Daniel Bonamy

List of Publications by Year
in descending order

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67	2,176	270111 25	252626 46
papers	citations	h-index	g-index

67	67	67	1810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of particle aggregation in the structure of dried colloidal silica layers. Soft Matter, 2021, 17, 1589-1600.	1.2	9
2	Controlling crackling dynamics by triggering low-intensity avalanches. Physical Review E, 2021, 103, 053001.	0.8	2
3	Stress Corrosion Cracking in Amorphous Phase Separated Oxide Glasses: A Holistic Review of Their Structures, Physical, Mechanical and Fracture Properties. Corrosion and Materials Degradation, 2021, 2, 412-446.	1.0	5
4	Dynamic crack growth along heterogeneous planar interfaces: Interaction with unidimensional strips. Physical Review E, 2021, 103, 013004.	0.8	1
5	Crack front waves: A 3D dynamic response to a local perturbation of tensile and shear cracks. Journal of the Mechanics and Physics of Solids, 2020, 135, 103806.	2.3	8
6	How heat controls fracture: the thermodynamics of creeping and avalanching cracks. Soft Matter, 2020, 16, 9590-9602.	1.2	14
7	Seismiclike organization of avalanches in a driven long-range elastic string as a paradigm of brittle cracks. Physical Review E, 2019, 100, 023001.	0.8	9
8	Role of the Crystal Lattice Structure in Predicting Fracture Toughness. Physical Review Letters, 2019, 123, 205503.	2.9	5
9	Crack growth in heterogeneous brittle solids: intermittency, crackling and induced seismicity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20170386.	1.6	6
10	Highly porous layers of silica nanospheres sintered by drying: scaling up of the elastic properties of the beads to the macroscopic mechanical properties. Soft Matter, 2018, 14, 3987-3997.	1.2	6
11	Aftershock sequences and seismic-like organization of acoustic events produced by a single propagating crack. Nature Communications, 2018, 9, 1253.	5.8	30
12	Dynamics of cracks in disordered materials. Comptes Rendus Physique, 2017, 18, 297-313.	0.3	8
13	Finite size effect on the structural and magnetic properties of MnAs/GaAs(001) patterned microstructures thin films. Scientific Reports, 2017, 7, 16970.	1.6	3
14	Role of evaporation rate on the particle organization and crack patterns obtained by drying a colloidal layer. Europhysics Letters, 2016, 113, 38002.	0.7	23
15	From network depolymerization to stress corrosion cracking in sodium-borosilicate glasses: Effect of the chemical composition. Journal of Non-Crystalline Solids, 2016, 450, 174-184.	1.5	16
16	Effect of the porosity on the fracture surface roughness of sintered materials: From anisotropic to isotropic self-affine scaling. Physical Review E, 2015, 91, 012406.	0.8	10
17	Hardness and toughness of sodium borosilicate glasses via Vickers's indentations. Journal of Non-Crystalline Solids, 2015, 417-418, 66-79.	1.5	92
18	Nominally brittle cracks in inhomogeneous solids: from microstructural disorder to continuum-level scale. Frontiers in Physics, 2014, 2, .	1.0	13

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19	Fluctuations of Global Energy Release and Crackling in Nominally Brittle Heterogeneous Fracture. Physical Review Letters, 2014, 113, 264301.	2.9	30
20	Influence of Electronic Irradiation on Failure and Hardness Properties of Pure Silica Glasses. , 2014, 7, 286-293.		7
21	Damage mechanisms in the dynamic fracture of nominally brittle polymers. , 2014, , 93-111.		0
22	Crackling versus Continuumlike Dynamics in Brittle Failure. Physical Review Letters, 2013, 111, 054301.	2.9	19
23	Damage mechanisms in the dynamic fracture of nominally brittle polymers. International Journal of Fracture, 2013, 184, 93-111.	1.1	20
24	Understanding fast macroscale fracture from microcrack post mortem patterns. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 390-394.	3.3	50
25	Failure of heterogeneous materials: A dynamic phase transition?. Physics Reports, 2011, 498, 1-44.	10.3	161
26	Origin and Tailoring of the Antiferromagnetic Domain Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Thin Films Unraveled by Statistical Analysis of Dichroic Spectromicroscopy (X-Ray Photoemission Electron) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 44	2.9	12
27	Atomic-scale avalanche along a dislocation in a random alloy. Physical Review B, 2011, 84, .	1.1	17
28	Ã‰tude expÃ©rimentale de la dynamique dâ€™endommagement microscopique accompagnant la rupture dynamique du PMMA. Mecanique Et Industries, 2011, 12, 205-208.	0.2	0
29	Scaling and universality in the kinetic smoothening of interfaces: Application to the analysis of the relaxation of rough vicinal steps of an oxide surface. Europhysics Letters, 2010, 89, 60005.	0.7	8
30	Crack propagation in brittle heterogeneous solids: Material disorder and crack dynamics. International Journal of Fracture, 2010, 162, 21-31.	1.1	29
31	Morphological aspects and deterministic reconstruction of dynamical fracture surfaces in brittle materials. EPJ Web of Conferences, 2010, 6, 39010.	0.1	1
32	Damage and dissipation mechanisms in the dynamic fracture of brittle materials: Velocity driven transition from nominally brittle to quasi-brittle. EPJ Web of Conferences, 2010, 6, 39011.	0.1	0
33	Brittle-Quasibrittle Transition in Dynamic Fracture: An Energetic Signature. Physical Review Letters, 2010, 104, 045501.	2.9	54
34	Crack propagation in brittle heterogeneous solids: Material disorder and crack dynamics. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 21-31.	0.1	0
35	Intermittency and roughening in the failure of brittle heterogeneous materials. Journal Physics D: Applied Physics, 2009, 42, 214014.	1.3	63
36	Relevance of visco-plastic theory in a multi-directional inhomogeneous granular flow. Europhysics Letters, 2009, 88, 14001.	0.7	29

