

Pierangelo A Marcati

List of Publications by Year in descending order

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86
papers

1,938
citations

257357

24
h-index

254106

43
g-index

94
all docs

94
docs citations

94
times ranked

447
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault shape effect on SH waves using finite element method. <i>Journal of Seismology</i> , 2022, 26, 417-437.	0.6	3
2	Dissipative martingale solutions of the stochastically forced Navier–Stokes–Poisson system on domains without boundary. <i>Nonlinear Analysis: Real World Applications</i> , 2021, 57, 103201.	0.9	1
3	Genuine Hydrodynamic Analysis to the 1-D QHD System: Existence, Dispersion and Stability. <i>Communications in Mathematical Physics</i> , 2021, 383, 2113-2161.	1.0	5
4	Linear stability analysis of the homogeneous Couette flow in a 2D isentropic compressible fluid. <i>Annals of PDE</i> , 2021, 7, 1.	0.8	14
5	Splash Singularities for a General Oldroyd Model with Finite Weissenberg Number. <i>Archive for Rational Mechanics and Analysis</i> , 2020, 235, 1589-1660.	1.1	3
6	Dispersive shocks in quantum hydrodynamics with viscosity. <i>Physica D: Nonlinear Phenomena</i> , 2020, 402, 132222.	1.3	7
7	Numerical investigations of dispersive shocks and spectral analysis for linearized quantum hydrodynamics. <i>Applied Mathematics and Computation</i> , 2020, 385, 125450.	1.4	5
8	A General 3D Model for Growth Dynamics of Sensory-Growth Systems: From Plants to Robotics. <i>Frontiers in Robotics and AI</i> , 2020, 7, 89.	2.0	17
9	On the Low Mach Number Limit for Quantum Navier–Stokes Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 6105-6139.	0.9	8
10	Optimal control of plant root tip dynamics in soil. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056006.	1.5	10
11	Splash singularity for a free-boundary incompressible viscoelastic fluid model. <i>Advances in Mathematics</i> , 2020, 368, 107124.	0.5	2
12	Non-relativistic limit analysis of the Chandrasekhar–Thorne relativistic Euler equations with physical vacuum. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 531-579.	1.7	8
13	Stability for the quadratic derivative nonlinear Schrödinger equation and applications to the Korteweg–Kirchhoff type Euler equations for quantum hydrodynamics. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2019, 186, 209-218.	0.6	2
14	A comparison of two mathematical models of the cerebrospinal fluid dynamics. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 2811-2851.	1.0	1
15	Analysis of solutions for a cerebrospinal fluid model. <i>Nonlinear Analysis: Real World Applications</i> , 2018, 44, 417-448.	0.9	6
16	Splash Singularity for a Free-Boundary Incompressible Viscoelastic Fluid Model. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 501-513.	0.1	3
17	The Cauchy Problem for the Maxwell–Schrödinger System with a Power-Type Nonlinearity. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 71-83.	0.1	0
18	Stationary solution for transient quantum hydrodynamics with bohmian-type boundary conditions. <i>Computational and Applied Mathematics</i> , 2017, 36, 459-479.	1.3	9

#	ARTICLE	IF	CITATIONS
19	A model of synchronization over quantum networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 315101.	0.7	14
20	Splash singularities for a 2D Oldroyd-B model with nonlinear Piola-Kirchhoff stress. <i>Nonlinear Differential Equations and Applications</i> , 2017, 24, 1.	0.4	4
21	The Wigner-Lohe model for quantum synchronization and its emergent dynamics. <i>Networks and Heterogeneous Media</i> , 2017, 12, 403-416.	0.5	7
22	Nonlinear Maxwell-Schrödinger system and quantum magneto-hydrodynamics in \mathbb{R}^3 . <i>Communications in Mathematical Sciences</i> , 2017, 15, 451-479.	0.5	7
23	Dispersive behaviour in the analysis of acoustic waves and plasma oscillations. <i>Bulletin of the Brazilian Mathematical Society</i> , 2016, 47, 291-305.	0.3	0
24	Low Mach number limit for the quantum hydrodynamics system. <i>Research in Mathematical Sciences</i> , 2016, 3, 1.	0.5	30
25	Quantum hydrodynamics with nonlinear interactions. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2016, 9, 1-13.	0.6	3
26	Quasi-Neutral Limit, Dispersion, and Oscillations for Korteweg-Type Fluids. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 2265-2282.	0.9	22
27	Well/ill Posedness for the Euler-Korteweg-Poisson System and Related Problems. <i>Communications in Partial Differential Equations</i> , 2015, 40, 1314-1335.	1.0	45
28	ASYMPTOTIC BEHAVIOR OF NONLINEAR SCHRÖDINGER SYSTEMS WITH LINEAR COUPLING. <i>Journal of Hyperbolic Differential Equations</i> , 2014, 11, 159-183.	0.3	7
29	The Quasineutral Limit for the Navier-Stokes-Fourier-Poisson System. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 193-206.	0.1	3
30	Steady states and interface transmission conditions for heterogeneous quantum-classical 1-D hydrodynamic model of semiconductor devices. <i>Physica D: Nonlinear Phenomena</i> , 2013, 243, 1-13.	1.3	11
31	Incompressible Type Limit Analysis of a Hydrodynamic Model for Charge-Carrier Transport. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 915-933.	0.9	11
32	Analysis of Oscillations and Defect Measures for the Quasineutral Limit in Plasma Physics. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 206, 159-188.	1.1	21
33	Low Mach Number Limit on Exterior Domains. <i>Acta Mathematica Scientia</i> , 2012, 32, 164-176.	0.5	2
34	The Quantum Hydrodynamics System in Two Space Dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 203, 499-527.	1.1	61
35	Analysis of Quasineutral Limits. <i>Series in Contemporary Applied Mathematics</i> , 2012, , 390-397.	0.8	0
36	APPLICATION OF THE DIV-CURL LEMMA FOR MAXWELL'S EQUATIONS WITH NON-LINEAR CONDUCTIVITY. <i>Journal of Hyperbolic Differential Equations</i> , 2011, 08, 257-267.	0.3	1

