Eduard Feireisl

List of Publications by Year
in descending order

275	6,093	39	60
papers	citations	h-index	g-index
		81839	128225

292	292	292	996
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Singular Limits in Thermodynamics of Viscous Fluids. , 2009, , .		290
2	The Equations of Magnetohydrodynamics: On the Interaction Between Matter and Radiation in the Evolution of Gaseous Stars. Communications in Mathematical Physics, 2006, 266, 595-629.	1.0	226
3	Relative Entropies, Suitable Weak Solutions, and Weak-Strong Uniqueness for the Compressible Navierâ€"Stokes System. Journal of Mathematical Fluid Mechanics, 2012, 14, 717-730.	0.4	168
4	Weakâ€"Strong Uniqueness Property for the Full Navierâ€"Stokesâ€"Fourier System. Archive for Rational Mechanics and Analysis, 2012, 204, 683-706.	1.1	140
5	On the motion of a viscous, compressible, and heat conducting fluid. Indiana University Mathematics Journal, 2004, 53, 1707-1740.	0.4	129
6	Suitable weak solutions to the Navier-Stokes equations of compressible viscous fluids. Indiana University Mathematics Journal, 2011, 60, 611-632.	0.4	109
7	Compressible Navierâ€"Stokes Equations with a Non-Monotone Pressure Law. Journal of Differential Equations, 2002, 184, 97-108.	1.1	96
8	Singular Limits in Thermodynamics of Viscous Fluids. Advances in Mathematical Fluid Mechanics, 2017, , .	0.1	95
9	On the Motion of Rigid Bodies in a Viscous Compressible Fluid. Archive for Rational Mechanics and Analysis, 2003, 167, 281-308.	1.1	94
10	Large-time Behaviour of SolutionsÂ¶to the Navier-Stokes EquationsÂ¶of Compressible Flow. Archive for Rational Mechanics and Analysis, 1999, 150, 77-96.	1.1	90
11	ANALYSIS OF A PHASE-FIELD MODEL FOR TWO-PHASE COMPRESSIBLE FLUIDS. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1129-1160.	1.7	87
12	The Low Mach Number Limit for the Full Navierâ€"Stokesâ€"Fourier System. Archive for Rational Mechanics and Analysis, 2007, 186, 77-107.	1.1	79
13	On a diffuse interface model for a two-phase flow of compressible viscous fluids. Indiana University Mathematics Journal, 2008, 57, 659-698.	0.4	75
14	Convergence for Semilinear Degenerate Parabolic Equations in Several Space Dimensions. Journal of Dynamics and Differential Equations, 2000, 12, 647-673.	1.0	74
15	A Navierâ€"Stokesâ€"Fourier system for incompressible fluids with temperature dependent material coefficients. Nonlinear Analysis: Real World Applications, 2009, 10, 992-1015.	0.9	74
16	Global in time weak solutions for compressible barotropic self-gravitating fluids. Discrete and Continuous Dynamical Systems, 2004, 11, 113-130.	0.5	74
17	On the Motion of a Viscous Compressible Fluid Driven by a Time-Periodic External Force. Archive for Rational Mechanics and Analysis, 1999, 149, 69-96.	1.1	68
18	On the Dynamics of Gaseous Stars. Archive for Rational Mechanics and Analysis, 2004, 174, 221-266.	1.1	68

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19	On the motion of rigid bodies in a viscous incompressible fluid. Journal of Evolution Equations, 2003, 3, 419-441.	0.6	66
20	Time-Periodic Solutions to the Full Navierâ€“Stokesâ€“Fourier System. Archive for Rational Mechanics and Analysis, 2012, 204, 745-786.	1.1	66
21	On the asymptotic limit of the Navierâ€“Stokes system on domains with rough boundaries. Journal of Differential Equations, 2008, 244, 2890-2908.	1.1	62
22	On the domain dependence of solutions to the compressible Navier-Stokes equations of a barotropic fluid. Mathematical Methods in the Applied Sciences, 2002, 25, 1045-1073.	1.2	61
23	Regularity and Energy Conservation for the Compressible Euler Equations. Archive for Rational Mechanics and Analysis, 2017, 223, 1375-1395.	1.1	61
24	Dissipative measure-valued solutions to the compressible Navierâ€“Stokes system. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	0.9	59
