Scientific Reports, 2012, 2, 348.	3.3	40
88	Statistical patterns of visual search for hidden objects. Scientific Reports, 2012, 2, 920.	3.3	22
89	How to suppress undesired synchronization. Scientific Reports, 2012, 2, 658.	3.3	57
90	Fracturing Highly Disordered Materials. Physical Review Letters, 2012, 109, 255701.	7.8	48

#	Article	IF	Citations
91	Linear stability analysis of transverse dunes. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4606-4614.	2.6	24
92	Analytical results for long-time behavior in anomalous diffusion. Physical Review E, 2012, 86, 021121.	2.1	29
93	Box-covering algorithm for fractal dimension of complex networks. Physical Review E, 2012, 86, 016707.	2.1	52
94	How dense can one pack spheres of arbitrary size distribution?. Europhysics Letters, 2012, 97, 18004.	2.0	19
95	Nonlocal product rules for percolation. Physical Review E, 2012, 85, 041112.	2.1	15
96	Corrections to scaling for watersheds, optimal path cracks, and bridge lines. Physical Review E, 2012, 86, 011117.	2.1	15
97	Post-breakthrough scaling in reservoir field simulation. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3219-3226.	2.6	13
98	Transport on exploding percolation clusters. Physical Review E, 2011, 83, 031133.	2.1	30
99	Onion-like network topology enhances robustness against malicious attacks. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01027.	2.3	123
100	Fractality of eroded coastlines of correlated landscapes. Physical Review E, 2011, 84, 016102.	2.1	23
101	Geometrical and Anderson transitions in harmonic chains with constrained long-range couplings. Physical Review E, 2011, 84, 041110.	2.1	12
102	Displacement operator for quantum systems with position-dependent mass. Physical Review A, 2011, 84, .	2.5	94
103	Particle capture into the lung made simple?. Journal of Applied Physiology, 2011, 110, 1664-1673.	2.5	19
104	Ubiquitous Fractal Dimension of Optimal Paths. Computing in Science and Engineering, 2011, 13, 74-81.	1.2	14
105	A micromechanical model of collapsing quicksand. Granular Matter, 2011, 13, 219-223.	2.2	11
106	Particle transport in flow through a ratchet-like channel. Microfluidics and Nanofluidics, 2011, 10, 543-550.	2.2	13
107	Conditions for nonmonotonic vortex interaction in two-band superconductors. Physical Review B, 2011, 83, .	3.2	52
108	Tricritical Point in Explosive Percolation. Physical Review Letters, 2011, 106, 095703.	7.8	78

#	Article	IF	Citations
109	Transverse Instability of Dunes. Physical Review Letters, 2011, 107, 188001.	7.8	45
110	Oil displacement through a porous medium with a temperature gradient. Physical Review E, 2011, 83, 066307.	2.1	5
111	Impact of Perturbations on Watersheds. Physical Review Letters, 2011, 106, 048501.	7.8	25
112	Andrade<i>etÂal.</i>Reply:. Physical Review Letters, 2011, 107, .	7.8	15
113	Optimal-path cracks in correlated and uncorrelated lattices. Physical Review E, 2011, 83, 046113.	2.1	25
114	Scaling relations for watersheds. Physical Review E, 2011, 84, 036116.	2.1	26
115	Mitigation of malicious attacks on networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3838-3841.	7.1	752
116	Superdiffusion of massive particles induced by multi-scale velocity fields. Europhysics Letters, 2010, 91, 28006.	2.0	3
117	Iterative decomposition of Barabasiâ€"Albert scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3674-3677.	2.6	1
118	Particle separation in a ramified structure. Chemical Engineering Science, 2010, 65, 1400-1406.	3.8	7
119	Modularity map of the network of human cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5750-5755.	7.1	40
120	Thermostatistics of Overdamped Motion of Interacting Particles. Physical Review Letters, 2010, 105, 260601.	7.8	147
121	Biased percolation on scale-free networks. Physical Review E, 2010, 81, 011102.	2.1	36
122	Fluid flow through Apollonian packings. Physical Review E, 2010, 81, 047302.	2.1	9
123	Bose-Einstein condensation in the Apollonian complex network. Physical Review E, 2010, 81, 030104.	2.1	26
124	INVASION PERCOLATION WITH A HARDENING INTERFACE UNDER GRAVITY. International Journal of Modern Physics C, 2010, 21, 903-914.	1.7	4
125	Self-organized percolation in multi-layered structures. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P03026.	2.3	14
126	Towards Design Principles for Optimal Transport Networks. Physical Review Letters, 2010, 104, 018701.	7.8	147

