

Nicolas Vandewalle

List of Publications by Citations

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271
papers

5,122
citations

37
h-index

58
g-index

281
ext. papers

5,682
ext. citations

3.1
avg. IF

5.68
L-index

#	Paper	IF	Citations
271	Networks of equities in financial markets. <i>European Physical Journal B</i> , 2004 , 38, 363-371	1.2	236
270	Measuring the flowing properties of powders and grains. <i>Powder Technology</i> , 2012 , 224, 19-27	5.2	192
269	Coherent and random sequences in financial fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 246, 454-459	3.3	139
268	Crossing of two mobile averages: A method for measuring the roughness exponent. <i>Physical Review E</i> , 1998 , 58, 6832-6834	2.4	128
267	Investigation of SDS, DTAB and CTAB micelle microviscosities by electron spin resonance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 290, 206-212	5.1	116
266	Experimental evidences of a structural and dynamical transition in fish school. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 367, 487-493	3.3	109
265	Multi-affine analysis of typical currency exchange rates. <i>European Physical Journal B</i> , 1998 , 4, 257-261	1.2	105
264	Taxonomy of stock market indices. <i>Physical Review E</i> , 2000 , 62, R7615-8	2.4	105
263	The crash of October 1987 seen as a phase transition: amplitude and universality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 255, 201-210	3.3	95
262	How the financial crash of October 1997 could have been predicted. <i>European Physical Journal B</i> , 1998 , 4, 139-141	1.2	92
261	Non-random topology of stock markets. <i>Quantitative Finance</i> , 2001 , 1, 372-374	1.6	91
260	Applications of statistical physics to economic and financial topics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 274, 229-240	3.3	89
259	Critical parameters for the partial coalescence of a droplet. <i>Physical Review E</i> , 2007 , 75, 036303	2.4	81
258	A new universality for random sequential deposition of needles. <i>European Physical Journal B</i> , 2000 , 14, 407-410	1.2	73
257	Fish lateral system is required for accurate control of shoaling behaviour. <i>Animal Behaviour</i> , 2010 , 79, 679-687	2.8	64
256	Non-Gaussian behavior and anticorrelations in ultrathin gate oxides after soft breakdown. <i>Applied Physics Letters</i> , 1999 , 74, 1579-1581	3.4	62
255	Visualizing the log-periodic pattern before crashes. <i>European Physical Journal B</i> , 1999 , 9, 355-359	1.2	59

254	Avalanches of popping bubbles in collapsing foams. <i>Physical Review Letters</i> , 2001 , 86, 179-82	7.4	58
253	Sparseness and Roughness of Foreign Exchange Rates. <i>International Journal of Modern Physics C</i> , 1998 , 09, 711-719	1.1	58
252	Dynamics of a bouncing droplet onto a vertically vibrated interface. <i>Physical Review Letters</i> , 2008 , 100, 167802	7.4	55
251	Self-assembled magnetocapillary swimmers. <i>Soft Matter</i> , 2013 , 9, 2420	3.6	54
250	Experimental study of granular compaction dynamics at different scales: grain mobility, hexagonal domains, and packing fraction. <i>Physical Review Letters</i> , 2005 , 95, 028002	7.4	53
249	Realization of the Najafi-Golestanian microswimmer. <i>Physical Review E</i> , 2016 , 94, 021101	2.4	51
248	Droplets sliding on fibres. <i>European Physical Journal E</i> , 2010 , 31, 253-62	1.5	49
247	Magnetic Eden Model. <i>Europhysics Letters</i> , 1993 , 24, 629-634	1.6	49
246	Digital microfluidics on a wire. <i>Applied Physics Letters</i> , 2009 , 95, 014106	3.4	48
245	The moving averages demystified. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 269, 170-176	3	47
244	A video multitracking system for quantification of individual behavior in a large fish shoal: advantages and limits. <i>Behavior Research Methods</i> , 2009 , 41, 228-235	6.1	46
243	Resonant and rolling droplet. <i>New Journal of Physics</i> , 2008 , 10, 113021	2.9	44
242	Compaction of anisotropic granular materials: experiments and simulations. <i>Physical Review E</i> , 2004 , 70, 051314	2.4	44
241	Remote control of self-assembled microswimmers. <i>Scientific Reports</i> , 2015 , 5, 16035	4.9	43
240	Construction and properties of fractal trees with tunable dimension: The interplay of geometry and physics. <i>Physical Review E</i> , 1997 , 55, 94-98	2.4	42
239	Flow abilities of powders and granular materials evidenced from dynamical tap density measurement. <i>Powder Technology</i> , 2013 , 235, 842-852	5.2	41
238	Completely inelastic ball. <i>Physical Review E</i> , 2009 , 79, 055201	2.4	39
237	The influence of grain shape, friction and cohesion on granular compaction dynamics. <i>European Physical Journal E</i> , 2007 , 22, 241-8	1.5	38

