

Stéphane Santucci

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,722
citations

346980

22
h-index

312153

41
g-index

60
all docs

60
docs citations

60
times ranked

1252
citing authors

#	ARTICLE	IF	CITATIONS
1	Taming the Janssen effect. EPJ Web of Conferences, 2021, 249, 08004.	0.1	0
2	Discharge of a 2D magnetic silo. EPJ Web of Conferences, 2021, 249, 03017.	0.1	0
3	Magnetic Janssen effect. Nature Communications, 2021, 12, 2486.	5.8	3
4	Thermally activated intermittent dynamics of creeping crack fronts along disordered interfaces. Scientific Reports, 2021, 11, 20418.	1.6	4
5	How heat controls fracture: the thermodynamics of creeping and avalanching cracks. Soft Matter, 2020, 16, 9590-9602.	1.2	14
6	Quasi-two-dimensional foam flow through and around a permeable obstacle. Physical Review Fluids, 2020, 5, .	1.0	5
7	Beyond the Concentration Limitation in the Synthesis of Nanobipyramids and Other Pentatwinned Gold Nanostructures. ACS Applied Materials & Interfaces, 2019, 11, 39068-39076.	4.0	26
8	Probing the local response of a two-dimensional liquid foam. European Physical Journal B, 2019, 92, 1.	0.6	5
9	Bending to Kinetic Energy Transfer in Adhesive Peel Front Microinstability. Physical Review Letters, 2019, 122, 068005.	2.9	11
10	Avalanches and extreme value statistics in interfacial crackling dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170394.	1.6	7
11	Spatiotemporal Organization of Correlated Local Activity within Global Avalanches in Slowly Driven Interfaces. Physical Review Letters, 2018, 121, 034101.	2.9	6
12	Interacting Cracks Obey a Multiscale Attractive to Repulsive Transition. Physical Review Letters, 2018, 120, 255501.	2.9	22
13	JaniĀeviĀ etĀal. Reply:. Physical Review Letters, 2017, 119, 188901.	2.9	2
14	Avalanches, Non-Gaussian Fluctuations and Intermittency in Fluid Imbibition. Understanding Complex Systems, 2017, , 261-292.	0.3	2
15	Foam flows through a local constriction. Journal of Physics: Conference Series, 2017, 925, 012025.	0.3	6
16	Interevent Correlations from Avalanches Hiding Below the Detection Threshold. Physical Review Letters, 2016, 117, 230601.	2.9	46
17	Inertial and stick-slip regimes of unstable adhesive tape peeling. Soft Matter, 2016, 12, 4537-4548.	1.2	9
18	How cracks are hot and cool: a burning issue for paper. Soft Matter, 2016, 12, 5563-5571.	1.2	14

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19	Bursts of activity in collective cell migration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11408-11413.	3.3	51
20	Experimental study of stable imbibition displacements in a model open fracture. I. Local avalanche dynamics. Physical Review E, 2016, 93, 012149.	0.8	9
21	Experimental study of stable imbibition displacements in a model open fracture. II. Scale-dependent avalanche dynamics. Physical Review E, 2016, 93, 012150.	0.8	10
22	Path (un)predictability of two interacting cracks in polycarbonate sheets using Digital Image Correlation. Scientific Reports, 2016, 6, 32278.	1.6	11
23	Fracture reveals clustering in cohesive granular matter. Europhysics Letters, 2016, 115, 64001.	0.7	4
24	From Dark Matter to Brittle Fracture. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 183-186.	0.3	0
25	Multiscale Stick-Slip Dynamics of Adhesive Tape Peeling. Physical Review Letters, 2015, 115, 128301.	2.9	17
26	Three-dimensional foam flow resolved by fast X-ray tomographic microscopy. Europhysics Letters, 2015, 111, 38004.	0.7	20
27	Rate-dependent elastic hysteresis during the peeling of pressure sensitive adhesives. Soft Matter, 2015, 11, 3480-3491.	1.2	73
28	Repulsion and Attraction between a Pair of Cracks in a Plastic Sheet. Physical Review Letters, 2015, 114, 205501.	2.9	15
29	Peeling-angle dependence of the stick-slip instability during adhesive tape peeling. Soft Matter, 2014, 10, 9637-9643.	1.2	17
30	High Frequency Monitoring Reveals Aftershocks in Subcritical Crack Growth. Physical Review Letters, 2014, 112, 115502.	2.9	43
31	Strong dynamical effects during stick-slip adhesive peeling. Soft Matter, 2014, 10, 132-138.	1.2	22
32	Disorder-Induced Capillary Bursts Control Intermittency in Slow Imbibition. Physical Review Letters, 2014, 113, 074501.	2.9	13
33	Sound and Light from Fractures in Scintillators. Physical Review Letters, 2013, 111, 154301.	2.9	22
34	Non-Gaussian Nature of Fracture and the Survival of Fat-Tail Exponents. Physical Review Letters, 2013, 110, 145501.	2.9	28
35	Evolution of the average avalanche shape with the universality class. Nature Communications, 2013, 4, 2927.	5.8	106
36	Intermittent stick-slip dynamics during the peeling of an adhesive tape from a roller. Physical Review E, 2013, 87, 022601.	0.8	20

