

Nicolas B Garnier

List of Publications by Year in descending order

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41
papers

1,071
citations

471509

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414414

32
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all docs

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docs citations

41
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Frontiers in Pediatrics</i> , 2021, 9, 660476.	1.9	9
2	Entropy as a measure of variability and stemness in single-cell transcriptomics. <i>Current Opinion in Systems Biology</i> , 2021, 27, 100348.	2.6	11
3	Quantifying Non-Stationarity with Information Theory. <i>Entropy</i> , 2021, 23, 1609.	2.2	5
4	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
5	Title is missing!. , 2020, 15, e0237901.		0
6	Title is missing!. , 2020, 15, e0237901.		0
7	Title is missing!. , 2020, 15, e0237901.		0
8	Title is missing!. , 2020, 15, e0237901.		0
9	Probing High-Order Dependencies With Information Theory. <i>IEEE Transactions on Signal Processing</i> , 2019, 67, 3796-3805.	5.3	6
10	Information Theory for Non-Stationary Processes with Stationary Increments. <i>Entropy</i> , 2019, 21, 1223.	2.2	14
11	Kullback-Leibler divergence measure of intermittency: Application to turbulence. <i>Physical Review E</i> , 2018, 97, 013107.	2.1	19
12	Explosive synchronization enhances selectivity: Example of the cochlea. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	19
13	Mutual information for intrapartum fetal heart rate analysis. , 2017, 2017, 2014-2017.		2
14	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. <i>Entropy</i> , 2017, 19, 640.	2.2	14
15	Scaling of information in turbulence. <i>Europhysics Letters</i> , 2016, 115, 58003.	2.0	17
16	Continuous and discontinuous transitions to synchronization. <i>Chaos</i> , 2016, 26, 113119.	2.5	4
17	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
18	Individual Decisions and Perceived Form in Collective Free Improvisation. <i>Journal of New Music Research</i> , 2015, 44, 145-167.	0.8	17

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19	The effect of quenched disorder on dynamical transitions in systems of coupled cells. <i>New Journal of Physics</i> , 2013, 15, 093046.	2.9	4
20	Entrainment of the suprachiasmatic nucleus network by a light-dark cycle. <i>Physical Review E</i> , 2012, 86, 041903.	2.1	21
21	A Model for Collective Free Improvisation. <i>Lecture Notes in Computer Science</i> , 2011, , 29-41.	1.3	10
22	Fluctuations of the total entropy production in stochastic systems. <i>Europhysics Letters</i> , 2008, 82, 30007.	2.0	33
23	Reflection and diffraction of internal waves analyzed with the Hilbert transform. <i>Physics of Fluids</i> , 2008, 20, .	4.0	76
24	Thermodynamic time asymmetry in non-equilibrium fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P01002-P01002.	2.3	36
25	Experimental Evidence of Non-Gaussian Fluctuations near a Critical Point. <i>Physical Review Letters</i> , 2008, 100, 180601.	7.8	53
26	The fluctuation-dissipation relation on a Melde string in a turbulent flow; considerations on a "dynamical temperature"™. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, L09003.	2.3	9
27	Fluctuation theorems for harmonic oscillators. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P09018-P09018.	2.3	57
28	Entropy Production and Time Asymmetry in Nonequilibrium Fluctuations. <i>Physical Review Letters</i> , 2007, 98, 150601.	7.8	135
29	Experimental study of work fluctuations in a harmonic oscillator. <i>Comptes Rendus Physique</i> , 2007, 8, 518-527.	0.9	8
30	Work Fluctuation Theorems for Harmonic Oscillators. <i>Physical Review Letters</i> , 2006, 97, 140603.	7.8	140
31	Spatiotemporal Chaos: The Microscopic Perspective. <i>Physical Review Letters</i> , 2006, 96, 114101.	7.8	3
32	Hydrothermal Waves in a Disk of Fluid. <i>Springer Tracts in Modern Physics</i> , 2006, , 147-161.	0.1	24
33	Stationary modulated-amplitude waves in the 1D complex Ginzburg-Landau equation. <i>Physica D: Nonlinear Phenomena</i> , 2004, 188, 193-212.	2.8	7
34	Experimental test of the Gallavotti-Cohen fluctuation theorem in turbulent flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 340, 240-250.	2.6	75
35	Microfluids change direction. <i>Physics World</i> , 2004, 17, 22-22.	0.0	0
36	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

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37	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
38	Optical Manipulation of Microscale Fluid Flow. <i>Physical Review Letters</i> , 2003, 91, 054501.	7.8	123
39	Convective and Absolute Eckhaus Instability Leading to Modulated Waves in a Finite Box. <i>Physical Review Letters</i> , 2002, 88, 134501.	7.8	16
40	Effects of curvature on hydrothermal waves instability of radial thermocapillary flows. <i>Comptes Rendus Physique</i> , 2001, 2, 1227-1233.	0.1	4
41	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