25	On Integrability up to the boundary of the weak solutions of the navierâ€”stokes equations of compressible flow. Communications in Partial Differential Equations, 2000, 25, 755-767.	1.0	58
26	On convergence to equilibria for the Kellerâ€“Segel chemotaxis model. Journal of Differential Equations, 2007, 236, 551-569.	1.1	57
27	A New Approach to Non-Isothermal Models for Nematic Liquid Crystals. Archive for Rational Mechanics and Analysis, 2012, 205, 651-672.	1.1	56
28	Global attractors for semilinear wave equations with locally distributed nonlinear damping and critical exponent. Communications in Partial Differential Equations, 1993, 18, 1539-1555.	1.0	55
29	Inviscid Incompressible Limits of the Full Navier-Stokes-Fourier System. Communications in Mathematical Physics, 2013, 321, 605-628.	1.0	52
30	Analysis of a diffuse interface model of multispecies tumor growth. Nonlinearity, 2017, 30, 1639-1658.	0.6	52
31	Long-time convergence of solutions to a phase-field system. Mathematical Methods in the Applied Sciences, 2001, 24, 277-287.	1.2	49
32	Multicomponent reactive flows: Global-in-time existence for large data. Communications on Pure and Applied Analysis, 2008, 7, 1017-1047.	0.4	46
33	The Oberbeckâ€“Boussinesq Approximation as a Singular Limit of the Full Navierâ€“Stokesâ€“Fourier System. Journal of Mathematical Fluid Mechanics, 2009, 11, 274-302.	0.4	45
34	On a non-isothermal model for nematic liquid crystals. Nonlinearity, 2011, 24, 243-257.	0.6	45
35	Well/Ill Posedness for the Euler-Korteweg-Poisson System and Related Problems. Communications in Partial Differential Equations, 2015, 40, 1314-1335.	1.0	45
36	Long-time stabilization of solutions to a phase-field model with memory. Journal of Evolution Equations, 2001, 1, 69-84.	0.6	44

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37	Asymptotic behaviour and attractors for a semilinear damped wave equation with supercritical exponent. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1995, 125, 1051-1062.	0.8	42
38	On a simple model of reacting compressible flows arising in astrophysics. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2005, 135, 1169-1194.	0.8	42
39	On the Navier-Stokes equations with temperature-dependent transport coefficients. Differential Equations and Nonlinear Mechanics, 2006, 2006, 1-14.	0.3	42
40	Mathematical theory of compressible, viscous, and heat conducting fluids. Computers and Mathematics With Applications, 2007, 53, 461-490.	1.4	42
41	Some existence, uniqueness and nonuniqueness theorems for solutions of parabolic equations with discontinuous nonlinearities. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1991, 119, 1-17.	0.8	40
42	On a model in radiation hydrodynamics. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 797-812.	0.7	40
43	Dimension Reduction for Compressible Viscous Fluids. Acta Applicandae Mathematicae, 2014, 134, 111-121.	0.5	40
44	Boundary Behavior of Viscous Fluids: Influence of Wall Roughness and Friction-driven Boundary Conditions. Archive for Rational Mechanics and Analysis, 2010, 197, 117-138.	1.1	39
45	Relative entropies in thermodynamics of complete fluid systems. Discrete and Continuous Dynamical Systems, 2012, 32, 3059-3080.	0.5	39
46	A non-smooth version of the Lojasiewiczâ€"Simon theorem with applications to non-local phase-field systems. Journal of Differential Equations, 2004, 199, 1-21.	1.1	37
47	Convergence of a Brinkman-type penalization for compressible fluid flows. Journal of Differential Equations, 2011, 250, 596-606.	1.1	37
48	Convergence of a Mixed Finite Elementâ€"Finite Volume Scheme for the Isentropic Navierâ€"Stokes System via Dissipative Measure-Valued Solutions. Foundations of Computational Mathematics, 2018, 18, 703-730.	1.5	36
