Alex Hansen

List of Publications by Year
in descending order

213	5,777	37	69
papers	citations	h-index	g-index
		94433	91884

219	219	219	2634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fracture of disordered, elastic lattices in two dimensions. Physical Review B, 1989, 39, 637-648.	3.2	315
2	Experimental measurements of the roughness of brittle cracks. Physical Review Letters, 1992, 68, 213-215.	7.8	284
3	Failure processes in elastic fiber bundles. Reviews of Modern Physics, 2010, 82, 499-555.	45.6	283
4	Determination of the Hurst exponent by use of wavelet transforms. Physical Review E, 1998, 58, 2779-2787.	2.1	220
5	The Distribution of Simultaneous Fiber Failures in Fiber Bundles. Journal of Applied Mechanics, Transactions ASME, 1992, 59, 909-914.	2.2	207
6	A Two-Dimensional Network Simulator for Two-Phase Flow in Porous Media. Transport in Porous Media, 1998, 32, 163-186.	2.6	181
7	Relation between Anomalous and Normal Diffusion in Systems with Memory. Physical Review Letters, 2002, 89, 100601.	7.8	171
8	Roughness of crack interfaces. Physical Review Letters, 1991, 66, 2476-2479.	7.8	164
9	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13799-13806.	7.1	162
10	Analytical Approach to Continuous and Intermittent Bottleneck Flows. Physical Review Letters, 2006, 97, 168001.	7.8	146
11	Fourier acceleration of iterative processes in disordered systems. Journal of Statistical Physics, 1988, 52, 747-773.	1.2	129
12	Klein's Paradox and Its Resolution. Physica Scripta, 1981, 23, 1036-1042.	2.5	121
13	Burst avalanches in bundles of fibers: Local versus global load-sharing. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 184, 394-396.	2.1	117
14	Origin of the Universal Roughness Exponent of Brittle Fracture Surfaces:Stress-Weighted Percolation in the Damage Zone. Physical Review Letters, 2003, 90, 045504.	7.8	100
15	Crossover Behavior in Burst Avalanches: Signature of Imminent Failure. Physical Review Letters, 2005, 95, 125501.	7.8	100
16	Scale-invariant disorder in fracture and related breakdown phenomena. Physical Review B, 1991, 43, 665-678.	3.2	98
17	Statistics of fracture surfaces. Physical Review E, 2007, 75, 016104.	2.1	87
18	Roughness of Two-Dimensional Cracks in Wood. Physical Review Letters, 1994, 73, 834-837.	7.8	83

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19	Rupture of heterogeneous media in the limit of infinite disorder. Journal of Statistical Physics, 1988, 52, 237-244.	1.2	82
20	Fracture in Three-Dimensional Fuse Networks. Physical Review Letters, 1998, 80, 325-328.	7.8	81
21	Fourier Acceleration of Relaxation Processes in Disordered Systems. Physical Review Letters, 1986, 57, 1336-1339.	7.8	70
22	Simulating temporal evolution of pressure in two-phase flow in porous media. Physical Review E, 1998, 58, 2217-2226.	2.1	64
23	Two-Dimensional Magnetotransport According to the Classical Lorentz Model. Physical Review Letters, 1995, 75, 197-200.	7.8	63
24	Immiscible displacement of viscosity-matched fluids in two-dimensional porous media. Physical Review E, 1997, 55, 2969-2975.	2.1	61
25	Roughness of Interfacial Crack Fronts: Stress-Weighted Percolation in the Damage Zone. Physical Review Letters, 2003, 90, 045505.	7.8	60
26	Current distribution in the three-dimensional random resistor network at the percolation threshold. Physical Review E, 1996, 53, 2292-2297.	2.1	59
27	Bulk Flow Regimes and Fractional Flow in 2D Porous Media by Numerical Simulations. Transport in Porous Media, 2002, 47, 99-121.	2.6	51
28	Effective rheology of immiscible two-phase flow in porous media. Europhysics Letters, 2012, 99, 44004.	2.0	49
29	Heterogeneous interfacial failure between two elastic blocks. Physical Review E, 2002, 65, 036126.	2.1	45
30	Topology of fracture networks. Frontiers in Physics, 2013, 1, .	2.1	45
31	Ticking hour glasses: Experimental analysis of intermittent flow. Physical Review E, 1996, 53, 2257-2264.	2.1	44
32	Crossover behavior in failure avalanches. Physical Review E, 2006, 74, 016122.	2.1	43
33	Effective Rheology of Two-Phase Flow in Three-Dimensional Porous Media: Experiment and Simulation. Transport in Porous Media, 2017, 119, 77-94.	2.6	43
34	Universality class of central-force percolation. Physical Review B, 1989, 40, 749-752.	3.2	42
35	Competition between correlated buoyancy and uncorrelated capillary effects during drainage. Physical Review E, 1999, 60, 7224-7234.	2.1	40
36	Ridge network in crumpled paper. Physical Review E, 2007, 76, 026108.	2.1	39