- 236 Controlling the partial coalescence of a droplet on a vertically vibrated bath. *Physical Review E*, **2007**, 76, 035302 2.4 37
- 235 Magnetic diffusion-limited aggregation. *Physical Review E*, **1995**, 51, 597-603 2.4 37
- 234 The role of the droplet deformations in the bouncing droplet dynamics. *Physics of Fluids*, **2013**, 25, 122101 2.4 36
- 233 Influence of the gravity on the discharge of a silo. *Granular Matter*, **2013**, 15, 263-273 2.6 36
- 232 Aging of an antibubble. *Europhysics Letters*, **2005**, 69, 966-970 1.6 36
- 231 Impact of liquid droplets on granular media. *Physical Review E*, **2011**, 84, 046320 2.4 34
- 230 Experimental study of the compaction dynamics for two-dimensional anisotropic granular materials. *Physical Review E*, **2006**, 74, 021301 2.4 34
- 229 Fluid instabilities in the birth and death of antibubbles. *New Journal of Physics*, **2003**, 5, 161-161 2.9 34
- 228 Strong interlocking of nonconvex particles in random packings. *Physical Review E*, **2012**, 85, 051307 2.4 33
- 227 Compaction dynamics of wet granular assemblies. *Physical Review Letters*, **2010**, 105, 048001 7.4 33
- 226 Ribbons of superparamagnetic colloids in magnetic field. *European Physical Journal E*, **2016**, 39, 47 1.5 30
- 225 Magnetic ghosts and monopoles. *New Journal of Physics*, **2014**, 16, 013050 2.9 30
- 224 Phase transitions in vibrated granular systems in microgravity. *Physical Review E*, **2011**, 84, 051306 2.4 30
- 223 Mullite coatings on ceramic substrates: Stabilisation of Al₂O₃/BiO₂ suspensions for spray drying of composite granules suitable for reactive plasma spraying. *Journal of the European Ceramic Society*, **2009**, 29, 2169-2175 6 29
- 222 Comparing the EthoVision 2.3 system and a new computerized multitasking prototype system to measure the swimming behavior in fry fish. *Behavior Research Methods*, **2006**, 38, 704-10 6.1 29
- 221 Dynamical clustering in driven granular gas. *Europhysics Letters*, **2012**, 99, 40001 1.6 27
- 220 Dense bubble flow in a silo: an unusual flow of a dispersed medium. *Physical Review E*, **2006**, 73, 056309 2.4 27
- 219 The screening of species in a Darwinistic tree-like model of evolution. *Physica D: Nonlinear Phenomena*, **1996**, 90, 262-270 3.3 27

218	Lifetime of a bouncing droplet. <i>Physical Review E</i> , 2007 , 76, 056311	2.4	26
217	Rolling and slipping motion of Euler's disk. <i>Physical Review E</i> , 2004 , 69, 056610	2.4	26
216	Linking flowability and granulometry of lactose powders. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 312-20	6.5	25
215	Dynamics of crack opening in a one-dimensional desiccation experiment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 321, 431-441	3.3	25
214	Cascades of popping bubbles along air/foam interfaces. <i>Physical Review E</i> , 2001 , 64, 021507	2.4	25
213	Mesoscale structures from magnetocapillary self-assembly. <i>European Physical Journal E</i> , 2013 , 36, 127	1.5	24
212	Motion of carbon nanotubes in a rotating drum: The dynamic angle of repose and a bed behavior diagram. <i>Chemical Engineering Journal</i> , 2009 , 146, 143-147	14.7	24
211	Energetic approach for the characterization of taps in granular compaction. <i>Europhysics Letters</i> , 2008 , 84, 44001	1.6	24
210	Bouncing bubble on a liquid/gas interface resting or vibrating. <i>Soft Matter</i> , 2011 , 7, 6719	3.6	23
209	Effect of BaZrO ₃ additions on the microstructure and physical properties of melt-textured Y-123 superconducting materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 53, 154-158	3.1	22
208	Controlled flow of smart powders. <i>Physical Review E</i> , 2008 , 78, 061302	2.4	22
207	Capillary rise in foams under microgravity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 261, 131-134	5.1	22
206	Antibubble lifetime: Influence of the bulk viscosity and of the surface modulus of the mixture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 365, 43-45	5.1	21
205	pattern formation in isothermally non-seeded melt-textured with 15 wt% addition. <i>Superconductor Science and Technology</i> , 1996 , 9, 665-670	3.1	21
204	Self-Organized Criticality in Phylogenetic-Like Tree Growths. <i>Journal De Physique, I</i> , 1995 , 5, 1011-1025		21
203	Magnetocapillary self-assemblies: Locomotion and micromanipulation along a liquid interface. <i>Advances in Colloid and Interface Science</i> , 2018 , 255, 84-93	14.3	21
202	Compound droplet manipulations on fiber arrays. <i>Soft Matter</i> , 2015 , 11, 7086-91	3.6	20
201	Nonlinear Schrödinger wave equation with linear quantum behavior. <i>Physical Review A</i> , 2014 , 89,	2.6	20