49	On the weak solutions to the equations of a compressible heat conducting gas. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 225-243.	0.7	35
50	A convergent numerical method for the Navierâ€"Stokesâ€"Fourier system. IMA Journal of Numerical Analysis, 2016, 36, 1477-1535.	1.5	35
51	Attractors for semilinear damped wave equations on 3. Nonlinear Analysis: Theory, Methods & Applications, 1994, 23, 187-195.	0.6	34
52	On the zero-velocity-limit solutions to the Navier-Stokes equations of compressible flow. Manuscripta Mathematica, 1998, 97, 109-116.	0.3	34
53	Stability of Flows of Real Monoatomic Gases. Communications in Partial Differential Equations, 2006, 31, 325-348.	1.0	33
54	Existence globale pour un fluide barotrope autogravitant. Comptes Rendus Mathematique, 2001, 332, 627-632.	0.5	32

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55	Shape Optimization in Viscous Compressible Fluids. Applied Mathematics and Optimization, 2002, 47, 59-78.	0.8	32
56	Anelastic Approximation as a Singular Limit of the Compressible Navierâ€“Stokes System. Communications in Partial Differential Equations, 2008, 33, 157-176.	1.0	32
57	A Singular Limit for Compressible Rotating Fluids. SIAM Journal on Mathematical Analysis, 2012, 44, 192-205.	0.9	32
58	Multi-scale Analysis of Compressible Viscous and Rotating Fluids. Communications in Mathematical Physics, 2012, 314, 641-670.	1.0	32
59	On the motion of several rigid bodies in an incompressible non-Newtonian fluid. Nonlinearity, 2008, 21, 1349-1366.	0.6	31
60	Existence of solutions to a phase transition model with microscopic movements. Mathematical Methods in the Applied Sciences, 2009, 32, 1345-1369.	1.2	31
61	Multiple Scales and Singular Limits for Compressible Rotating Fluids with General Initial Data. Communications in Partial Differential Equations, 2014, 39, 1104-1127.	1.0	31
62	Measure-valued solutions to the complete Euler system. Journal of the Mathematical Society of Japan, 2018, 70, .	0.3	30
63	Dissipative solutions and the incompressible inviscid limits of the compressible magnetohydrodynamic system in unbounded domains. Discrete and Continuous Dynamical Systems, 2014, 34, 121-143.	0.5	30
64	Maximal Dissipation and Well-posedness for the Compressible Euler System. Journal of Mathematical Fluid Mechanics, 2014, 16, 447-461.	0.4	28
65	Weak solutions to the barotropic Navierâ€“Stokes system with slip boundary conditions in time dependent domains. Journal of Differential Equations, 2013, 254, 125-140.	1.1	27
66	Uniqueness of rarefaction waves in multidimensional compressible Euler system. Journal of Hyperbolic Differential Equations, 2015, 12, 489-499.	0.3	27
67	Evolution of non-isothermal Landauâ€“de Gennes nematic liquid crystals flows with singular potential. Communications in Mathematical Sciences, 2014, 12, 317-343.	0.5	27
68	On the motion of rigid bodies in a viscous fluid. Applications of Mathematics, 2002, 47, 463-484.	0.9	26
69	A regularizing effect of radiation in the equations of fluid dynamics. Mathematical Methods in the Applied Sciences, 2005, 28, 661-685.	1.2	26
70	The incompressible limit of the full Navierâ€“Stokesâ€“Fourier system on domains with rough boundaries. Nonlinear Analysis: Real World Applications, 2009, 10, 3203-3229.	0.9	26
71	Scale interactions in compressible rotating fluids. Annali Di Matematica Pura Ed Applicata, 2014, 193, 1703-1725.	0.5	26
72	Time periodic solutions to a semilinear beam equation. Nonlinear Analysis: Theory, Methods & Applications, 1988, 12, 279-290.	0.6	25

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73	On Compactness of Solutions to the Navierâ€"Stokes Equations of Compressible Flow. Journal of Differential Equations, 2000, 163, 57-75.	1.1	25
74	Local strong solutions to the stochastic compressible Navierâ€"Stokes system. Communications in Partial Differential Equations, 2018, 43, 313-345.	1.0	25
