

Luc Oger

List of Publications by Year in descending order

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69
papers

1,821
citations

257450

24
h-index

265206

42
g-index

69
all docs

69
docs citations

69
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle velocity fluctuations and hydrodynamic self-diffusion of sedimenting non-Brownian spheres. <i>Physics of Fluids</i> , 1995, 7, 12-23.	4.0	220
2	Pulsed gradient NMR measurements and numerical simulation of flow velocity distribution in sphere packings. <i>Physics of Fluids</i> , 1996, 8, 293-301.	4.0	123
3	Collision process between an incident bead and a three-dimensional granular packing. <i>Physical Review E</i> , 2007, 75, 061305.	2.1	98
4	Voronoi-Delaunay analysis of voids in systems of nonspherical particles. <i>Physical Review E</i> , 1999, 59, 7205-7212.	2.1	92
5	Statistical analysis of random sphere packings with variable radius distribution. <i>Solid State Sciences</i> , 2006, 8, 1397-1413.	3.2	79
6	Transport properties in sintered porous media composed of two particle sizes. <i>Journal Physics D: Applied Physics</i> , 1987, 20, 1637-1644.	2.8	74
7	Geometrical characterization of hard-sphere systems. <i>Physical Review E</i> , 1999, 60, 4551-4558.	2.1	69
8	Arrangement of cells in Voronoi tessellations of monosize packing of discs. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1993, 67, 347-362.	0.6	64
9	Properties of disordered sphere packings I. Geometric structure: Statistical model, numerical simulations and experimental results. <i>Powder Technology</i> , 1986, 46, 121-131.	4.2	60
10	Geometrical properties of disordered packings of hard disks. <i>Journal De Physique</i> , 1986, 47, 1697-1707.	1.8	59
11	Discrete Element Method studies of the collision of one rapid sphere on 2D and 3D packings. <i>European Physical Journal E</i> , 2005, 17, 467-476.	1.6	59
12	Voronoi tessellation of packings of spheres: Topological correlation and statistics. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 74, 177-197.	0.6	58
13	Three-dimensional analysis of the collision process of a bead on a granular packing. <i>Physical Review E</i> , 2009, 79, 021305.	2.1	56
14	Yield and deformation of an assembly of disks subjected to a deviatoric stress loading. <i>Mechanics of Materials</i> , 1998, 27, 189-210.	3.2	55
15	Statistics of Voronoi cells of slightly perturbed face-centered cubic and hexagonal close-packed lattices. <i>Europhysics Letters</i> , 1998, 42, 167-172.	2.0	54
16	A model of binary assemblies of spheres. <i>European Physical Journal E</i> , 2001, 6, 295-303.	1.6	52
17	Crystallization of dense hard sphere packings. <i>Journal of Molecular Liquids</i> , 2002, 96-97, 185-194.	4.9	41
18	Tessellation of binary assemblies of spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 259, 205-221.	2.6	34

#	ARTICLE	IF	CITATIONS
19	Granular temperature: Experimental analysis. <i>Physical Review E</i> , 1995, 52, 2072-2075.	2.1	33
20	Order and disorder in hard-sphere packings. <i>Europhysics Letters</i> , 1999, 48, 415-420.	2.0	29
21	Smoothed particle hydrodynamics for cohesive grains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999, 180, 169-183.	6.6	28
22	Study of the collision of one rapid sphere on 3D packings: Experimental and numerical results. <i>Computers and Mathematics With Applications</i> , 2008, 55, 132-148.	2.7	27
23	Application of the Voronoï tessellation to study transport and segregation of grains inside 2D and 3D packings of spheres. <i>Granular Matter</i> , 1999, 1, 203-211.	2.2	25
24	Grain-scale modeling and splash parametrization for aeolian sand transport. <i>Physical Review E</i> , 2017, 95, 022902.	2.1	24
25	Diffusion of two-dimensional particles on an air table. <i>Journal of Statistical Physics</i> , 1996, 82, 1047-1061.	1.2	23
26	Transport of small particles through a 3D packing of spheres: experimental and numerical approaches. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P07019-P07019.	2.3	23
27	Properties of disordered sphere packings II. Electrical properties of mixtures of conducting and insulating spheres of different sizes. <i>Powder Technology</i> , 1986, 46, 133-140.	4.2	22
28	Dispersion of particles by spontaneous interparticle percolation through unconsolidated porous media. <i>Physical Review E</i> , 2009, 79, 051307.	2.1	22
29	Experimental study of radical tessellations of assemblies of discs with size distribution. <i>Journal De Physique, I</i> , 1994, 4, 115-125.	1.2	20
30	Particle penetration depth distribution in deep bed filtration. <i>Journal Physics D: Applied Physics</i> , 1991, 24, 2111-2114.	2.8	19
31	Tracer dispersion in sintered glass beads with a bidisperse size distribution. <i>AIChE Journal</i> , 1988, 34, 610-617.	3.6	16
32	Effect of the anisotropy of the cells on the topological properties of two- and three-dimensional froths. <i>Physical Review E</i> , 2001, 63, 062401.	2.1	16
33	Voronoi and Radical Tessellations of Packings of Spheres. <i>Lecture Notes in Computer Science</i> , 2002, , 95-104.	1.3	13
34	Coordination of a spherical impurity in a disordered packing of equal spheres. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 993-1004.	1.5	11
35	Permeability Variation due to Spherical Impurities in a Disordered Packing of Equal Spheres. <i>Europhysics Letters</i> , 1987, 4, 301-305.	2.0	10
36	Two-phase flows by pulsed field gradient spin-echo NMR. <i>Measurement Science and Technology</i> , 1994, 5, 426-434.	2.6	9