200	Foam imbibition in microgravity. <i>European Physical Journal B</i> , 2003 , 33, 115-119	1.2	20
199	The n-Zipf analysis of financial data series and biased data series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 268, 240-249	3.3	20
198	Experimental study of cracking induced by desiccation in 1-dimensional systems. <i>European Physical Journal E</i> , 2002 , 8, 445-52	1.5	19
197	Hysteretic behavior in metallic granular matter. <i>Applied Physics Letters</i> , 2002 , 81, 936-938	3.4	19
196	Effect of relative air humidity on the flowability of lactose powders. <i>Journal of Drug Delivery Science and Technology</i> , 2016 , 35, 207-212	4.5	19
195	Strings of droplets propelled by coherent waves. <i>Physical Review E</i> , 2015 , 92, 041004	2.4	18
194	Simulated growth and microstructure of DyBa ₂ Cu ₃ O _{7-x} with and without Dy ₂ BaCuO ₅ addition. <i>Journal of Materials Research</i> , 1995 , 10, 268-273	2.5	18
193	Lacunarity, fractal, and magnetic transition behaviors in a generalized Eden growth process. <i>Physical Review E</i> , 1994 , 50, R635-R638	2.4	18
192	Superparamagnetic colloids in viscous fluids. <i>Scientific Reports</i> , 2017 , 7, 7778	4.9	17
191	Compound Droplets on Fibers. <i>Langmuir</i> , 2015 , 31, 7799-805	4	17
190	Melting of a confined monolayer of magnetized beads. <i>Physical Review E</i> , 2013 , 87, 062201	2.4	17
189	Tunable random packings. <i>New Journal of Physics</i> , 2007 , 9, 406-406	2.9	17
188	Effect of friction in a toy model of granular compaction. <i>Physical Review E</i> , 2004 , 70, 051304	2.4	17
187	How relative humidity affects random packing experiments. <i>Physical Review E</i> , 2012 , 85, 031309	2.4	16
186	Flow of magnetized grains in a rotating drum. <i>Physical Review E</i> , 2010 , 82, 040301	2.4	16
185	Symmetry breaking in a few-body system with magnetocapillary interactions. <i>Physical Review E</i> , 2012 , 85, 041402	2.4	16
184	Linking compaction dynamics to the flow properties of powders. <i>Applied Physics Letters</i> , 2006 , 89, 093505	3.4	16
183	Air bubbles under vertical vibrations. <i>European Physical Journal E</i> , 2006 , 20, 317-25	1.5	16