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37	A Dynamic Network Model for Two-Phase Flow in Porous Media. Transport in Porous Media, 2012, 92, 145-164.	2.6	38
38	There is more to be learned from the Lorentz model. Journal of Statistical Physics, 1997, 87, 1205-1228.	1.2	37
39	Fractional Statistics of the Vortex in Two-Dimensional Superfluids. Physical Review Letters, 1985, 54, 1339-1342.	7.8	36
40	Relation between pressure and fractional flow in two-phase flow in porous media. Physical Review E, 2002, 65, 056310.	2.1	36
41	History independence of steady state in simultaneous two-phase flow through two-dimensional porous media. Physical Review E, 2013, 88, 053004.	2.1	36
42	MEASURING HURST EXPONENTS WITH THE FIRST RETURN METHOD. Fractals, 1994, 02, 527-533.	3.7	35
43	Failure properties of loaded fiber bundles having a lower cutoff in fiber threshold distribution. Physical Review E, 2005, 72, 026111.	2.1	34
44	Cluster evolution in steady-state two-phase flow in porous media. Physical Review E, 2006, 73, 026306.	2.1	31
45	Apolar and Polar Solvation Thermodynamics Related to the Protein Unfolding Process. Biophysical Journal, 2002, 82, 713-719.	0.5	30
46	Universality Classes in Constrained Crack Growth. Physical Review Letters, 2013, 111, 135502.	7.8	30
47	Negative moments of the current spectrum in the random-resistor network. Physical Review A, 1988, 38, 3820-3823.	2.5	29
48	A fast algorithm for estimating large-scale permeabilities of correlated anisotropic media. Transport in Porous Media, 1993, 12, 55-72.	2.6	29
49	Crossover behavior in a mixed-mode fiber bundle model. Physical Review E, 2005, 71, 036149.	2.1	29
50	Dynamics of stable viscous displacement in porous media. Physical Review E, 2000, 61, 2936-2946.	2.1	27
51	The Three Extreme Value Distributions: An Introductory Review. Frontiers in Physics, 2020, 8, .	2.1	27
52	Normal stress distribution of rough surfaces in contact. Geophysical Research Letters, 2000, 27, 3639-3642.	4.0	26
53	Effective rheology of bubbles moving in a capillary tube. Physical Review E, 2013, 87, 025001.	2.1	26
54	Effective renormalization group algorithm for transport in oil reservoirs. Physica A: Statistical Mechanics and Its Applications, 1991, 177, 260-266.	2.6	25