75	On a hyperbolic system arising in liquid crystals modeling. Journal of Hyperbolic Differential Equations, 2018, 15, 15-35.	0.3	25
76	Asymptotic Compactness of Global Trajectories Generated by the Navierâ€"Stokes Equations of a Compressible Fluid. Journal of Differential Equations, 2001, 173, 390-409.	1.1	24
77	On the Asymptotic Limit of Flows Past a Ribbed Boundary. Journal of Mathematical Fluid Mechanics, 2008, 10, 554-568.	0.4	24
78	A Regularity Criterion for the Weak Solutions to the Navierâ€"Stokesâ€"Fourier System. Archive for Rational Mechanics and Analysis, 2014, 212, 219-239.	1.1	23
79	Homogenization of Stationary Navierâ€"Stokes Equations in Domains with Tiny Holes. Journal of Mathematical Fluid Mechanics, 2015, 17, 381-392.	0.4	23
80	Nonisothermal nematic liquid crystal flows with the Ballâ€"Majumdar free energy. Annali Di Matematica Pura Ed Applicata, 2015, 194, 1269-1299.	0.5	23
81	Compressible Fluids Driven by Stochastic Forcing: The Relative Energy Inequality and Applications. Communications in Mathematical Physics, 2017, 350, 443-473.	1.0	23
82	Homogenization and singular limits for the complete Navierâ€"Stokesâ€"Fourier system. Journal Des Mathematiques Pures Et Appliquees, 2010, 94, 33-57.	0.8	22
83	On singular limits arising in the scale analysis of stratified fluid flows. Mathematical Models and Methods in Applied Sciences, 2016, 26, 419-443.	1.7	22
84	Homogenization of the evolutionary Navierâ€"Stokes system. Manuscripta Mathematica, 2016, 149, 251-274.	0.3	22
85	A finite volume scheme for the Euler system inspired by the two velocities approach. Numerische Mathematik, 2020, 144, 89-132.	0.9	22
86	Dissipative Solutions and Semiflow Selection for the Complete Euler System. Communications in Mathematical Physics, 2020, 376, 1471-1497.	1.0	22
87	ON THE INCOMPRESSIBLE LIMIT FOR THE NAVIERâ€"STOKESâ€"FOURIER SYSTEM IN DOMAINS WITH WAVY BOTTOMS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 291-324.	1.7	20
88	Influence of wall roughness on the slip behaviour of viscous fluids. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2008, 138, 957-973.	0.8	20
89	Incompressible Limits and Propagation of Acoustic Waves in Large Domains with Boundaries. Communications in Mathematical Physics, 2010, 294, 73-95.	1.0	20
90	Compressible fluid flows driven by stochastic forcing. Journal of Differential Equations, 2013, 254, 1342-1358.	1.1	20

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91	Inviscid Incompressible Limits Under Mild Stratification: A Rigorous Derivation of the Eulerâ€“Boussinesq System. Applied Mathematics and Optimization, 2014, 70, 279-307.	0.8	20
92	Incompressible Limit for Compressible Fluids with Stochastic Forcing. Archive for Rational Mechanics and Analysis, 2016, 222, 895-926.	1.1	20
93	The inverse of the divergence operator on perforated domains with applications to homogenization problems for the compressible Navierâ€“Stokes system. ESAIM - Control, Optimisation and Calculus of Variations, 2017, 23, 851-868.	0.7	20
94	On oscillatory solutions to the complete Euler system. Journal of Differential Equations, 2020, 269, 1521-1543.	1.1	20
95	Long-Time Stabilization of Solutions to the Ginzburg-Landau Equations of Superconductivity. Monatshefte Fur Mathematik, 2001, 133, 197-221.	0.5	19
96	On the Long-Time Behaviour of Solutions to the Navierâ€“Stokesâ€“Fourier System with a Time-Dependent Driving Force. Journal of Dynamics and Differential Equations, 2007, 19, 685-707.	1.0	19
97	Convergence of a finite volume scheme for the compressible Navierâ€“Stokes system. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1957-1979.	0.8	19
98	Convergence of Finite Volume Schemes for the Euler Equations via Dissipative Measure-Valued Solutions. Foundations of Computational Mathematics, 2020, 20, 923-966.	1.5	19