#	Article	IF	Citations
127	Topography of inland deltas: Observations, modeling, and experiments. Geophysical Research Letters, 2010, 37, .	4.0	9
128	Hamiltonian approach for explosive percolation. Physical Review E, 2010, 81, 040101.	2.1	55
129	Tactical Voting in Plurality Elections. PLoS ONE, 2010, 5, e12446.	2.5	42
130	Free-electron gas in the Apollonian network: Multifractal energy spectrum and its thermodynamic fingerprints. Physical Review E, 2009, 79, 016104.	2.1	37
131	Non-Newtonian Fluid Flow through Three-Dimensional Disordered Porous Media. Physical Review Letters, 2009, 103, 194502.	7.8	77
132	Ising model on the Apollonian network with node-dependent interactions. Physical Review E, 2009, 79, 036105.	2.1	32
133	Model of overdamped motion of interacting magnetic vortices through narrow superconducting channels. Physical Review B, 2009, 80, .	3.2	13
134	PARTICLE TRANSPORT IN ROUGH CHANNELS. International Journal of Modern Physics C, 2009, 20, 1199-1209.	1.7	3
135	Crackling noise in sub-critical fracture of heterogeneous materials. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01021.	2.3	18
136	New efficient methods for calculating watersheds. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P09007.	2.3	31
137	Living quicksand. Granular Matter, 2009, 11, 67-71.	2.2	11
138	Numerical simulation of particle flow in a sand trap. Granular Matter, 2009, 11, 193-200.	2.2	5
139	Sand transport on Mars. Computer Physics Communications, 2009, 180, 609-611.	7.5	12
140	Collapsing granular suspensions. European Physical Journal E, 2009, 30, 275-81.	1.6	12
141	Fracturing the Optimal Paths. Physical Review Letters, 2009, 103, 225503.	7.8	54
142	How to Make a Fragile Network Robust and Vice Versa. Physical Review Letters, 2009, 102, 018701.	7.8	116
143	Simulation of birdfoot delta formation with application to the Mississippi Delta. Journal of Geophysical Research, 2009, 114, .	3.3	29
144	Mechanical behavior of â€œliving quicksandâ€• Simulation and Experiment. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
145	Dynamical response to perturbation of critical Boolean networks. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5647-5652.	2.6	0
146	Inertial capture in flow through porous media. European Physical Journal B, 2008, 64, 433-436.	1.5	4
147	Quantitative Analysis of the Oxygen Transfer in the Human Acinus. Advances in Experimental Medicine and Biology, 2008, 605, 167-172.	1.6	7
148	Laws of population growth. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18702-18707.	7.1	299
149	CORRELATIONS BETWEEN POLITICAL PARTY SIZE AND VOTER MEMORY: A STATISTICAL ANALYSIS OF OPINION POLLS. International Journal of Modern Physics C, 2008, 19, 1647-1657.	1.7	13
150	Passivation of irregular surfaces accessed by diffusion. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7636-7640.	7.1	22
151	Model for erosion-deposition patterns. Physical Review E, 2008, 77, 061402.	2.1	1
152	Giant saltation on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6222-6226.	7.1	144
153	Finite-size effects for percolation on Apollonian networks. Physical Review E, 2008, 78, 066112.	2.1	22
154	Multiple-well invasion percolation. Physical Review E, 2008, 77, 041410.	2.1	4
155	Universality behind Basquinâ€™s Law of Fatigue. Physical Review Letters, 2008, 100, 094301.	7.8	131
156	Subcritical Crack Growth: The Microscopic Origin of Parisâ€™ Law. Physical Review Letters, 2008, 100, 195503.	7.8	16
157	Reply to Andreotti: Consistent saltation height measurements and physical assumptions. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, .	7.1	1
158	Modeling river delta formation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16804-16809.	7.1	87
159	Fatigue failure of disordered materials. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P02003-P02003.	2.3	31
160	The spread of gossip in American schools. Europhysics Letters, 2007, 78, 68005.	2.0	41
161	Analytical approach to directed sandpile models on the Apollonian network. Physical Review E, 2007, 76, 026111.	2.1	16
162	Different topologies for a herding model of opinion. Physical Review E, 2007, 75, 066108.	2.1	42