#	Article	IF	Citations
55	Permeability of self-affine aperture fields. Physical Review E, 2010, 82, 046108.	2.1	25
56	Study of tracer dispersion in selfâ€affine fractures using latticeâ€“gas automata. Physics of Fluids, 1995, 7, 1938-1948.	4.0	24
57	Onset of localization in heterogeneous interfacial failure. Physical Review E, 2012, 86, 025101.	2.1	24
58	Stable and Efficient Time Integration of a Dynamic Pore Network Model for Two-Phase Flow in Porous Media. Frontiers in Physics, 2018, 6, .	2.1	24
59	N-Dependent Fractional Statistics ofNVortices. Physical Review Letters, 1985, 55, 1431-1434.	7.8	23
60	Can a Local Repulsive Potential Trap an Electron?. Physical Review Letters, 1996, 77, 2149-2153.	7.8	23
61	Pathways in Two-State Protein Folding. Biophysical Journal, 2000, 79, 2722-2727.	0.5	22
62	Topological impact of constrained fracture growth. Frontiers in Physics, 2015, 3, .	2.1	22
63	Minimal path on the hierarchical diamond lattice. Journal of Statistical Physics, 1991, 65, 183-204.	1.2	21
64	Effective rheology of Bingham fluids in a rough channel. Frontiers in Physics, 2014, 2, .	2.1	20
65	Relations Between Seepage Velocities in Immiscible, Incompressible Two-Phase Flow in Porous Media. Transport in Porous Media, 2018, 125, 565-587.	2.6	20
66	A hierarchical scheme for cooperativity and folding in proteins. Physica A: Statistical Mechanics and Its Applications, 1998, 250, 355-361.	2.6	19
67	Roughness of Crack Interfaces in Two-Dimensional Beam Lattices. Physical Review Letters, 2001, 87, 125503.	7.8	19
68	Multifractality in elastic percolation. Journal of Statistical Physics, 1988, 53, 759-771.	1.2	18
69	Accuracy of roughness exponent measurement methods. Physical Review E, 2007, 76, 031136.	2.1	18
70	Local load-sharing fiber bundle model in higher dimensions. Physical Review E, 2015, 92, 020401.	2.1	18
71	Non-isothermal Transport of Multi-phase Fluids in Porous Media. The Entropy Production. Frontiers in Physics, 2018, 6, .	2.1	18
72	Non-isothermal Transport of Multi-phase Fluids in Porous Media. Constitutive Equations. Frontiers in Physics, 2019, 6, .	2.1	18

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73	Critical piezoelectricity in percolation. Journal De Physique, 1989, 50, 2201-2216.	1.8	18
74	WAVELET-BASED MULTISCALING IN SELF-AFFINE RANDOM MEDIA. Fractals, 2000, 08, 403-411.	3.7	17
75	Geometry and dynamics of invasion percolation with correlated buoyancy. Physical Review E, 2000, 61, 3985-3995.	2.1	17
76	Title is missing!. Journal of Statistical Physics, 2001, 102, 1133-1150.	1.2	17
77	Phase Diagram of Optimal Paths. Physical Review Letters, 2004, 93, 040601.	7.8	17
78	The conductor-superconductor transition in disordered superconducting materials. Physica C: Superconductivity and Its Applications, 1990, 167, 433-455.	1.2	16
79	Real-Space Renormalization Estimates for Two-Phase Flow in Porous Media. Transport in Porous Media, 1997, 29, 247-279.	2.6	16
80	Distinguishing fractional and white noise in one and two dimensions. Physical Review E, 2001, 63, 062102.	2.1	16
81	Drainage in a Rough Gouge-Filled Fracture. Transport in Porous Media, 2003, 50, 267-305.	2.6	16
82	Viscous Stabilization of 2D Drainage Displacements with Trapping. Physical Review Letters, 2000, 84, 4589-4592.	7.8	15
83	Local dynamics of a randomly pinned crack front: a numerical study. Frontiers in Physics, 2014, 2, .	2.1	15
84	Effective Rheology of Two-Phase Flow in a Capillary Fiber Bundle Model. Frontiers in Physics, 2019, 7, .	2.1	15
85	Geometry of optimal path hierarchies. Europhysics Letters, 2013, 103, 30003.	2.0	14
86	Film flow dominated simultaneous flow of two viscous incompressible fluids through a porous medium. Frontiers in Physics, 2014, 2, .	2.1	14
87	Fluid Meniscus Algorithms for Dynamic Pore-Network Modeling of Immiscible Two-Phase Flow in Porous Media. Frontiers in Physics, 2021, 8, .	2.1	14
88	MÃlo/yet al. reply. Physical Review Letters, 1993, 71, 205-205.	7.8	13
89	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
90	Cracks in random brittle solids:. European Physical Journal: Special Topics, 2014, 223, 2339-2351.	2.6	13