182	Switching behavior of droplets crossing nodes on a fiber network. <i>Scientific Reports</i> , 2017 , 7, 13309	4.9	15
181	An instrument for studying granular media in low-gravity environment. <i>Review of Scientific Instruments</i> , 2018 , 89, 075103	1.7	15
180	High stability of the bovine serum albumine foams evidenced in Hele-Shaw cell. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 438, 112-118	5.1	15
179	Bubble bouncing at a clean water surface. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17324-32	3.6	15
178	Quantitatively mimicking wet colloidal suspensions with dry granular media. <i>Scientific Reports</i> , 2015 , 5, 10348	4.9	15
177	Effect of an electric field on an intermittent granular flow. <i>Physical Review E</i> , 2010 , 81, 041309	2.4	15
176	From a bouncing compound drop to a double emulsion. <i>Langmuir</i> , 2010 , 26, 11680-5	4	15
175	Antibubbles, liquid onions and bouncing droplets. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 344, 42-47	5.1	15
174	Reexamination of the Branly effect. <i>Physical Review E</i> , 2003 , 67, 040302	2.4	15
173	Criticality of trapping in a dynamic epidemic model. <i>Journal of Physics A</i> , 1996 , 29, 309-316		14
172	Inner Patterns and Front Propagation of a Dynamic Random Impurity Model. <i>Physical Review Letters</i> , 1996 , 77, 510-513	7.4	14
171	Tunable bimodal explorations of space from memory-driven deterministic dynamics. <i>Physical Review E</i> , 2019 , 100, 032201	2.4	13
170	Statics and dynamics of magnetocapillary bonds. <i>Physical Review E</i> , 2016 , 93, 053117	2.4	13
169	Threshold of gas-like to clustering transition in driven granular media in low-gravity environment. <i>Europhysics Letters</i> , 2018 , 123, 14003	1.6	13
168	Bouncing dynamics of a spring. <i>Physica D: Nonlinear Phenomena</i> , 2014 , 272, 1-7	3.3	13
167	Segregation and pattern formation in dilute granular media under microgravity conditions. <i>Npj Microgravity</i> , 2017 , 3, 1	5.3	13
166	Compaction dynamics of a magnetized powder. <i>Physical Review E</i> , 2009 , 80, 041302	2.4	13
165	Long lasting instabilities in granular mixtures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 326, 313-321	3.3	13

164	The Robustness of Self-Organized Criticality Against Extinctions in a Tree-Like Model of Evolution. <i>Europhysics Letters</i> , 1995 , 32, 613-618	1.6	13
163	Surface swimmers, harnessing the interface to self-propel. <i>European Physical Journal E</i> , 2018 , 41, 137	1.5	13
162	Drop on a bent fibre. <i>Soft Matter</i> , 2018 , 14, 3724-3729	3.6	12
161	Customizing mesoscale self-assembly with three-dimensional printing. <i>New Journal of Physics</i> , 2014 , 16, 023013	2.9	12
160	Sculpting sandcastles grain by grain: self-assembled sand towers. <i>Physical Review E</i> , 2012 , 86, 051303	2.4	12
159	Bouncing trimer: a random self-propelled particle, chaos and periodical motions. <i>New Journal of Physics</i> , 2009 , 11, 033016	2.9	12
158	Walking droplets in linear channels. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	12
157	Flow of magnetic repelling grains in a two-dimensional silo. <i>Papers in Physics</i> , 2015 , 7,		12
156	Combined effect of moisture and electrostatic charges on powder flow. <i>EPJ Web of Conferences</i> , 2017 , 140, 13009	0.3	11
155	Scattering theory of walking droplets in the presence of obstacles. <i>New Journal of Physics</i> , 2016 , 18, 113037	3.7	11
154	How foams unstable on Earth behave in microgravity?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 457, 392-396	5.1	11
153	How dynamical clustering triggers Maxwell's demon in microgravity. <i>Physical Review E</i> , 2013 , 88, 012202	2.4	11
152	Metastable bouncing droplets. <i>Physics of Fluids</i> , 2009 , 21, 054103	4.4	11
151	Foaming dynamics in Hele-Shaw cells. <i>Physical Review E</i> , 2006 , 73, 065301	2.4	11
150	Stripes ordering in self-stratification experiments of binary and ternary granular mixtures. <i>Physical Review E</i> , 2000 , 62, 8241-4	2.4	11
149	Phase segregation in binary sandpiles on fractal bases. <i>Physical Review E</i> , 1999 , 59, 631-635	2.4	11
148	Effect of volume fraction on chains of superparamagnetic colloids at equilibrium. <i>European Physical Journal E</i> , 2019 , 42, 123	1.5	10
147	Resonant and antiresonant bouncing droplets. <i>Physical Review E</i> , 2015 , 91, 023017	2.4	10

