# Giovanni Gallavotti

List of Publications by Year
in descending order

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|---|---|---|---|
| 50<br>papers | 2,149<br>citations | 279798<br>23<br>h-index | 276875<br>41<br>g-index |
| 52<br>all docs | 52<br>docs citations | 52<br>times ranked | 723<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Extension of Onsager's Reciprocity to Large Fields and the Chaotic Hypothesis. Physical Review Letters, 1996, 77, 4334-4337. | 7.8 | 213 |
| 2 | The phase separation line in the two-dimensional Ising model. Communications in Mathematical Physics, 1972, 27, 103-136. | 2.2 | 168 |
| 3 | Renormalization theory and ultraviolet stability for scalar fields via renormalization group methods. Reviews of Modern Physics, 1985, 57, 471-562. | 45.6 | 159 |
| 4 | Billiards and Bernoulli schemes. Communications in Mathematical Physics, 1974, 38, 83-101. | 2.2 | 141 |
| 5 | Chaotic hypothesis: Onsager reciprocity and fluctuation-dissipation theorem. Journal of Statistical Physics, 1996, 84, 899-925. | 1.2 | 136 |
| 6 | Stability of motions near resonances in quasi-integrable Hamiltonian systems. Journal of Statistical Physics, 1986, 44, 293-338. | 1.2 | 127 |
| 7 | Twistless KAM tori. Communications in Mathematical Physics, 1994, 164, 145-156. | 2.2 | 114 |
| 8 | TWISTLESS KAM TORI, QUASI FLAT HOMOCLINIC INTERSECTIONS, AND OTHER CANCELLATIONS IN THE PERTURBATION SERIES OF CERTAIN COMPLETELY INTEGRABLE HAMILTONIAN SYSTEMS: A REVIEW. Reviews in Mathematical Physics, 1994, 06, 343-411. | 1.7 | 90 |
| 9 | The Elements of Mechanics. Theoretical and Mathematical Physics (United States), 1983, , . | 0.0 | 81 |
| 10 | Aspects of Ergodic, Qualitative and Statistical Theory of Motion. , 2004, , . | | 70 |
| 11 | Ergodicity, ensembles, irreversibility in Boltzmann and beyond. Journal of Statistical Physics, 1995, 78, 1571-1589. | 1.2 | 69 |
| 12 | Chaotic dynamics, fluctuations, nonequilibrium ensembles. Chaos, 1998, 8, 384-392. | 2.5 | 69 |
| 13 | SRB States and Nonequilibrium Statistical Mechanics Close to Equilibrium. Communications in Mathematical Physics, 1997, 190, 279-285. | 2.2 | 65 |
| 14 | Nonequilibrium and Irreversibility. Theoretical and Mathematical Physics (United States), 2014, , . | 0.0 | 63 |
| 15 | Billiards correlation functions. Journal of Statistical Physics, 1994, 76, 549-585. | 1.2 | 45 |
| 16 | Stability and equilibrium states of infinite classical systems. Communications in Mathematical Physics, 1976, 48, 1-14. | 2.2 | 41 |
| 17 | Lyapunov spectra and nonequilibrium ensembles equivalence in 2D fluid mechanics. Physica D: Nonlinear Phenomena, 2004, 187, 338-357. | 2.8 | 40 |
| 18 | A local fluctuation theorem. Physica A: Statistical Mechanics and Its Applications, 1999, 263, 39-50. | 2.6 | 38 |