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91	Pore Network Modeling of the Effects of Viscosity Ratio and Pressure Gradient on Steady-State Incompressible Two-Phase Flow in Porous Media. Transport in Porous Media, 2020, 132, 355-379.	2.6	13
92	Roughness of Brittle Fractures as a Correlated Percolation Problem. Physica Scripta, 2003, T106, 65.	2.5	13
93	A model for Gouge Deformation: Implications for remanent magnetization. Geophysical Research Letters, 1993, 20, 1499-1502.	4.0	12
94	Scaling and dynamics of an interfacial crack front. International Journal of Fracture, 2003, 121, 9-22.	2.2	12
95	A Monte Carlo Algorithm for Immiscible Two-Phase Flow in Porous Media. Transport in Porous Media, 2017, 116, 869-888.	2.6	12
96	Flow-Area Relations in Immiscible Two-Phase Flow in Porous Media. Frontiers in Physics, 2020, 8, .	2.1	12
97	Multifractality of conductance jumps in percolation. Physical Review B, 1991, 43, 3601-3612.	3.2	11
98	Heat Capacity of Protein Folding. Biophysical Journal, 2001, 81, 710-714.	0.5	11
99	Mean-field theory of localization in a fuse model. Physical Review E, 2006, 73, 046103.	2.1	11
100	Flux-dependent percolation transition in immiscible two-phase flows in porous media. Physical Review E, 2009, 79, 036310.	2.1	11
101	Fracture networks in sea ice. Frontiers in Physics, 2014, 2, .	2.1	11
102	Variation of Elastic Energy Shows Reliable Signal of Upcoming Catastrophic Failure. Frontiers in Physics, 2019, 7, .	2.1	11
103	Onsager-Symmetry Obeyed in Athermal Mesoscopic Systems: Two-Phase Flow in Porous Media. Frontiers in Physics, 2020, 8, .	2.1	11
104	Generalized Widom model of amphiphilic systems. Physical Review A, 1991, 44, 3686-3691.	2.5	10
105	Modelling an imperfect market. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 469-478.	2.6	10
106	Protein model exhibiting three folding transitions. Physica A: Statistical Mechanics and Its Applications, 2001, 291, 60-70.	2.6	10
107	Correlation length exponent in the three-dimensional fuse network. Physical Review E, 2004, 70, 036123.	2.1	10
108	Self-affinity in the gradient percolation problem. Physical Review E, 2007, 75, 030102.	2.1	10

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109	Anomalous Diffusion in Systems with Concentration-Dependent Diffusivity: Exact Solutions and Particle Simulations. Frontiers in Physics, 2020, 8, .	2.1	10
110	Thermodynamics of proteins: Fast folders and sharp transitions. Computer Physics Communications, 2002, 147, 307-312.	7.5	9
111	Creep rupture of fiber bundles: A molecular dynamics investigation. Physical Review E, 2015, 92, 022405.	2.1	9
112	Rheology of High-Capillary Number Two-Phase Flow in Porous Media. Frontiers in Physics, 2019, 7, .	2.1	9
113	Rheology of Immiscible Two-phase Flow in Mixed Wet Porous Media: Dynamic Pore Network Model and Capillary Fiber Bundle Model Results. Transport in Porous Media, 2021, 139, 491-512.	2.6	9
114	Surface exponent in percolation and central-force percolation: A test for splay rigidity. Physical Review B, 1988, 38, 5170-5173.	3.2	8
115	Band formation in deposition of fines in porous media. Transport in Porous Media, 1996, 25, 247-273.	2.6	8
116	Thermodynamical Implications of a Protein Model with Water Interactions. Journal of Theoretical Biology, 2001, 210, 367-373.	1.7	8
117	Specific heat upon aqueous unfolding of the protein interior: a theoretical approach. Physica A: Statistical Mechanics and Its Applications, 2002, 304, 355-361.	2.6	8
118	Schmittbuhl, Hansen, and Batrouni Reply:. Physical Review Letters, 2004, 92, .	7.8	8
119	Towards a thermodynamics of immiscible two-phase steady-state flow in porous media. Computational Geosciences, 2009, 13, 227-234.	2.4	8
120	Ensemble distribution for immiscible two-phase flow in porous media. Physical Review E, 2017, 95, 023116.	2.1	8
121	The Co-Moving Velocity in Immiscible Two-Phase Flow in Porous Media. Transport in Porous Media, 2022, 143, 69-102.	2.6	8
122	Comment on â€˜â€˜Analytic model for scaling of breakdownâ€™â€™. Physical Review Letters, 1993, 70, 100-100.	7.8	7
123	Comment on â€œNonstationarity Induced by Long-Time Noise Correlations in the Langevin Equationâ€. Physical Review Letters, 2001, 86, 5839-5839.	7.8	7
124	Model for density waves in gravity-driven granular flow in narrow pipes. Physical Review E, 2010, 81, 061302.	2.1	7
125	Two-phase flow in porous media: power-law scaling of effective permeability. Journal of Physics: Conference Series, 2011, 319, 012009.	0.4	7
126	Network topology of the desert rose. Frontiers in Physics, 2015, 3, .	2.1	7

