

Nicolas B Garnier

List of Publications by Year in descending order

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41
papers

1,071
citations

471509

17
h-index

414414

32
g-index

41
all docs

41
docs citations

41
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Work Fluctuation Theorems for Harmonic Oscillators. <i>Physical Review Letters</i> , 2006, 97, 140603.	7.8	140
2	Entropy Production and Time Asymmetry in Nonequilibrium Fluctuations. <i>Physical Review Letters</i> , 2007, 98, 150601.	7.8	135
3	Optical Manipulation of Microscale Fluid Flow. <i>Physical Review Letters</i> , 2003, 91, 054501.	7.8	123
4	Reflection and diffraction of internal waves analyzed with the Hilbert transform. <i>Physics of Fluids</i> , 2008, 20, .	4.0	76
5	Experimental test of the Gallavottiâ€Cohen fluctuation theorem in turbulent flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 240-250.	2.6	75
6	Fluctuation theorems for harmonic oscillators. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P09018-P09018.	2.3	57
7	Experimental Evidence of Non-Gaussian Fluctuations near a Critical Point. <i>Physical Review Letters</i> , 2008, 100, 180601.	7.8	53
8	Thermodynamic time asymmetry in non-equilibrium fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P01002-P01002.	2.3	36
9	Fluctuations of the total entropy production in stochastic systems. <i>Europhysics Letters</i> , 2008, 82, 30007.	2.0	33
10	Nonlinear Transition to a Global Mode for Traveling-Wave Instability in a Finite box. <i>Physical Review Letters</i> , 2001, 86, 75-78.	7.8	24
11	Hydrothermal Waves in a Disk of Fluid. <i>Springer Tracts in Modern Physics</i> , 2006, , 147-161.	0.1	24
12	Spatial and temporal regularization to estimate COVID-19 reproduction number $R(t)$: Promoting piecewise smoothness via convex optimization. <i>PLoS ONE</i> , 2020, 15, e0237901.	2.5	22
13	Entrainment of the suprachiasmatic nucleus network by a light-dark cycle. <i>Physical Review E</i> , 2012, 86, 041903.	2.1	21
14	Nonlinear dynamics of waves and modulated waves in 1D thermocapillary flows. I. General presentation and periodic solutions. <i>Physica D: Nonlinear Phenomena</i> , 2003, 174, 1-29.	2.8	20
15	Explosive synchronization enhances selectivity: Example of the cochlea. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	19
16	Kullback-Leibler divergence measure of intermittency: Application to turbulence. <i>Physical Review E</i> , 2018, 97, 013107.	2.1	19
17	Nonlinear dynamics of waves and modulated waves in 1D thermocapillary flows. II. Convective/absolute transitions. <i>Physica D: Nonlinear Phenomena</i> , 2003, 174, 30-55.	2.8	17
18	The Role of Cellular Coupling in the Spontaneous Generation of Electrical Activity in Uterine Tissue. <i>PLoS ONE</i> , 2015, 10, e0118443.	2.5	17

#	ARTICLE	IF	CITATIONS
19	Individual Decisions and Perceived Form in Collective Free Improvisation. Journal of New Music Research, 2015, 44, 145-167.	0.8	17
20	Scaling of information in turbulence. Europhysics Letters, 2016, 115, 58003.	2.0	17
21	Convective and Absolute Eckhaus Instability Leading to Modulated Waves in a Finite Box. Physical Review Letters, 2002, 88, 134501.	7.8	16
22	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. Entropy, 2017, 19, 640.	2.2	14
23	Information Theory for Non-Stationary Processes with Stationary Increments. Entropy, 2019, 21, 1223.	2.2	14
24	Entropy as a measure of variability and stemness in single-cell transcriptomics. Current Opinion in Systems Biology, 2021, 27, 100348.	2.6	11
25	A Model for Collective Free Improvisation. Lecture Notes in Computer Science, 2011, , 29-41.	1.3	10
26	The fluctuation-dissipation relation on a Melde string in a turbulent flow; considerations on a dynamical temperature™. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, L09003.	2.3	9
27	Distance to Healthy Metabolic and Cardiovascular Dynamics From Fetal Heart Rate Scale-Dependent Features in Pregnant Sheep Model of Human Labor Predicts the Evolution of Acidemia and Cardiovascular Decompensation. Frontiers in Pediatrics, 2021, 9, 660476.	1.9	9
28	Experimental study of work fluctuations in a harmonic oscillator. Comptes Rendus Physique, 2007, 8, 518-527.	0.9	8
29	Stationary modulated-amplitude waves in the 1D complex Ginzburg-Landau equation. Physica D: Nonlinear Phenomena, 2004, 188, 193-212.	2.8	7
30	Probing High-Order Dependencies With Information Theory. IEEE Transactions on Signal Processing, 2019, 67, 3796-3805.	5.3	6
31	Quantifying Non-Stationarity with Information Theory. Entropy, 2021, 23, 1609.	2.2	5
32	Effects of curvature on hydrothermal waves instability of radial thermocapillary flows. Comptes Rendus Physique, 2001, 2, 1227-1233.	0.1	4
33	The effect of quenched disorder on dynamical transitions in systems of coupled cells. New Journal of Physics, 2013, 15, 093046.	2.9	4
34	Continuous and discontinuous transitions to synchronization. Chaos, 2016, 26, 113119.	2.5	4
35	Spatiotemporal Chaos: The Microscopic Perspective. Physical Review Letters, 2006, 96, 114101.	7.8	3
36	Mutual information for intrapartum fetal heart rate analysis. , 2017, 2017, 2014-2017.		2

#	ARTICLE	IF	CITATIONS
37	Microfluids change direction. Physics World, 2004, 17, 22-22.	0.0	0
38	Title is missing!. , 2020, 15, e0237901.		0
39	Title is missing!. , 2020, 15, e0237901.		0
40	Title is missing!. , 2020, 15, e0237901.		0
41	Title is missing!. , 2020, 15, e0237901.		0