146	Clustering and segregation in driven granular fluids. <i>European Physical Journal E</i> , 2014 , 37, 115	1.5	10
145	Compaction of granular mixtures. <i>Granular Matter</i> , 2006 , 8, 87-91	2.6	10
144	Kronig-Penney-Ising picture of colossal magnetoresistance. <i>Physical Review B</i> , 1999 , 59, 11909-11913	3.3	10
143	Collective effects during crystal growth in the presence of mobile nonreactive impurities: experiments and simulations. <i>Journal of Crystal Growth</i> , 1999 , 197, 317-324	1.6	10
142	Optimal motion of triangular magnetocapillary swimmers. <i>Journal of Chemical Physics</i> , 2019 , 151, 124707	3.9	10
141	Granular transport in driven granular gas. <i>European Physical Journal E</i> , 2015 , 38, 94	1.5	9
140	Spreading of periodic diseases and synchronization phenomena on networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 2526-2531	3.3	9
139	Foam stability in microgravity. <i>Journal of Physics: Conference Series</i> , 2011 , 327, 012024	0.3	9
138	Aging of porous media following fluid invasion, freezing, and thawing. <i>Physical Review E</i> , 1997 , 55, R6348-R6354	2.4	9
137	Simulations of the kinetic growth of YBa2Cu3O7 grains. <i>Journal of Crystal Growth</i> , 1996 , 166, 816-819	1.6	9
136	Speciations and Extinctions in a Self-Organizing Critical Model of Tree-Like Evolution. <i>Journal De Physique, I</i> , 1996 , 6, 599-606		9
135	Capillary assemblies in a rotating magnetic field. <i>Soft Matter</i> , 2019 , 15, 9093-9103	3.6	9
134	Does water foam exist in microgravity?. <i>Europhysics News</i> , 2014 , 45, 22-25	0.2	8
133	Fiber based optofluidic biosensors. <i>Applied Physics Letters</i> , 2014 , 105, 133701	3.4	8
132	Dissipation in quasistatically sheared wet and dry sand under confinement. <i>Physical Review E</i> , 2012 , 86, 020103	2.4	8
131	Different universality classes for SOC in models driven by extremal dynamics. <i>Europhysics Letters</i> , 1997 , 37, 1-6	1.6	8
130	Physicochemical causes for the microstructure of melt-textured composites. <i>Superconductor Science and Technology</i> , 1997 , 10, 123-133	3.1	8
129	Directional solidification by appropriate chemically active single crystal seed: An alternative way of generating large superconducting 123 single domain. <i>Journal of Materials Research</i> , 1997 , 12, 3199-3202	2.5	8

128	Precursors to avalanches in a granular monolayer. <i>Physical Review E</i> , 2006 , 74, 031311	2.4	8
127	Electrical investigations of granular arches. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 311, 307-312	3.3	8
126	Cascades of popping bubbles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 314, 320-324	3.3	8
125	Aging process of electrical contacts in granular matter. <i>Journal of Applied Physics</i> , 2003 , 94, 7835	2.5	8
124	Non-Gaussian electrical fluctuations in a quasi-2d packing of metallic beads. <i>Europhysics Letters</i> , 2001 , 53, 197-201	1.6	8
123	RIPPLES VERSUS GIANT DUNES IN A SALTATION-AVALANCHE MODEL. <i>International Journal of Modern Physics C</i> , 1999 , 10, 1071-1076	1.1	8
122	Two-component spreading phenomena: Why the geometry makes the criticality. <i>Physical Review E</i> , 1996 , 54, 3006-3008	2.4	8
121	Crystal morphology and three-dimensional-like growth model of DyBa ₂ Cu ₃ O _{7-δ} superconducting materials synthesized in situ in 0.6 T. <i>Applied Physics Letters</i> , 1994 , 65, 3386-3388	3.4	8
120	Relating Brownian motion to diffusion with superparamagnetic colloids. <i>American Journal of Physics</i> , 2017 , 85, 265-270	0.7	7
119	From jamming to fast compaction dynamics in granular binary mixtures. <i>Scientific Reports</i> , 2019 , 9, 7281	4.9	7
118	Cascade of granular flows for characterizing segregation. <i>Powder Technology</i> , 2013 , 234, 32-36	5.2	7
117	Epidemic spreading in a finite-precision BA model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 3573-3578	3.3	7
116	Double emulsion in a compound droplet. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 365, 178-180	5.1	7
115	The effect of sexual cannibalism on the evolution of large populations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 245, 113-123	3.3	7
114	Lattice gas model of gradual evolution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 248, 155-164	3.3	7
113	Reversing the Brazil nut effect. <i>European Physical Journal E</i> , 2005 , 18, 367-72	1.5	7
112	Domino effect for world market fluctuations. <i>European Physical Journal B</i> , 2000 , 15, 547-549	1.2	7
111	Analysis of the gate voltage fluctuations in ultra-thin gate oxides after soft breakdown		7