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127	Dynamic Wettability Alteration in Immiscible Two-phase Flow in Porous Media: Effect on Transport Properties and Critical Slowing Down. Frontiers in Physics, 2015, 3, .	2.1	7
128	Soft-Clamp Fiber Bundle Model and Interfacial Crack Propagation: Comparison Using a Non-linear Imposed Displacement. Frontiers in Physics, 2016, 4, .	2.1	7
129	Multifractality and nonlinear diamagnetic susceptibility in a superconducting network at percolation. Journal De Physique, 1988, 49, 1379-1385.	1.8	7
130	Modelling Fines Mobilization, Migration and Clogging. , 1995, , .		7
131	Burst Dynamics, Upscaling and Dissipation of Slow Drainage in Porous Media. Frontiers in Physics, 2021, 9, .	2.1	7
132	Nyquist noise in a fractal resistor network. Physical Review B, 1986, 33, 649-651.	3.2	6
133	Scaling of Overhang Distribution of Invasion Percolation Fronts. Physica Scripta, 1991, T38, 91-94.	2.5	6
134	A model for the thermodynamics of globular proteins. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 278-287.	2.6	6
135	Diamagnetic susceptibility and current distributions in granular superconductors at percolation. Physical Review B, 2000, 61, 11336-11339.	3.2	6
136	Fast algorithm for generating long self-affine profiles. Physical Review E, 2002, 65, 037701.	2.1	6
137	Comment on â€œDynamical Foundations of Nonextensive Statistical Mechanicsâ€. Physical Review Letters, 2003, 90, 218901; discussion 218902.	7.8	6
138	Roughness exponent measurements for the central force model. Physical Review B, 2007, 76, .	3.2	6
139	Local wettability reversal during steady-state two-phase flow in porous media. Physical Review E, 2011, 84, 037303.	2.1	6
140	Hyperballistic Superdiffusion and Explosive Solutions to the Non-Linear Diffusion Equation. Frontiers in Physics, 2021, 9, .	2.1	6
141	Non-directed polymers in a random medium. Journal De Physique, I, 1993, 3, 1569-1584.	1.2	6
142	Phase transitions and correlations in fracture processes where disorder and stress compete. Physical Review Research, 2020, 2, .	3.6	6
143	Absence of small-scale structure in homogeneous superfluid turbulence. Physical Review B, 1986, 34, 4894-4896.	3.2	5
144	Propagation of order in the dilute antiferromagnetic three-state Potts model. Journal of Statistical Physics, 1989, 55, 341-350.	1.2	5