#	Article	IF	Citations
163	Screening Effects in Flow through Rough Channels. Physical Review Letters, 2007, 98, 194101.	7.8	8
164	Spreading gossip in social networks. Physical Review E, 2007, 76, 036117.	2.1	116
165	Computer simulation of fatigue under diametrical compression. Physical Review E, 2007, 75, 046115.	2.1	25
166	Particles in fluids. Computer Physics Communications, 2007, 177, 158-161.	7.5	2
167	Aeolian transport of sand. European Physical Journal E, 2007, 22, 195-200.	1.6	13
168	Particles in fluids. European Physical Journal: Special Topics, 2007, 143, 181-189.	2.6	6
169	THREE-DIMENSIONAL APOLLONIAN NETWORKS. International Journal of Modern Physics C, 2006, 17, 1219-1226.	1.7	10
170	The complex topology of chemical plants. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 637-643.	2.6	12
171	Transport of particles in fluids. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 374-386.	2.6	4
172	PLURALITY VOTING: THE STATISTICAL LAWS OF DEMOCRACY IN BRAZIL. International Journal of Modern Physics C, 2006, 17, 1809-1813.	1.7	25
173	Distribution of local fluxes in diluted porous media. Physical Review E, 2006, 74, 010401.	2.1	35
174	Aeolian Transport Layer. Physical Review Letters, 2006, 96, 018001.	7.8	63
175	Critical Role of Gravity in Filters. Physical Review Letters, 2006, 97, 138001.	7.8	24
176	Periodic neural activity induced by network complexity. Physical Review E, 2006, 74, 017102.	2.1	19
177	Competitive cluster growth in complex networks. Physical Review E, 2006, 73, 065101.	2.1	53
178	Precise calculation of the threshold of various directed percolation models on a square lattice. Journal of Physics A, 2005, 38, L413-L415.	1.6	0
179	Mechanical interactions between collagen and proteoglycans: implications for the stability of lung tissue. Journal of Applied Physiology, 2005, 98, 672-679.	2.5	221
180	Calculation of the separation streamlines of barchans and transverse dunes. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 44-49.	2.6	42

#	ARTICLE	IF	CITATIONS
181	New simple properties of a few irregular systems. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 1-17.	2.6	6
182	Deactivation dynamics of rough catalytic surfaces. AICHE Journal, 2005, 51, 998-1008.	3.6	3
183	Publisher's Note: Multiple invaded consolidating materials [Phys. Rev. E70, 066150 (2004)]. Physical Review E, 2005, 71, .	2.1	0
184	Memory effects on the statistics of fragmentation. Physical Review E, 2005, 71, 036119.	2.1	5
185	Invasion percolation between two sites. Physical Review E, 2005, 72, 041404.	2.1	20
186	MASS DISTRIBUTION OF A TWO-DIMENSIONAL FRAGMENTATION PROCESS. International Journal of Modern Physics C, 2005, 16, 253-258.	1.7	2
187	Nanopercolation. Nano Letters, 2005, 5, 1483-1486.	9.1	3
188	Apollonian Networks: Simultaneously Scale-Free, Small World, Euclidean, Space Filling, and with Matching Graphs. Physical Review Letters, 2005, 94, 018702.	7.8	332
189	N-dimensional fractional diffusion equation and Green function approach: Spatially dependent diffusion coefficient and external force. Physical Review E, 2005, 71, 052101.	2.1	29
190	Mauroyet al.Reply:. Physical Review Letters, 2004, 93, .	7.8	1
191	Multiple invaded consolidating materials. Physical Review E, 2004, 70, 066150.	2.1	9
192	LAPLACIAN TRANSPORT TOWARDS PARTIALLY PASSIVATED 2D IRREGULAR INTERFACES: A CONJECTURAL EXTENSION OF THE MAKAROV THEOREM. Fractals, 2004, 12, 381-387.	3.7	1
193	Vortex nucleation and flux front propagation in type II superconductors. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 383-387.	2.6	2
194	Heat transport through rough channels. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 296-310.	2.6	25
195	Mathematical aspects of deactivation processes of rough catalytic surfaces. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 395-401.	2.6	0
196	Heat transport through rough channels. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 296-296.	2.6	0
197	ON THE ACTIVITY OF ABSORBING IRREGULAR INTERFACES. , 2004, , .		0
198	Tsallis thermostatistics for finite systems: a Hamiltonian approach. Physica A: Statistical Mechanics and Its Applications, 2003, 322, 276-284.	2.6	46