99	Solution Semiflow to the Isentropic Euler System. Archive for Rational Mechanics and Analysis, 2020, 235, 167-194.	1.1	19
100	On solvability and ill-posedness of the compressible Euler system subject to stochastic forces. Analysis and PDE, 2020, 13, 371-402.	0.6	19
101	Navier's slip and incompressible limits in domains with variable bottoms. Discrete and Continuous Dynamical Systems - Series S, 2008, 1, 427-460.	0.6	19
102	Scale analysis of a hydrodynamic model of plasma. Mathematical Models and Methods in Applied Sciences, 2015, 25, 371-394.	1.7	18
103	On PDE analysis of flows of quasi-incompressible fluids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 491-508.	0.9	18
104	Weak solutions for Euler systems with non-local interactions. Journal of the London Mathematical Society, 2017, 95, 705-724.	0.5	18
105	Propagation of oscillations, complete trajectories and attractors for compressible flows. Nonlinear Differential Equations and Applications, 2003, 10, 33-55.	0.4	17
106	Large time behaviour of flows of compressible, viscous, and heat conducting fluids. Mathematical Methods in the Applied Sciences, 2006, 29, 1237-1260.	1.2	17
107	Non-isothermal Smoluchowskiâ€“Poisson equations as a singular limit of the Navierâ€“Stokesâ€“Fourierâ€“Poisson system. Journal Des Mathematiques Pures Et Appliquees, 2007, 88, 325-349.	0.8	17
108	Quasi-Neutral Limit for a Model of Viscous Plasma. Archive for Rational Mechanics and Analysis, 2010, 197, 271-295.	1.1	17

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109	STABILITY WITH RESPECT TO DOMAIN OF THE LOW MACH NUMBER LIMIT OF COMPRESSIBLE VISCOUS FLUIDS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 2465-2493.	1.7	17
110	A Rigorous Justification of the Euler and Navier--Stokes Equations with Geometric Effects. SIAM Journal on Mathematical Analysis, 2016, 48, 3907-3930.	0.9	17
111	$${mathcal {A}}$$ A -free rigidity and applications to the compressible Euler system. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1557-1572.	0.5	17
112	?-convergence as a new tool in numerical analysis. IMA Journal of Numerical Analysis, 2020, 40, 2227-2255.	1.5	17
113	New Perspectives in Fluid Dynamics: Mathematical Analysis of a Model Proposed by Howard Brenner. , 2009, , 153-179.		17
114	Navierâ€"Stokesâ€"Fourier system with Dirichlet boundary conditions. Applicable Analysis, 2022, 101, 4076-4094.	0.6	17
115	BOUNDED ABSORBING SETS FOR THE NAVIER-STOKES EQUATIONS OF COMPRESSIBLE FLUID. Communications in Partial Differential Equations, 2001, 26, 1133-1144.	1.0	16
116	On asymptotic isotropy for a hydrodynamic model of liquid crystals. Asymptotic Analysis, 2016, 97, 189-210.	0.2	16
117	On the motion of viscous, compressible, and heat-conducting liquids. Journal of Mathematical Physics, 2016, 57, 083101.	0.5	16
118	On the Low Mach Number Limit for the Compressible Euler System. SIAM Journal on Mathematical Analysis, 2019, 51, 1496-1513.	0.9	16
119	On global-in-time weak solutions to the magnetohydrodynamic system of compressible inviscid fluids. Nonlinearity, 2020, 33, 139-155.	0.6	16
120	Weak-strong uniqueness for the compressible Navier-Stokes equations with a hard-sphere pressure law. Science China Mathematics, 2018, 61, 2003-2016.	0.8	15
121	On a class of generalized solutions to equations describing incompressible viscous fluids. Annali Di Matematica Pura Ed Applicata, 2020, 199, 1183-1195.	0.5	15
122	On incompressible limits for the Navier-Stokes system on unbounded domains under slip boundary conditions. Discrete and Continuous Dynamical Systems - Series B, 2010, 13, 783-798.	0.5	15
123	A note on uniqueness for parabolic problems with discontinuous nonlinearities. Nonlinear Analysis: Theory, Methods & Applications, 1991, 16, 1053-1056.	0.6	14
