

# Gianni Arioli

## List of Publications by Year in descending order

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44  
papers

1,039  
citations

430874

18  
h-index

434195

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

506  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Semilinear Schrödinger Equation in the Presence of a Magnetic Field. <i>Archive for Rational Mechanics and Analysis</i> , 2003, 170, 277-295.	2.4	138
2	Electromechanical Coupling in Cardiac Dynamics: The Active Strain Approach. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 605-621.	1.8	82
3	A Semilinear Fourth Order Elliptic Problem with Exponential Nonlinearity. <i>SIAM Journal on Mathematical Analysis</i> , 2005, 36, 1226-1258.	1.9	74
4	A new mathematical explanation of what triggered the catastrophic torsional mode of the Tacoma Narrows Bridge. <i>Applied Mathematical Modelling</i> , 2015, 39, 901-912.	4.2	67
5	Computer-Assisted Methods for the Study of Stationary Solutions in Dissipative Systems, Applied to the Kuramoto-Sivashinski Equation. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 197, 1033-1051.	2.4	60
6	Torsional instability in suspension bridges: The Tacoma Narrows Bridge case. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 42, 342-357.	3.3	48
7	Periodic motions of an infinite lattice of particles with nearest neighbor interaction. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1996, 26, 1103-1114.	1.1	46
8	Existence and stability of traveling pulse solutions of the FitzHugh-Nagumo equation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2015, 113, 51-70.	1.1	46
9	Integration of Dissipative Partial Differential Equations: A Case Study. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010, 9, 1119-1133.	1.6	44
10	Symbolic Dynamics for the Hénon-Heiles Hamiltonian on the Critical Level. <i>Journal of Differential Equations</i> , 2001, 171, 173-202.	2.2	39
11	Two Novel Methods and Multi-Mode Periodic Solutions for the Fermi-Pasta-Ulam Model. <i>Communications in Mathematical Physics</i> , 2005, 255, 1-19.	2.2	32
12	Homoclinic Solutions of Hamiltonian Systems with Symmetry. <i>Journal of Differential Equations</i> , 1999, 158, 291-313.	2.2	31
13	A New Branch of Mountain Pass Solutions for the Choreographical 3-Body Problem. <i>Communications in Mathematical Physics</i> , 2006, 268, 439-463.	2.2	25
14	Entire solutions for a semilinear fourth order elliptic problem with exponential nonlinearity. <i>Journal of Differential Equations</i> , 2006, 230, 743-770.	2.2	23
15	Non-symmetric low-index solutions for a symmetric boundary value problem. <i>Journal of Differential Equations</i> , 2012, 252, 448-458.	2.2	23
16	A Homoclinic Solution for Excitation Waves on a Contractile Substratum. <i>SIAM Journal on Applied Dynamical Systems</i> , 2012, 11, 1533-1542.	1.6	22
17	Minimization properties of Hill's orbits and applications to some N-body problems. <i>Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire</i> , 2000, 17, 617-650.	1.4	20
18	Periodic Orbits, Symbolic Dynamics and Topological Entropy for the Restricted 3-Body Problem. <i>Communications in Mathematical Physics</i> , 2002, 231, 1-24.	2.2	20

#	ARTICLE	IF	CITATIONS
19	Existence and numerical approximation of periodic motions of an infinite lattice of particles. Zeitschrift Fur Angewandte Mathematik Und Physik, 1995, 46, 898-912.	1.4	18
20	The Critical Renormalization Fixed Point for Commuting Pairs of Area-Preserving Maps. Communications in Mathematical Physics, 2010, 295, 415-429.	2.2	16
21	On a Nonlinear Nonlocal Hyperbolic System Modeling Suspension Bridges. Milan Journal of Mathematics, 2015, 83, 211-236.	1.1	13
22	Weak solutions of quasilinear elliptic PDE's at resonance. Annales De La Faculté Des Sciences De Toulouse, 1997, 6, 573-589.	0.3	13
23	Quasilinear elliptic equations at critical growth. Nonlinear Differential Equations and Applications, 1998, 5, 83-97.	0.8	12
24	Long term dynamics of a reaction-diffusion system. Journal of Differential Equations, 2007, 235, 298-307.	2.2	12
25	The second bifurcation branch for radial solutions of the Brezis-Nirenberg problem in dimension four. Nonlinear Differential Equations and Applications, 2008, 15, 69-90.	0.8	11
26	Traveling wave solutions for the FPU chain: a constructive approach. Nonlinearity, 2020, 33, 1705-1722.	1.4	11
27	Existence and multiplicity results for quasilinear elliptic differential systems. Communications in Partial Differential Equations, 2000, 25, 125-153.	2.2	10
28	Families of Periodic Solutions for Some Hamiltonian PDEs. SIAM Journal on Applied Dynamical Systems, 2017, 16, 1-15.	1.6	9
29	The Hénon-Heiles Hamiltonian near the critical energy level: some rigorous results. Nonlinearity, 2003, 16, 1833-1852.	1.4	8
30	Branches of periodic orbits for the planar restricted 3-body problem. Discrete and Continuous Dynamical Systems, 2004, 11, 745-755.	0.9	8
31	Multibump solutions and critical groups. Transactions of the American Mathematical Society, 2009, 361, 3159-3187.	0.9	8
32	Non-radial solutions for some semilinear elliptic equations on the disk. Nonlinear Analysis: Theory, Methods & Applications, 2019, 179, 294-308.	1.1	8
33	Some symmetric boundary value problems and non-symmetric solutions. Journal of Differential Equations, 2015, 259, 796-816.	2.2	7
34	Spectral stability for the wave equation with periodic forcing. Journal of Differential Equations, 2018, 265, 2470-2501.	2.2	7
35	Numerical studies on classical electrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 162, 313-322.	2.1	6
36	Uniqueness and Bifurcation Branches for Planar Steady Navier-Stokes Equations Under Navier Boundary Conditions. Journal of Mathematical Fluid Mechanics, 2021, 23, 1.	1.0	6

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37	A path integral based model for stocks and order dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 510, 387-399.	2.6	3
38	Some Breathers and Multi-breathers for FPU-Type Chains. <i>Communications in Mathematical Physics</i> , 2019, 372, 1117-1146.	2.2	3
39	A model for stocks dynamics based on a non-Gaussian path integral. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 517, 499-514.	2.6	3
40	What Is Really Quantum in Quantum Econophysics?. <i>Philosophy of Science</i> , 2021, 88, 665-685.	1.0	3
41	A Hopf Bifurcation in the Planar Navier-Stokes Equations. <i>Journal of Mathematical Fluid Mechanics</i> , 2021, 23, 1.	1.0	2
42	Computer assisted proof of branches of stationary and periodic solutions, and Hopf bifurcations, for dissipative PDEs. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 105, 106079.	3.3	2
43	Optimization of the Forcing Term for the Solution of Two-Point Boundary Value Problems. <i>Journal of Mathematics</i> , 2013, 2013, 1-5.	1.0	0
44	Some Reversing Orbits for a Rattleback Model. <i>Journal of Nonlinear Science</i> , 2022, 32, 1.	2.1	0