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37	CONVERGENCE OF A BGK APPROXIMATION OF THE ISENTROPIC EULER EQUATIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2011, 08, 233-255.	0.3	2
38	Finite Energy Weak Solutions to the Quantum Hydrodynamics System. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2011, , 205-216.	0.5	0
39	Leray weak solutions of the incompressible Navier Stokes system on exterior domains via the artificial compressibility method. <i>Indiana University Mathematics Journal</i> , 2010, 59, 1831-1852.	0.4	14
40	On the Finite Energy Weak Solutions to a System in Quantum Fluid Dynamics. <i>Communications in Mathematical Physics</i> , 2009, 287, 657-686.	1.0	91
41	Preface II. <i>Kinetic and Related Models</i> , 2009, 2, v-vii.	0.5	1
42	A quasineutral type limit for the Navier-Stokes-Poisson system with large data. <i>Nonlinearity</i> , 2008, 21, 135-148.	0.6	72
43	Artificial Compressibility Approximation for the Incompressible Navier-Stokes Equations on Unbounded Domain. , 2008, , 475-483.		0
44	A DISPERSIVE APPROACH TO THE ARTIFICIAL COMPRESSIBILITY APPROXIMATIONS OF THE NAVIER-STOKES EQUATIONS IN 3D. <i>Journal of Hyperbolic Differential Equations</i> , 2006, 03, 575-588.	0.3	22
45	Convergence to the Barenblatt Solution for the Compressible Euler Equations with Damping and Vacuum. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 176, 1-24.	1.1	113
46	Optimal Convergence Rates to Diffusion Waves for Solutions of the Hyperbolic Conservation Laws with Damping. <i>Journal of Mathematical Fluid Mechanics</i> , 2005, 7, S224-S240.	0.4	53
47	Convergence of singular limits for multi-D semilinear hyperbolic systems to parabolic systems. <i>Transactions of the American Mathematical Society</i> , 2004, 356, 2093-2121.	0.5	29
48	Existence and Asymptotic Behavior of Multi-Dimensional Quantum Hydrodynamic Model for Semiconductors. <i>Communications in Mathematical Physics</i> , 2004, 245, 215-247.	1.0	75
49	A Quasi-Neutral Limit in a Hydrodynamic Model for Charged Fluids. <i>Monatshefte Fur Mathematik</i> , 2003, 138, 189-208.	0.5	12
50	Global well-posedness and relaxation limits of a model for radiating gas. <i>Journal of Differential Equations</i> , 2003, 190, 439-465.	1.1	69
51	The L^p - L^q estimates of solutions to one-dimensional damped wave equations and their application to the compressible flow through porous media. <i>Journal of Differential Equations</i> , 2003, 191, 445-469.	1.1	113
52	SINGULAR CONVERGENCE TO NONLINEAR DIFFUSION WAVES FOR SOLUTIONS TO THE CAUCHY PROBLEM FOR THE COMPRESSIBLE EULER EQUATIONS WITH DAMPING. <i>Mathematical Models and Methods in Applied Sciences</i> , 2002, 12, 1317-1336.	1.7	5
53	Singular Limits for Nonlinear Hyperbolic Systems. , 2002, , 79-96.		2
54	On the Diffusive Profiles for the System of Compressible Adiabatic Flow through Porous Media. <i>SIAM Journal on Mathematical Analysis</i> , 2001, 33, 790-826.	0.9	36