124	Finite-dimensional asymptotic behavior of some semilinear damped hyperbolic problems. Journal of Dynamics and Differential Equations, 1994, 6, 23-35.	1.0	14
125	Large time behaviour of solutions to Penrose-Fife phase change models. Mathematical Methods in the Applied Sciences, 2005, 28, 2117-2132.	1.2	14
126	Low Mach Number Limit for the Navierâ€"Stokes System on Unbounded Domains Under Strong Stratification. Communications in Partial Differential Equations, 2009, 35, 68-88.	1.0	14

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127	Stationary solutions to the compressible Navierâ€“Stokes system with general boundary conditions. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2018, 35, 1457-1475.	0.7	14
128	Asymptotic Preserving Error Estimates for Numerical Solutions of Compressible Navier--Stokes Equations in the Low Mach Number Regime. Multiscale Modeling and Simulation, 2018, 16, 150-183.	0.6	14
129	On the Vanishing Electron-Mass Limit in Plasma Hydrodynamics in Unbounded Media. Journal of Nonlinear Science, 2012, 22, 985-1012.	1.0	13
130	Convergence of a numerical method for the compressible Navierâ€“Stokes system on general domains. Numerische Mathematik, 2016, 134, 667-704.	0.9	13
131	On uniqueness of dissipative solutions to the isentropic Euler system. Communications in Partial Differential Equations, 2019, 44, 1285-1298.	1.0	13
132	On the motion of rigid bodies in a viscous incompressible fluid. , 2003, , 419-441.		13
133	Exponential attractors for non-autonomous systems: Long-time behaviour of vibrating beams. Mathematical Methods in the Applied Sciences, 1992, 15, 287-297.	1.2	12
134	Inviscid incompressible limits on expanding domains. Nonlinearity, 2014, 27, 2465-2477.	0.6	12
135	Error estimates for a numerical method for the compressible Navierâ€“Stokes system on sufficiently smooth domains. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 279-319.	0.8	12
136	Measure-valued solutions to the complete Euler system revisited. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	0.7	12
137	On weakâ€“strong uniqueness for the compressible Navierâ€“Stokes system with non-monotone pressure law. Communications in Partial Differential Equations, 2019, 44, 271-278.	1.0	12
138	Stability of Strong Solutions to the Navier--Stokes--Fourier System. SIAM Journal on Mathematical Analysis, 2020, 52, 1761-1785.	0.9	12
139	Long-time behavior and convergence for semilinear wave equations on â„•N. Journal of Dynamics and Differential Equations, 1997, 9, 133-155.	1.0	11
140	Local Decay of Acoustic Waves in the Low Mach Number Limits on General Unbounded Domains Under Slip Boundary Conditions. Communications in Partial Differential Equations, 2011, 36, 1778-1796.	1.0	11
141	Low Mach Number Limits of Compressible Rotating Fluids. Journal of Mathematical Fluid Mechanics, 2012, 14, 61-78.	0.4	11
142	Inviscid incompressible limits of strongly stratified fluids. Asymptotic Analysis, 2014, 89, 307-329.	0.2	11
143	Rotating compressible fluids under strong stratification. Nonlinear Analysis: Real World Applications, 2014, 19, 11-18.	0.9	11
144	Stationary solutions to the compressible Navierâ€“Stokes system driven by stochastic forces. Probability Theory and Related Fields, 2019, 174, 981-1032.	0.9	11

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145	Analysis of the adiabatic piston problem via methods of continuum mechanics. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2018, 35, 1377-1408.	0.7	10
146	Navierâ€“Stokesâ€“Fourier System with General Boundary Conditions. Communications in Mathematical Physics, 2021, 386, 975-1010.	1.0	10
147	Vanishing dissipation limit for the Navierâ€“Stokesâ€“Fourier system. Communications in Mathematical Sciences, 2016, 14, 1535-1551.	0.5	10