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37	Quantitative 3D characterization of cellular materials: Segmentation and morphology of foam. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 230-238.	2.3	31
38	Avalanches of imbibition fronts: Towards critical pinning. Europhysics Letters, 2011, 94, 46005.	0.7	31
39	Roughness and intermittent dynamics of imbibition fronts due to capillary and permeability disorder. Journal of Contaminant Hydrology, 2011, 120-121, 157-169.	1.6	15
40	Average crack-front velocity during subcritical fracture propagation in a heterogeneous medium. Physical Review E, 2011, 84, 036104.	0.8	33
41	Local dynamics of a randomly pinned crack front during creep and forced propagation: An experimental study. Physical Review E, 2011, 83, 046108.	0.8	53
42	Avalanches and clusters in planar crack front propagation. Physical Review E, 2010, 81, 046116.	0.8	87
43	Planet, Santucci, and Ortn Reply:. Physical Review Letters, 2010, 105, .	2.9	8
44	Fracture roughness scaling: A case study on planar cracks. Europhysics Letters, 2010, 92, 44001.	0.7	53
45	Avalanches and Non-Gaussian Fluctuations of the Global Velocity of Imbibition Fronts. Physical Review Letters, 2009, 102, 094502.	2.9	59
46	Time-dependent rupture and slow crack growth: elastic and viscoplastic dynamics. Journal Physics D: Applied Physics, 2009, 42, 214007.	1.3	43
47	Quake Catalogs from an Optical Monitoring of an Interfacial Crack Propagation. Pure and Applied Geophysics, 2009, 166, 777-799.	0.8	23
48	Quake Catalogs from an Optical Monitoring of an Interfacial Crack Propagation. , 2009, , 777-799.		0
49	Crackling Dynamics in Material Failure as the Signature of a Self-Organized Dynamic Phase Transition. Physical Review Letters, 2008, 101, 045501.	2.9	168
50	Discrepancy between Subcritical and Fast Rupture Roughness: A Cumulant Analysis. Physical Review Letters, 2007, 98, 255502.	2.9	21
51	Statistics of fracture surfaces. Physical Review E, 2007, 75, 016104.	0.8	87
52	Slow crack growth: Models and experiments. European Physical Journal: Special Topics, 2007, 146, 341-356.	1.2	18
53	Failure Time, Critical Behaviour and Activation Processes in Crack Formation. , 2007, , 95-101.		0
54	Subcritical crack growth in fibrous materials. Europhysics Letters, 2006, 74, 595-601.	0.7	22

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55	Fracture Surfaces as Multiscaling Graphs. Physical Review Letters, 2006, 96, 055509.	2.9	48
56	Local Waiting Time Fluctuations along a Randomly Pinned Crack Front. Physical Review Letters, 2006, 96, 045501.	2.9	139
57	SELF-AFFINE SCALING DURING INTERFACIAL CRACK FRONT PROPAGATION. , 2006, , 49-59.		1
58	Slow crack growth in polycarbonate films. Europhysics Letters, 2005, 71, 242-248.	0.7	11
59	Subcritical Statistics in Rupture of Fibrous Materials: Experiments and Model. Physical Review Letters, 2004, 93, 095505.	2.9	75
60	Thermal activation of rupture and slow crack growth in a model of homogeneous brittle materials. Europhysics Letters, 2003, 62, 320-326.	0.7	33