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37	Arrangement of discs in 2d binary assemblies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 218, 403-418.	2.6	8
38	Random cuts in binary mixtures of spheres. <i>Physical Review E</i> , 2004, 70, 031112.	2.1	8
39	How disorder can diminish avalanche risks: effect of size distribution. <i>Granular Matter</i> , 2007, 9, 267-278.	2.2	8
40	Frequency-amplitude behavior in the incipient movement of grains under vibration. <i>Particuology</i> , 2018, 40, 1-9.	3.6	8
41	Airslide flows. Part 2-Flow modeling and comparison with experiments. <i>Chemical Engineering Science</i> , 2013, 91, 22-34.	3.8	7
42	Coordination number of disordered packings of identical spheres. <i>Journal of Physics A</i> , 1989, 22, 2119-2131.	1.6	6
43	Transit time during the interparticle percolation process. <i>Physical Review E</i> , 2010, 82, 041301.	2.1	6
44	Tilting process with humidity: DEM modeling and comparison with experiments. <i>Granular Matter</i> , 2013, 15, 629-643.	2.2	6
45	Determination of the coordination number in disordered packings of equal spheres. <i>Journal of Microscopy</i> , 1989, 156, 65-78.	1.8	5
46	Comparison of two representations of a random cut of identical sphere packing. <i>European Physical Journal B</i> , 2000, 14, 403-406.	1.5	5
47	Airslide flows, Part 1-Experiments, review and extension. <i>Chemical Engineering Science</i> , 2013, 91, 35-43.	3.8	5
48	Dynamic behavior of humid granular avalanches: Optical measurements to characterize the precursor activity. <i>Physical Review E</i> , 2020, 101, 022902.	2.1	5
49	Particle impact on a cohesive granular media. <i>Physical Review E</i> , 2022, 105, .	2.1	5
50	Friction and rotation modes in a packing of cylinders under shear stress. <i>European Physical Journal E</i> , 2003, 10, 387-391.	1.6	4
51	Anisotropy and lack of symmetry for a random aggregate of frictionless, elastic particles: theory and numerical simulations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150013.	2.1	4
52	Computer Simulations and Tessellations of Granular Materials. , 1999, , 527-546.		4
53	Coordinance of one different sphere in a packing of equal spheres. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, L631-L636.	1.5	2
54	Model of the saltation transport by Discrete Element Method coupled with wind interaction. <i>EPJ Web of Conferences</i> , 2017, 140, 12004.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Resuspension due to vertical oscillations: experiments and numerical modeling. Granular Matter, 2019, 21, 1.	2.2	2
56	Granular Media: Effects of Disorder. NATO ASI Series Series B: Physics, 1990, , 255-268.	0.2	1
57	Yield loci for an anisotropic granular assembly. Physical Review E, 2012, 86, 041309.	2.1	1
58	Segregation in a model system for tapped wet disks in two dimensions. European Physical Journal E, 2015, 38, 124.	1.6	1
59	Robust experimental study of avalanche precursory events based on reproducible cycles of grain packing destabilizations. EPJ Web of Conferences, 2021, 249, 03023.	0.3	1
60	Crystallization in hard sphere systems: A structural analysis. , 1999, , .		0
61	Model of Sand Transport by Consecutive Disk Collisions on 2D Disordered Packing. , 2009, , .		0
62	2D DEM model of sand transport with wind interaction. , 2013, , .		0
63	Experiments and numerical modeling for the movement and resuspension of grains. EPJ Web of Conferences, 2017, 140, 03014.	0.3	0
64	Resuspension processes in a wide range of particle sizes. EPJ Web of Conferences, 2021, 249, 01003.	0.3	0
65	Model of Sand Transport by Consecutive Particle Collisions with Wind Interaction. , 2013, , 307-316.		0
66	1D stereological cuts: application to slightly sintered model materials. Journal De Physique, 1990, 51, 1897-1910.	1.8	0
67	Études de coulements complexes par résonance magnétique nucléaire. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1992, 89, 307-323.	0.2	0
68	Application of the Voronoi Tessellations to the Study of Flow of Granular Materials. , 1999, , 349-358.		0
69	Several Numerical Approaches of Granular Flows Applied to Inclined Plane Studies. , 2005, , 585-590.		0