110	The kinetic growth anisotropy of the 123-(RE)BaCuO compounds. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 72, 727-736		7
109	Exact solution of the dynamic epidemic model on the Bethe lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 230, 1-10	3.3	7
108	Fractal grain boundaries in growth competition. <i>Journal of Crystal Growth</i> , 1996 , 169, 79-82	1.6	7
107	Cluster growth in driven granular gases. <i>Physical Review E</i> , 2017 , 95, 022905	2.4	6
106	The mayonnaise droplet. <i>Chaos</i> , 2009 , 19, 041105	3.3	6
105	Hybrid wetting state on micro-waffle textures. <i>Europhysics Letters</i> , 2009 , 88, 16002	1.6	6
104	Growth of Cayley and diluted Cayley trees with two kinds of entities. <i>Journal of Physics A</i> , 1996 , 29, 7089-7104	6	
103	Effects of electromagnetic waves on the electrical properties of contacts between grains. <i>Europhysics Letters</i> , 2007 , 79, 54001	1.6	6
102	Foamability and structure analysis of foams in Hele-Shaw cell. <i>Applied Physics Letters</i> , 2007 , 90, 214101	3.4	6
101	Block-to-granular-like transition in dense bubble flows. <i>Europhysics Letters</i> , 2004 , 65, 316-322	1.6	6
100	Ripple and kink dynamics. <i>Physical Review E</i> , 2001 , 64, 041302	2.4	6
99	The isothermal melt-texturing of bulk YBa ₂ Cu ₃ O _{7-x} ceramics: from cooking to modelling. <i>Superconductor Science and Technology</i> , 1998 , 11, 35-43	3.1	6
98	Lack of universality in two-dimensional multicomponent spreading phenomena. <i>Physical Review E</i> , 1995 , 52, 3447-3454	2.4	6
97	Magnetically powered metachronal waves induce locomotion in self-assemblies. <i>Communications Physics</i> , 2020 , 3,	5.4	6
96	Densification of complex shape ceramics parts by SPS. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2586-2596	6	6
95	Rotation of melting ice disks due to melt fluid flow. <i>Physical Review E</i> , 2016 , 93, 033112	2.4	5
94	Displacement of an Electrically Charged Drop on a Vibrating Bath. <i>Physical Review Letters</i> , 2016 , 116, 044501	7.4	5
93	Influence of cohesive forces on the macroscopic properties of granular assemblies 2013 ,		5

92	Ontogeny of swimming movements in bronze corydorass (<i>Corydorass aeneus</i>). <i>Canadian Journal of Zoology</i> , 2010 , 88, 378-389	1.5	5
91	Hysteretic behavior in three-dimensional soap film rearrangements. <i>Physical Review E</i> , 2011 , 83, 021403	2.4	5
90	Vita brevis of antibubbles. <i>Europhysics News</i> , 2006 , 37, 24-25	0.2	5
89	Patterns in hydraulic ripples with binary granular mixtures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 313, 357-364	3.3	5
88	Limit current density in 2D metallic granular packings. <i>European Physical Journal B</i> , 2003 , 34, 201-204	1.2	5
87	The non-trivial dispersion of Y2BaCuO5 particles trapped in the YBa2Cu3O7-x crystal matrix. <i>Philosophical Magazine Letters</i> , 1998 , 77, 301-306	1	5
86	Foam-like evolution in polycrystalline systems following successive melt and growth cycles. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 78, 397-408		5
85	A toy model for life at the edge of chaos. <i>Computers and Graphics</i> , 1996 , 20, 921-923	1.8	5
84	Microstructure development in isothermally melt-textured 123/11 composite materials. <i>Journal of Low Temperature Physics</i> , 1996 , 105, 1439-1444	1.3	5
83	Ontogeny of Swimming Movements in the Catfish <i>Clarias gariepinus</i> . <i>The Open Fish Science Journal</i> , 2010 , 3, 16-29		5
82	How size ratio and segregation affect the packing of binary granular mixtures. <i>Soft Matter</i> , 2020 ,	3.6	5
81	The Branly Effect and Contacting Grains in a Packing 2005 , 521-524		5
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