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55	The combined relaxation and vanishing Debye length limit in the hydrodynamic model for semiconductors. <i>Mathematical Methods in the Applied Sciences</i> , 2001, 24, 81-92.	1.2	38
56	A Vanishing Debye Length Limit in a Hydrodynamic Model for Semiconductors. , 2001, , 409-414.		2
57	Parabolic Relaxation of Semilinear Multidimensional Hyperbolic Systems. , 2001, , 307-316.		0
58	Hyperbolic to Parabolic Relaxation Theory for Quasilinear First Order Systems. <i>Journal of Differential Equations</i> , 2000, 162, 359-399.	1.1	73
59	Convergence to nonlinear diffusion waves for solutions of the initial boundary problem to the hyperbolic conservation laws with damping. <i>Quarterly of Applied Mathematics</i> , 2000, 58, 763-784.	0.5	49
60	Cauchy problem for compressible Euler equations with damping. , 2000, , 315-317.		1
61	The zero relaxation limit for $2\tilde{A}-2$ hyperbolic systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1999, 38, 375-389.	0.6	18
62	Evolution of hypersurfaces in \mathbb{R}^N by Gaussian curvature. <i>Nonlinear Differential Equations and Applications</i> , 1999, 6, 119-132.	0.4	0
63	The relaxation to the drift-diffusion system for the 3-D isentropic Euler-Poisson model for semiconductors. <i>Discrete and Continuous Dynamical Systems</i> , 1999, 5, 449-455.	0.5	50
64	Global weak entropy solutions to quasilinear wave equations of Klein-Gordon and Sine-Gordon type. <i>Journal of the Mathematical Society of Japan</i> , 1998, 50, 433.	0.3	10
65	The Zero Relaxation Limit for the Hydrodynamic Whitham Traffic Flow Model. <i>Journal of Differential Equations</i> , 1997, 141, 150-178.	1.1	28
66	Weak solutions to a hydrodynamic model for semiconductors: the Cauchy problem. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1995, 125, 115-131.	0.8	71
67	Weak solutions to a hydrodynamic model for semiconductors and relaxation to the drift-diffusion equation. <i>Archive for Rational Mechanics and Analysis</i> , 1995, 129, 129-145.	1.1	184
68	Approximate solutions to first and second order quasilinear evolution equations via nonlinear viscosity. <i>Transactions of the American Mathematical Society</i> , 1994, 342, 501-521.	0.5	2
69	Convergence of the pseudo-viscosity approximation for conservation laws. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1994, 23, 621-628.	0.6	12
70	The one-dimensional Darcy's law as the limit of a compressible Euler flow. <i>Journal of Differential Equations</i> , 1990, 84, 129-147.	1.1	126
71	Fluid flow in macromolecular systems and related perturbation problems. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 1990, 11, 73-92.	0.3	0
72	Singular convergence of weak solutions for a quasilinear nonhomogeneous hyperbolic system. <i>Manuscripta Mathematica</i> , 1988, 60, 49-69.	0.3	35

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73	Approximate solutions to conservation laws via convective parabolic equations. Communications in Partial Differential Equations, 1988, 13, 321-344.	1.0	20
74	Nonhomogeneous quasilinear hyperbolic systems: Initial and boundary value problem. Lecture Notes in Mathematics, 1988, , 193-200.	0.1	0
75	Approximate Solutions to Conservation Laws Via Convective Parabolic Equations : Analytical and Numerical Results. , 1987, , 169-177.		0
76	Abstract stability theory and applications to hyperbolic equations with time dependent dissipative force fields. Computers and Mathematics With Applications, 1986, 12, 541-550.	1.4	3
77	Almost periodic solutions for a semilinear quasi-autonomous hyperbolic problem. Nonlinear Analysis: Theory, Methods & Applications, 1986, 10, 1053-1067.	0.6	1
78	On a nonconservative huyperbolic system describing the nonlinear age dependent populations growth. Computers and Mathematics With Applications, 1985, 11, 207-222.	1.4	1
79	Stability for second order abstract evolution equations. Nonlinear Analysis: Theory, Methods & Applications, 1984, 8, 237-252.	0.6	18
80	Decay and stability for nonlinear hyperbolic equations. Journal of Differential Equations, 1984, 55, 30-58.	1.1	21
81	Some considerations on the mathematical approach to nonlinear age dependent population dynamics. Computers and Mathematics With Applications, 1983, 9, 361-370.	1.4	6
82	SOME CONSIDERATIONS ON THE MATHEMATICAL APPROACH TO NONLINEAR AGE DEPENDENT POPULATION DYNAMICS. , 1983, , 361-369.		1
83	On the global stability of the logistic age-dependent population growth. Journal of Mathematical Biology, 1982, 15, 215-226.	0.8	28
84	ASYMPTOTIC BEHAVIOR OF THE RENEWAL EQUATION ARISING IN THE GURTIN POPULATION MODEL. , 1982, , 655-662.		2
85	Asymptotic Behavior in Age-Dependent Population Dynamics with Hereditary Renewal Law. SIAM Journal on Mathematical Analysis, 1981, 12, 904-916.	0.9	29
86	Global asymptotic stability for a vector disease model with spatial spread. Journal of Mathematical Biology, 1980, 9, 179-187.	0.8	32