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37	Euler-like modelling of dense granular flows: application to a rotating drum. European Physical Journal B, 2009, 68, 619-627.	0.6	16
38	Coarsening of two-dimensional Al2O3 islands on vicinal (1, â˜1, 0, 2) sapphire surfaces during annealing in air. Surface Science, 2008, 602, 3232-3238.	0.8	16
39	Fracture through cavitation in a metallic glass. Europhysics Letters, 2008, 83, 66006.	0.7	50
40	Crackling Dynamics in Material Failure as the Signature of a Self-Organized Dynamic Phase Transition. Physical Review Letters, 2008, 101, 045501.	2.9	168
41	Transient damage spreading and anomalous scaling in mortar crack surfaces. Physical Review E, 2008, 78, 016112.	0.8	23
42	Reply to â€œComment on â€˜Cleaved surface ofi-AlPdMnquasicrystals: Influence of the local temperature elevation at the crack tip on the fracture surface roughnessâ€™ â€• Physical Review B, 2008, 78, .	1.1	1
43	A unified study of crack propagation in amorphous silica: Using experiments and simulations. Journal of Alloys and Compounds, 2007, 434-435, 60-63.	2.8	48
44	Time resolved observation of fracture events in mica crystal using scanning tunneling microscope. Applied Physics Letters, 2006, 89, 093124.	1.5	9
45	Scaling Exponents for Fracture Surfaces in Homogeneous Glass and Glassy Ceramics. Physical Review Letters, 2006, 97, 135504.	2.9	109
46	Two-Dimensional Scaling Properties of Experimental Fracture Surfaces. Physical Review Letters, 2006, 96, 035506.	2.9	148
47	Experimental investigation of damage and fracture in glassy materials at the nanometre scale. International Journal of Materials and Product Technology, 2006, 26, 339.	0.1	14
48	Anisotropic self-affine properties of experimental fracture surfaces. International Journal of Fracture, 2006, 140, 27-37.	1.1	57
49	Nanoscale damage during fracture in silica glass. International Journal of Fracture, 2006, 140, 3-14.	1.1	56
50	Cleaved surface ofiâ˜AlPdMnquasicrystals: Influence of the local temperature elevation at the crack tip on the fracture surface roughness. Physical Review B, 2006, 74, .	1.1	27
51	Characterization of antiphase boundary network inFe3O4(111)epitaxial thin films: Effect on anomalous magnetic behavior. Physical Review B, 2006, 74, .	1.1	32
52	Nano-ductile crack propagation in glasses under stress corrosion: spatiotemporal evolution of damage in the vicinity of the crack tip. International Journal of Solids and Structures, 2005, 42, 637-645.	1.3	45
53	Dynamic crack response to a localized shear pulse perturbation in brittle amorphous materials: on crack surface roughening. International Journal of Fracture, 2005, 134, 1-22.	1.1	31
54	Numerical simulation of two-dimensional steady granular flows in rotating drum: On surface flow rheology. Physics of Fluids, 2005, 17, 103303.	1.6	41

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55	Bonamy and Ravi-Chandar Reply:. Physical Review Letters, 2004, 93, .	2.9	13
56	Comment on â€œInteraction of Shear Waves and Propagating Cracksâ€• Physical Review Letters, 2004, 93, 099601; author reply 099602.	2.9	12
57	Texture of granular surface flows: experimental investigation and biphasic non-local model. Granular Matter, 2003, 4, 183-190.	1.1	7
58	Surface fracture of glassy materials as detected by real-time atomic force microscopy (AFM) experiments. Applied Surface Science, 2003, 212-213, 92-96.	3.1	24
59	Interaction of Shear Waves and Propagating Cracks. Physical Review Letters, 2003, 91, 235502.	2.9	52
60	Glass Breaks like Metal, but at the Nanometer Scale. Physical Review Letters, 2003, 90, 075504.	2.9	219
61	Microdisplacements induced by a local perturbation inside a granular packing. Physical Review E, 2003, 68, 042301.	0.8	4
62	Crack fronts and damage in glass at the nanometre scale. Journal of Physics Condensed Matter, 2003, 15, S2377-S2386.	0.7	14
63	Diphasic non-local model for granular surface flows. Europhysics Letters, 2003, 63, 42-48.	0.7	12
64	Multiscale Clustering in Granular Surface Flows. Physical Review Letters, 2002, 89, 034301.	2.9	51
65	Experimental study of granular surface flows via a fast camera: A continuous description. Physics of Fluids, 2002, 14, 1666-1673.	1.6	94
66	Electrical conductance of a 2D packing of metallic beads under thermal perturbation. Europhysics Letters, 2000, 51, 614-620.	0.7	16
67	Low Velocity Surface Fracture Patterns in Brittle Material: A Newly Evidenced Mechanical Instability. Materials Science Forum, 0, 706-709, 920-924.	0.3	7