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145	Percolation in layered media ? A conductivity approach. Transport in Porous Media, 1993, 11, 45-52.	2.6	5
146	Absence of self-averaging in global optimization problems. Physical Review E, 1996, 53, R5541-R5544.	2.1	5
147	Band formation during gaseous diffusion in aerogels. Physical Review E, 1998, 57, 6767-6773.	2.1	5
148	Self-affine crossover length in a layered silicate deposit. Physical Review E, 2004, 69, 036108.	2.1	5
149	Mapping of the Roughness Exponent for the Fuse Model for Fracture. Physical Review Letters, 2008, 100, 045501.	7.8	5
150	Effective Rheology of Bi-viscous Non-newtonian Fluids in Porous Media. Frontiers in Physics, 2020, 7, .	2.1	5
151	Criterion for Imminent Failure During Loadingâ€"Discrete Element Method Analysis. Frontiers in Physics, 2021, 9, .	2.1	5
152	Role of Pore-Size Distribution on Effective Rheology of Two-Phase Flow in Porous Media. Frontiers in Water, 2021, 3, .	2.3	5
153	Disorder. , 1990, , 115-158.		5
154	Comment on "Percolation in Isotropic Elastic Media". Physical Review Letters, 1988, 61, 2501-2501.	7.8	4
155	Critical behaviors of central-force lattices. Physica A: Statistical Mechanics and Its Applications, 1989, 157, 580-586.	2.6	4
156	A geometrical interpretation of the chaotic state of inhomogeneous deterministic cellular automata. Physica A: Statistical Mechanics and Its Applications, 1989, 160, 275-297.	2.6	4
157	Statistical Models of Breakdown and Fracture. Physica Scripta, 1990, T33, 20-31.	2.5	4
158	Semiclassical quantum percolation in the quantum Hall system. Physical Review B, 1995, 51, 5566-5569.	3.2	4
159	Superdiffusive conduction: AC conductivity with correlated noise. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 115-121.	2.6	4
160	Grand challenges in interdisciplinary physics. Frontiers in Physics, 2014, 2, .	2.1	4
161	A Renormalization Group Procedure for Fiber Bundle Models. Frontiers in Physics, 2018, 6, .	2.1	4
162	Aging and Failure of a Polymer Chain under Tension. Physical Review Letters, 2021, 126, 085501.	7.8	4

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163	Introduction to Multifractality. NATO ASI Series Series B: Physics, 1990, , 17-30.	0.2	4
164	Chiaoet al.respond. Physical Review Letters, 1987, 58, 175-175.	7.8	3
165	Resistivity exponent of two-dimensional lattice animals. Journal of Statistical Physics, 1988, 52, 447-451.	1.2	3
166	Power dissipation in random resistor networks with a broad distribution of conductivities. Physical Review B, 1991, 43, 10984-10989.	3.2	3
167	Comment on â€˜â€˜Negative moments of current distribution in random resistor networksâ€™â€™. Physical Review Letters, 1991, 67, 279-279.	7.8	3
168	Two-dimensional experimental simulation of polymers in annealed disordered media. Physical Review E, 1998, 57, 3656-3659.	2.1	3
169	Proteins topâ€“down: a statistical mechanics approach. Physica A: Statistical Mechanics and Its Applications, 2000, 288, 21-30.	2.6	3
170	Physics and Scaling of Fracture. International Journal of Fracture, 2006, 140, 1-2.	2.2	3
171	Capillary-driven instability of immiscible fluid interfaces flowing in parallel in porous media. Physical Review E, 2008, 78, 035302.	2.1	3
172	Spatial correlations in permeability distributions due to extreme dynamics restructuring of unconsolidated sandstone. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 553-560.	2.6	3
173	A model for stable interfacial crack growth. Journal of Physics: Conference Series, 2012, 402, 012039.	0.4	3
174	Crack localization and the interplay between stress enhancement and thermal noise. Physica A: Statistical Mechanics and Its Applications, 2021, 569, 125782.	2.6	3
175	Percolation and spreading of damage in a simplified Kauffman model. Physica A: Statistical Mechanics and Its Applications, 1988, 153, 47-56.	2.6	2
176	The three-dimensional Ising model in a temperature gradient. Physica A: Statistical Mechanics and Its Applications, 1992, 189, 611-615.	2.6	2
177	Space-filling bearings as a model for gouge: Application to magnetic remanence. Physical Review B, 1993, 47, 12266-12267.	3.2	2
178	Magnetotransport in the 2D Lorentz model: linear and nonlinear effects of a weak electric field. Journal of Physics A, 1997, 30, 795-809.	1.6	2
179	Tunnelling percolation: Universality and application to the integer quantum Hall effect. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1301-1311.	0.6	2
180	A Monte Carlo model for networks between professionals and society. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 698-708.	2.6	2