#	ARTICLE	IF	CITATIONS
199	Brazilian elections: voting for a scaling democracy. Physica A: Statistical Mechanics and Its Applications, 2003, 322, 698-700.	2.6	43
200	Wind velocity and sand transport on a barchan dune. Geomorphology, 2003, 54, 245-255.	2.6	97
201	Scaling behavior of diffusion and reaction processes in percolating porous media. Physical Review E, 2003, 67, 061406.	2.1	23
202	Generalized Zipf's law in proportional voting processes. Europhysics Letters, 2003, 62, 131-137.	2.0	32
203	Statistics of the critical percolation backbone with spatial long-range correlations. Physical Review E, 2003, 67, 027102.	2.1	17
204	Transition from Knudsen to molecular diffusion in activity of absorbing irregular interfaces. Physical Review E, 2003, 68, 041608.	2.1	9
205	Interplay between Geometry and Flow Distribution in an Airway Tree. Physical Review Letters, 2003, 90, 148101.	7.8	63
206	FLUID FLOW THROUGH DISORDERED POROUS MEDIA. Fractals, 2003, 11, 301-312.	3.7	4
207	Deblocking of interacting particle assemblies: from pinning to jamming. Brazilian Journal of Physics, 2003, 33, 557-572.	1.4	12
208	Traveling length and minimal traveling time for flow through percolation networks with long-range spatial correlations. Physical Review E, 2002, 66, 046304.	2.1	28
209	Reply to â€œComment on â€˜Scaling behavior in explosive fragmentationâ€™ â€•. Physical Review E, 2002, 65, .	2.1	4
210	Extremum Statistics in Scale-Free Network Models. Physical Review Letters, 2002, 89, 268703.	7.8	36
211	Boundary effects on flux penetration in disordered superconductors. Physical Review B, 2002, 66, .	3.2	9
212	Extended phase-space dynamics for the generalized nonextensive thermostatistics. Physical Review E, 2002, 65, 036121.	2.1	35
213	Self-organized percolation growth in regular and disordered lattices. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 313-319.	2.6	10
214	SZNAJD SOCIAL MODEL ON SQUARE LATTICE WITH CORRELATED PERCOLATION. International Journal of Modern Physics C, 2001, 12, 39-42.	1.7	35
215	Physics of the cigarette filter: fluid flow through structures with randomly-placed obstacles. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 17-30.	2.6	28
216	Catalytic effectiveness of irregular interfaces and rough pores: the â€œland surveyor approximationâ€•. Chemical Engineering Science, 2001, 56, 5011-5023.	3.8	19

#	Article	IF	Citations
217	Analytical approximation for diffusion-reaction processes in rough pores. Europhysics Letters, 2001, 55, 573-579.	2.0	7
218	Additivity of vibrational density of states in two-dimensional mesoscopic systems. Physical Review B, 2001, 63, .	3.2	2
219	Flux Front Penetration in Disordered Superconductors. Physical Review Letters, 2001, 86, 3622-3625.	7.8	41
220	Dynamics of viscous penetration in percolation porous media. Physical Review E, 2001, 63, 051403.	2.1	20
221	The ferromagnetic Ising model on a Voronoiâ€"Delaunay lattice. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 100-106.	2.6	26
222	Tsallis nonextensive statistics with normalized q-expectation values: thermodynamical stability and simple illustrations. Physica A: Statistical Mechanics and Its Applications, 2000, 275, 396-404.	2.6	7
223	Charge transport in a dynamical system of interacting particles. Physica A: Statistical Mechanics and Its Applications, 2000, 278, 538-552.	2.6	0
224	Continuous phase transition in a disordered eight-states Potts model. European Physical Journal B, 2000, 13, 107-110.	1.5	6
225	Depinning of interacting particles in random media. Physical Review B, 2000, 61, 14791-14794.	3.2	4
226	Tracer dispersion in a percolation network with spatial correlations. Physical Review E, 2000, 61, 583-586.	2.1	61
227	Scaling behavior in explosive fragmentation. Physical Review E, 2000, 62, 4742-4746.	2.1	45
228	Flow between two sites on a percolation cluster. Physical Review E, 2000, 62, 8270-8281.	2.1	67
229	Critical behavior of a three-state Potts model on a Voronoi lattice. European Physical Journal B, 2000, 17, 111-114.	1.5	25
230	Scaling behavior in crackle sound during lung inflation. Physical Review E, 1999, 60, 4659-4663.	2.1	26
231	Traveling time and traveling length in critical percolation clusters. Physical Review E, 1999, 60, 3425-3428.	2.1	92
232	Fluid flow through ramified structures. Physical Review E, 1999, 60, 5486-5494.	2.1	16
233	Scaling behavior in a proportional voting process. Physical Review E, 1999, 60, 1067-1068.	2.1	89
234	The role of inertia on fluid flow through disordered porous media. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 420-424.	2.6	16

