

Jonathan BarÃ©s

List of Publications by Year in descending order

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papers

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706676

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46
all docs

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docs citations

46
times ranked

871
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional compaction of soft granular packings. <i>Soft Matter</i> , 2022, 18, 312-321.	1.2	10
2	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 118, 111525.	3.8	90
3	A micro-mechanical compaction model for granular mix of soft and rigid particles. <i>EPJ Web of Conferences</i> , 2021, 249, 02008.	0.1	0
4	Strain dependent vorticity in sheared granular media. <i>EPJ Web of Conferences</i> , 2021, 249, 02010.	0.1	1
5	Highly strained mixtures of bidimensional soft and rigid grains: an experimental approach from the local scale. <i>EPJ Web of Conferences</i> , 2021, 249, 05004.	0.1	1
6	Controlling crackling dynamics by triggering low-intensity avalanches. <i>Physical Review E</i> , 2021, 103, 053001.	0.8	2
7	Micromechanical description of the compaction of soft pentagon assemblies. <i>Physical Review E</i> , 2021, 103, 062902.	0.8	10
8	Transparent experiments: releasing data from mechanical tests on three dimensional hydrogel sphere packings. <i>Granular Matter</i> , 2020, 22, 21.	1.1	6
9	Development of new biocompatible 3D printed graphene oxide-based scaffolds. <i>Materials Science and Engineering C</i> , 2020, 110, 110595.	3.8	103
10	Shear of granular materials composed of ellipses. <i>Granular Matter</i> , 2020, 22, 1.	1.1	9
11	Sheared Amorphous Packings Display Two Separate Particle Transport Mechanisms. <i>Physical Review Letters</i> , 2020, 125, 138001.	2.9	5
12	Compaction of mixtures of rigid and highly deformable particles: A micromechanical model. <i>Physical Review E</i> , 2020, 102, 032904.	0.8	14
13	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. <i>ACS Applied Bio Materials</i> , 2020, 3, 1865-1874.	2.3	42
14	Yielding, rigidity, and tensile stress in sheared columns of hexapod granules. <i>Physical Review E</i> , 2020, 101, 062903.	0.8	14
15	Seismiclike organization of avalanches in a driven long-range elastic string as a paradigm of brittle cracks. <i>Physical Review E</i> , 2019, 100, 023001.	0.8	9
16	Enlightening force chains: a review of photoelasticimetry in granular matter. <i>Granular Matter</i> , 2019, 21, 1.	1.1	58
17	Shear-Jammed, Fragile, and Steady States in Homogeneously Strained Granular Materials. <i>Physical Review Letters</i> , 2019, 123, 158001.	2.9	38
18	Soft-grain compression: Beyond the jamming point. <i>Physical Review E</i> , 2019, 100, 042907.	0.8	15

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19	Jamming transition in non-spherical particle systems: pentagons versus disks. <i>Granular Matter</i> , 2019, 21, 1.	1.1	14
20	Numerical simulations of the compaction of assemblies of rubberlike particles: A quantitative comparison with experiments. <i>Physical Review E</i> , 2019, 99, 062903.	0.8	20
21	Seismicity in sheared granular matter. <i>Physical Review E</i> , 2019, 99, 052902.	0.8	14
22	Crackling to periodic dynamics in granular media. <i>Physical Review E</i> , 2019, 99, 040901.	0.8	16
23	Deformation Field in Diametrically Loaded Soft Cylinders. <i>Experimental Mechanics</i> , 2019, 59, 453-467.	1.1	15
24	Crack growth in heterogeneous brittle solids: intermittency, crackling and induced seismicity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170386.	1.6	6
25	Sinking in a bed of grains activated by shearing. <i>Physical Review E</i> , 2018, 98, 010901.	0.8	13
26	Aftershock sequences and seismic-like organization of acoustic events produced by a single propagating crack. <i>Nature Communications</i> , 2018, 9, 1253.	5.8	30
27	Vibrational Collapse of Hexapod Packings. <i>EPJ Web of Conferences</i> , 2017, 140, 06011.	0.1	4
28	Structure of hexapod 3D packings: understanding the global stability from the local organization. <i>EPJ Web of Conferences</i> , 2017, 140, 06021.	0.1	7
29	Avalanches in a granular stick-slip experiment: detection using wavelets. <i>EPJ Web of Conferences</i> , 2017, 140, 03038.	0.1	4
30	Analysis of dense packing of highly deformed grains. <i>EPJ Web of Conferences</i> , 2017, 140, 15031.	0.1	5
31	Force and Mass Dynamics in Non-Newtonian Suspensions. <i>Physical Review Letters</i> , 2017, 119, 184501.	2.9	6
32	Local and global avalanches in a two-dimensional sheared granular medium. <i>Physical Review E</i> , 2017, 96, 052902.	0.8	64
33	Jamming by compressing a system of granular crosses. <i>EPJ Web of Conferences</i> , 2017, 140, 06014.	0.1	5
34	Jamming Transition: Heptagons, Pentagons, and Discs. <i>EPJ Web of Conferences</i> , 2017, 140, 06010.	0.1	6
35	Experimental observations of root growth in a controlled photoelastic granular material. <i>EPJ Web of Conferences</i> , 2017, 140, 14008.	0.1	4
36	Highly deformed grain: from the Hertz contact limitation to a new strain field description in 2D. <i>EPJ Web of Conferences</i> , 2017, 140, 05011.	0.1	4

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37	Tuning strain of granular matter by basal assisted Couette shear. EPJ Web of Conferences, 2017, 140, 03049.	0.1	2
38	Self-organized magnetic particles to tune the mechanical behavior of a granular system. Europhysics Letters, 2016, 115, 64003.	0.7	20
39	Packings of 3D stars: stability and structure. Granular Matter, 2016, 18, 1.	1.1	20
40	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
41	Nominally brittle cracks in inhomogeneous solids: from microstructural disorder to continuum-level scale. Frontiers in Physics, 2014, 2, .	1.0	13
42	Fluctuations of Global Energy Release and Crackling in Nominally Brittle Heterogeneous Fracture. Physical Review Letters, 2014, 113, 264301.	2.9	30
43	Crackling versus Continuumlike Dynamics in Brittle Failure. Physical Review Letters, 2013, 111, 054301.	2.9	19
44	A joined finite element based method to simulate 3D crack network initiation and propagation in mechanical and thermal fatigue. International Journal of Fatigue, 2012, 44, 279-291.	2.8	5
45	Low Velocity Surface Fracture Patterns in Brittle Material: A Newly Evidenced Mechanical Instability. Materials Science Forum, 0, 706-709, 920-924.	0.3	7
46	Softer than soft: Diving into squishy granular matter. Papers in Physics, 0, 14, 140009.	0.2	5