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181	Dynamic Network Modeling of Resistivity Index in a Steady-State Procedure. , 2010, , .		2
182	Heat diffusion in a two-dimensional thermal fuse model. Physical Review E, 2010, 81, 066111.	2.1	2
183	Anomalous scaling and solitary waves in systems with nonlinear diffusion. Physical Review E, 2011, 83, 056314.	2.1	2
184	Mesoscopic description of the equal-load-sharing fiber bundle model. Physical Review E, 2018, 98, .	2.1	2
185	Implications of Realistic Fracture Criteria on Crack Morphology. Frontiers in Physics, 2019, 7, .	2.1	2
186	Percolation and tunneling in the quantum hall effect. , 1994, , 331-340.		2
187	Burst Statistics as a Criterion for Imminent Failure. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 165-175.	0.2	2
188	Conductance noise in electrodeposition. Physical Review E, 1994, 49, R43-R46.	2.1	1
189	Motion of a ball dropped onto a one-dimensional self-affine surface. Journal of Physics A, 1997, 30, 4915-4924.	1.6	1
190	Crack formation in two-dimensional annular networks. Journal of Physics Condensed Matter, 2001, 13, L135-L140.	1.8	1
191	IN-PLANE ROUGHNESS OF BRITTLE CRACKS. International Journal of Modern Physics B, 2003, 17, 5631-5644.	2.0	1
192	Burst distribution in noisy fiber bundles and fuse models. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4593-4599.	2.6	1
193	Discrete element modeling of brittle crack roughness in three dimensions. Frontiers in Physics, 2014, 2, .	2.1	1
194	Reservoir mapping by global correlation analysis. International Journal of Rock Mechanics and Minings Sciences, 2014, 67, 181-183.	5.8	1
195	An effective medium derivation of the Cole-Cole relation for electric conductivity. Geophysics, 2015, 80, E23-E28.	2.6	1
196	Can Local Stress Enhancement Induce Stability in Fracture Processes? Part I: Apparent Stability. Frontiers in Physics, 2019, 7, .	2.1	1
197	Can Local Stress Enhancement Induce Stability in Fracture Processes? Part II: The Shielding Effect. Frontiers in Physics, 2019, 7, .	2.1	1
198	Predicting Motion Patterns Using Optimal Paths. Frontiers in Physics, 2021, 9, .	2.1	1

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199	Random Fuse Networks: A Review. , 2001, , 59-72.		1
200	Editorial: The Fiber Bundle. Frontiers in Physics, 2021, 9, .	2.1	1
201	Editorial: Machine Learning in Natural Complex Systems. Frontiers in Applied Mathematics and Statistics, 2022, 8, .	1.3	1
202	The Fourth Nordic Symposium on Computer Simulations in Natural Science. Physica Scripta, 1991, T38, 3-3.	2.5	0
203	Mapping the non-directed polymer model to a non-linear growth equation of Burgers type. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 7-16.	2.6	0
204	Fiber Bundle Model in Material Science. , 2015, , 169-196.		0
205	Local and Intermediate Load Sharing. , 2015, , 63-114.		0
206	Recursive Breaking Dynamics. , 2015, , 115-136.		0
207	Appendix A: Mathematical Toolbox. , 2015, , 203-212.		0
208	Appendix B: Statistical Toolbox. , 2015, , 213-222.		0
209	Appendix C: Computational Toolbox. , 2015, , 223-228.		0
210	Snow Avalanches and Landslides. , 2015, , 197-202.		0
211	Editorial: Physics of Porous Media. Frontiers in Physics, 2020, 8, .	2.1	0
212	A Model for the Thermodynamics of Proteins. , 2000, , 89-99.		0
213	Simultaneous Failures in Fiber Bundles. , 1998, , 1-10.		0