#	Article	IF	Citations
235	Predicting oil recovery using percolation. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 107-114.	2.6	40
236	Percolation phenomena: a broad-brush introduction with some recent applications to porous media, liquid water, and city growth. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 5-16.	2.6	52
237	Inertial Effects on Fluid Flow through Disordered Porous Media. Physical Review Letters, 1999, 82, 5249-5252.	7.8	205
238	Life-support system benefits from noise. Nature, 1998, 393, 127-128.	27.8	223
239	Percolation conduction in vapour grown carbon fibre. Physica A: Statistical Mechanics and Its Applications, 1998, 248, 227-234.	2.6	13
240	Mathematical Modeling of the First Inflation of Degassed Lungs. Annals of Biomedical Engineering, 1998, 26, 608-617.	2.5	30
241	Modeling urban growth patterns with correlated percolation. Physical Review E, 1998, 58, 7054-7062.	2.1	205
242	Asymmetric Flow in Symmetric Branched Structures. Physical Review Letters, 1998, 81, 926-929.	7.8	55
243	Scale-invariant correlations in the biological and social sciences. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1373-1388.	0.6	10
244	Fluid Flow through Porous Media: The Role of Stagnant Zones. Physical Review Letters, 1997, 79, 3901-3904.	7.8	104
245	Volume distributions of avalanches in lung inflation: A statistical mechanical approach. Physical Review E, 1997, 56, 3385-3394.	2.1	14
246	Diffusion and reaction in percolating pore networks. Physical Review E, 1997, 55, 772-777.	2.1	35
247	Self-organized percolation. Physical Review E, 1997, 56, R2379-R2382.	2.1	37
248	Self-organization in growth of branched polymers. Physica A: Statistical Mechanics and Its Applications, 1997, 238, 163-171.	2.6	23
249	Percolation transition in conducting polymer networks. Physical Review B, 1996, 54, 3910-3915.	3.2	13
250	TRANSPORT PHENOMENA IN PERCOLATING STRUCTURES: A KEY FOR THE ANALYSIS AND REINTERPRETATION OF SOME PRACTICAL MODELING PROBLEMS. Fractals, 1996, 04, 227-235.	3.7	0
251	A network model for diffusion and adsorption in compacted pellets of bidisperse grains. Chemical Engineering Science, 1995, 50, 1943-1951.	3.8	8
252	Self-organized criticality in the El NiÃ±o Southern oscillation. Physica A: Statistical Mechanics and Its Applications, 1995, 215, 331-338.	2.6	12

#	Article	IF	Citations
253	Controlling chaos by pinning neurons in a neural network. Physical Review E, 1995, 52, R2129-R2132.	2.1	7
254	Percolation disorder in viscous and nonviscous flow through porous media. Physical Review E, 1995, 51, 5725-5731.	2.1	40
255	A random network model for electrical transport in conducting polymers. Synthetic Metals, 1995, 68, 167-172.	3.9	16
256	A mathematical model for Ti diffusion in LiNbO3. Journal of Physics Condensed Matter, 1994, 6, 4067-4076.	1.8	7
257	Molecular dynamics and 1/fnoise in conductivity fluctuations. Physical Review B, 1994, 49, 13208-13210.	3.2	2
258	1/Æ' noise and chaos in analog neural networks. Physica A: Statistical Mechanics and Its Applications, 1994, 206, 271-282.	2.6	4
259	Hydrodynamic dispersion in binary packings of spheres. Physica A: Statistical Mechanics and Its Applications, 1993, 199, 431-444.	2.6	3
260	On the permeability of binary packings of spheres. Chemical Engineering and Technology, 1992, 15, 11-14.	1.5	5
261	Consistent evaluation of effective diffusion and reaction in pore networks. Chemical Engineering Science, 1992, 47, 2751-2756.	3.8	36
262	Shape selectivity in porous catalysts. Journal of Catalysis, 1991, 131, 319-325.	6.2	5
263	Chromatography in pore networks II â€" The role of structure and adsorption in the band broadening. Chromatographia, 1991, 32, 345-349.	1.3	6
264	Percolation disorder in chromatographic systems. Journal of Physics A, 1991, 24, L1379-L1384.	1.6	3
265	Size exclusion chromatography in pore networks. Chromatographia, 1990, 30, 639-644.	1.3	11
266	Tricritical Point in Explosive Percolation. SSRN Electronic Journal, 0, , .	0.4	0
267	Spatio-Temporal Characteristics of Dengue Outbreaks. Frontiers in Physics, 0, 10, .	2.1	1