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|---|---------|-----|-----------|
| 19 | Entropy production and thermodynamics of nonequilibrium stationary states: A point of view. Chaos, 2004, 14, 680-690. | 2.5 | 36 |
| 20 | Degenerate Elliptic Resonances. Communications in Mathematical Physics, 2005, 257, 319-362. | 2.2 | 34 |
| 21 | Equivalence of Non-equilibrium Ensembles and Representation of Friction in Turbulent Flows: The Lorenz 96 Model. Journal of Statistical Physics, 2014, 156, 1027-1065. | 1.2 | 32 |
| 22 | A criterion of integrability for perturbed nonresonant harmonic oscillators. ?Wick ordering? of the perturbations in classical mechanics and invariance of the frequency spectrum. Communications in Mathematical Physics, 1982, 87, 365-383. | 2.2 | 29 |
| 23 | New Methods in Nonequilibrium Gases and Fluids. Open Systems and Information Dynamics, 1999, 6, 101-136. | 1.2 | 28 |
| 24 | Breakdown and regeneration of time reversal symmetry in nonequilibrium statistical mechanics. Physica D: Nonlinear Phenomena, 1998, 112, 250-257. | 2.8 | 25 |
| 25 | Fluctuation Relation beyond Linear Response Theory. Journal of Statistical Physics, 2005, 119, 909-944. | 1.2 | 22 |
| 26 | Heat and fluctuations from order to chaos. European Physical Journal B, 2008, 61, 1-24. | 1.5 | 22 |
| 27 | Majorant series convergence for twistless KAM tori. Ergodic Theory and Dynamical Systems, 1995, 15, 857-869. | 0.6 | 21 |
| 28 | Nonequilibrium in statistical and fluid mechanics. Ensembles and their equivalence. Entropy driven intermittency. Journal of Mathematical Physics, 2000, 41, 4061-4081. | 1.1 | 16 |
| 29 | Ergodicity: a historical perspective. Equilibrium and Nonequilibrium. European Physical Journal H, 2016, 41, 181-259. | 0.8 | 16 |
| 30 | Equivalence of nonequilibrium ensembles in turbulence models. Physical Review E, 2018, 98, 012202. | 2.1 | 13 |
| 31 | Nonequilibrium and Fluctuation Relation. Journal of Statistical Physics, 2020, 180, 172-226. | 1.2 | 12 |
| 32 | Fluctuation relation, fluctuation theorem, thermostats and entropy creation in nonequilibrium statistical physics. Comptes Rendus Physique, 2007, 8, 486-494. | 0.9 | 10 |
| 33 | Counting Phase Space Cells in Statistical Mechanics. Communications in Mathematical Physics, 2001, 224, 107-112. | 2.2 | 9 |
| 34 | Renormalization group in statistical mechanics and mechanics: gauge symmetries and vanishing beta functions. Physics Reports, 2001, 352, 251-272. | 25.6 | 9 |
| 35 | Microscopic chaos and macroscopic entropy in fluids. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P10011-P10011. | 2.3 | 6 |
| 36 | Classical Statistical Mechanics. , 1999, , 1-55. | | 6 |

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| 37 | Finite thermostats in classical and quantum nonequilibrium. European Physical Journal: Special Topics, 2018, 227, 217-229. | 2.6 | 5 |
| 38 | Ensembles, turbulence and fluctuation theorem. European Physical Journal E, 2020, 43, 37. | 1.6 | 5 |
| 39 | Thermostats, Chaos and Onsager Reciprocity. Journal of Statistical Physics, 2009, 134, 1121-1131. | 1.2 | 3 |
| 40 | Kondo Effect in a Fermionic Hierarchical Model. Journal of Statistical Physics, 2015, 161, 1203-1230. | 1.2 | 3 |
| 41 | Viscosity, Reversibillity, Chaotic Hypothesis, Fluctuation Theorem and Lyapunov Pairing. Journal of Statistical Physics, 2021, 185, 1. | 1.2 | 2 |
| 42 | Aspects of Lagrange's Mechanics and their legacy. European Physical Journal H, 2013, 38, 595-615. | 0.8 | 1 |
| 43 | Renormalization Group and divergences. Journal of Statistical Physics, 2014, 157, 743-754. | 1.2 | 1 |
| 44 | Introduction to the Special Issue in Honor of Joel Lebowitz. Journal of Statistical Physics, 2020, 180, 1-3. | 1.2 | 1 |
| 45 | Special Problems in Chaotic Dynamics. , 2004, , 359-396. | | 1 |
| 46 | Kondo Effect in the Hierarchical $$s-d$$ s - d Model. Journal of Statistical Physics, 2015, 161, 1231-1235. | 1.2 | 0 |
| 47 | Random Matrices and Lyapunov Coefficients Regularity. Journal of Statistical Physics, 2017, 166, 558-574. | 1.2 | 0 |
| 48 | About David Ruelle, After His 80th Birthday. Journal of Statistical Physics, 2017, 166, 458-462. | 1.2 | 0 |
| 49 | Discrete Phase Space. Theoretical and Mathematical Physics (United States), 2014, , 45-68. | 0.0 | 0 |
| 50 | Reversible Viscosity and Navier–Stokes Fluids. Springer Proceedings in Mathematics and Statistics, 2019, , 569-580. | 0.2 | 0 |