

J M Schwarz

List of Publications by Year in descending order

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43
papers

1,464
citations

516215

16
h-index

344852

36
g-index

45
all docs

45
docs citations

45
times ranked

1373
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective medium theory of random regular networks. <i>Europhysics Letters</i> , 2022, 138, 27001.	0.7	3
2	Large-Scale Cortex-Core Structure Formation in Brain Organoids. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	2
3	Rigidity Percolation and Frictional Jamming. , 2022, , 427-448.		0
4	Spongelike Rigid Structures in Frictional Granular Packings. <i>Physical Review Letters</i> , 2021, 126, 088002.	2.9	17
5	Dynamic Nuclear Structure Emerges from Chromatin Cross-Links and Motors. <i>Physical Review Letters</i> , 2021, 126, 158101.	2.9	20
6	Cell nuclei as cytoplasmic rheometers. <i>Biophysical Journal</i> , 2021, 120, 1535-1536.	0.2	0
7	Buckling without bending morphogenesis: nonlinearities, spatial confinement, and branching hierarchies. <i>New Journal of Physics</i> , 2021, 23, 063060.	1.2	5
8	The role of vimentin nuclear interactions in persistent cell motility through confined spaces. <i>New Journal of Physics</i> , 2021, 23, 093042.	1.2	10
9	Geometric signatures of tissue surface tension in a three-dimensional model of confluent tissue. <i>New Journal of Physics</i> , 2021, 23, 093043.	1.2	7
10	Small-scale demixing in confluent biological tissues. <i>Soft Matter</i> , 2020, 16, 3325-3337.	1.2	34
11	Loops versus lines and the compression stiffening of cells. <i>Soft Matter</i> , 2020, 16, 4389-4406.	1.2	14
12	Compression stiffening in biological tissues: On the possibility of classic elasticity origins. <i>Physical Review E</i> , 2019, 99, 052413.	0.8	13
13	Rigidity percolation control of the brittle-ductile transition in disordered networks. <i>Physical Review Materials</i> , 2019, 3, .	0.9	16
14	Soft yet Sharp Interfaces in a Vertex Model of Confluent Tissue. <i>Physical Review Letters</i> , 2018, 120, 058001.	2.9	52
15	Buckling without Bending: A New Paradigm in Morphogenesis. <i>Physical Review X</i> , 2018, 8, .	2.8	16
16	Constraint percolation on hyperbolic lattices. <i>Physical Review E</i> , 2017, 96, 052108.	0.8	0
17	Rigid Cluster Decomposition Reveals Criticality in Frictional Jamming. <i>Physical Review Letters</i> , 2016, 116, 028301.	2.9	42
18	Shape-Shifting Droplet Networks. <i>Physical Review Letters</i> , 2016, 116, 108301.	2.9	6

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19	A density-independent rigidity transition in biological tissues. <i>Nature Physics</i> , 2015, 11, 1074-1079.	6.5	565
20	Mechanics of anisotropic spring networks. <i>Physical Review E</i> , 2014, 90, 062139.	0.8	5
21	Elastic instabilities in a layered cerebral cortex: a revised axonal tension model for cortex folding. <i>New Journal of Physics</i> , 2014, 16, 123058.	1.2	15
22	Energy barriers and cell migration in densely packed tissues. <i>Soft Matter</i> , 2014, 10, 1885.	1.2	163
23	Jamming graphs: A local approach to global mechanical rigidity. <i>Physical Review E</i> , 2013, 88, 062130.	0.8	16
24	Contact processes in crowded environments. <i>Physical Review E</i> , 2013, 88, 052130.	0.8	5
25	Correlated percolation and tricriticality. <i>Physical Review E</i> , 2012, 86, 061131.	0.8	21
26	Level statistics for quantum k -core percolation. <i>Physical Review B</i> , 2012, 86, .	1.1	0
27	Redundancy and Cooperativity in the Mechanics of Compositely Crosslinked Filamentous Networks. <i>PLoS ONE</i> , 2012, 7, e35939.	1.1	44
28	Modeling the formation of in vitro filopodia. <i>Journal of Mathematical Biology</i> , 2011, 63, 229-261.	0.8	4
29	Optimal orientation in branched cytoskeletal networks. <i>Journal of Mathematical Biology</i> , 2011, 63, 735-755.	0.8	6
30	Vicious accelerating walkers. <i>Europhysics Letters</i> , 2011, 96, 50009.	0.7	0
31	Force-balance percolation. <i>Physical Review E</i> , 2010, 81, 011134.	0.8	26
32	Quantum k -core conduction on the Bethe lattice. <i>Physical Review B</i> , 2010, 82, .	1.1	3
33	On the Study of Jamming Percolation. <i>Journal of Statistical Physics</i> , 2008, 131, 575-595.	0.5	13
34	Comment on "Jamming Percolation and Glass Transitions in Lattice Models". <i>Physical Review Letters</i> , 2007, 98, 129601; discussion 129602.	2.9	17
35	Branching, Capping, and Severing in Dynamic Actin Structures. <i>Physical Review Letters</i> , 2007, 99, 058103.	2.9	17
36	The onset of jamming as the sudden emergence of an infinite k -core cluster. <i>Europhysics Letters</i> , 2006, 73, 560-566.	0.7	131

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37	1d̂-expansion fork-core percolation. Physical Review E, 2005, 72, 046123.	0.8	20
38	Continuous Depinning Transition with an Unusual Hysteresis Effect. Physical Review Letters, 2004, 92, 255502.	2.9	13
39	Mean-field theory of collective transport with phase slips. Physical Review B, 2004, 70, .	1.1	14
40	Driven Depinning of Strongly Disordered Media and Anisotropic Mean-Field Limits. Physical Review Letters, 2003, 91, 107002.	2.9	19
41	Depinning with dynamic stress overshoots: A hybrid of critical and pseudohysteretic behavior. Physical Review E, 2003, 67, 021603.	0.8	28
42	Depinning with Dynamic Stress Overshoots: Mean Field Theory. Physical Review Letters, 2001, 87, 096107.	2.9	52
43	First-passage-time exponent for higher-order random walks:â€œ,â€œ,Using LÃ©vy flights. Physical Review E, 2001, 64, 016120.	0.8	10