148	FLOWS OF VISCOUS COMPRESSIBLE FLUIDS UNDER STRONG STRATIFICATION: INCOMPRESSIBLE LIMITS FOR LONG-RANGE POTENTIAL FORCES. Mathematical Models and Methods in Applied Sciences, 2011, 21, 7-27.	1.7	8
149	Incompressible Limits of Fluids Excited by Moving Boundaries. SIAM Journal on Mathematical Analysis, 2014, 46, 1456-1471.	0.9	8
150	Dissipative weak solutions to compressible Navierâ€“Stokesâ€“Fokkerâ€“Planck systems with variable viscosity coefficients. Journal of Mathematical Analysis and Applications, 2016, 443, 322-351.	0.5	8
151	Stability of strong solutions for a model of incompressible twoâ€“phase flow under thermal fluctuations. Journal of Differential Equations, 2019, 267, 1836-1858.	1.1	8
152	On a class of compressible viscoelastic rate-type fluids with stress-diffusion. Nonlinearity, 2019, 32, 4665-4681.	0.6	8
153	On convergence of approximate solutions to the compressible Euler system. Annals of PDE, 2020, 6, 1.	0.8	8
154	On the Oberbeckâ€“Boussinesq Approximation on Unbounded Domains. Abel Symposia, 2012, , 131-168.	0.3	8
155	On the motion of incompressible inhomogeneous Euler-Korteweg fluids. Discrete and Continuous Dynamical Systems - Series S, 2010, 3, 497-515.	0.6	8
156	Viscous and/or Heat Conducting Compressible Fluids. Handbook of Mathematical Fluid Dynamics, 2002, , 307-371.	0.1	7
157	Robustness of strong solutions to the compressible Navier-Stokes system. Mathematische Annalen, 2015, 362, 281-303.	0.7	7
158	A Convergent Numerical Method for the Full Navier--Stokes--Fourier System in Smooth Physical Domains. SIAM Journal on Numerical Analysis, 2016, 54, 3062-3082.	1.1	7
159	The compressible Navierâ€“Stokesâ€“Cahnâ€“Hilliard equations with dynamic boundary conditions. Mathematical Models and Methods in Applied Sciences, 2019, 29, 2557-2584.	1.7	7
160	Relative energy approach to a diffuse interface model of a compressible twoâ€phase flow. Mathematical Methods in the Applied Sciences, 2019, 42, 1465-1479.	1.2	7
161	On the convergence of a finite volume method for the Navierâ€“Stokesâ€“Fourier system. IMA Journal of Numerical Analysis, 2021, 41, 2388-2422.	1.5	7
162	A Diffuse Interface Model of a Two-Phase Flow with Thermal Fluctuations. Applied Mathematics and Optimization, 2021, 83, 531-563.	0.8	7

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163	Computing oscillatory solutions of the Euler system via ?-convergence. Mathematical Models and Methods in Applied Sciences, 2021, 31, 537-576.	1.7	7
164	On weak solutions to a diffuse interface model of a binary mixture of compressible fluids. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 173-183.	0.6	7
165	Strong decay for wave equations with nonlinear nonmonotone damping. Nonlinear Analysis: Theory, Methods & Applications, 1993, 21, 49-63.	0.6	6
166	Polynomial stabilization of some dissipative hyperbolic systems. Discrete and Continuous Dynamical Systems, 2014, 34, 4371-4388.	0.5	6
167	On weak solutions to the 2D Savageâ€"Hutter model of the motion of a gravity-driven avalanche flow. Communications in Partial Differential Equations, 2016, 41, 759-773.	1.0	6
168	Unconditional convergence and error estimates for bounded numerical solutions of the barotropic Navierâ€"Stokes system. Numerical Methods for Partial Differential Equations, 2017, 33, 1208-1223.	2.0	6
169	Markov selection for the stochastic compressible Navierâ€"Stokes system. Annals of Applied Probability, 2020, 30, .	0.6	6
170	The zero-velocity limit solutions of the Navier-Stokes equations of compressible fluid revisited. Annali Dell'Universita Di Ferrara, 2000, 46, 209-218.	0.7	6
171	On the dynamics of semilinear damped wave equations on. Communications in Partial Differential Equations, 1993, 18, 1981-1999.	1.0	5
172	Front propagation for degenerate parabolic equations. Nonlinear Analysis: Theory, Methods & Applications, 1999, 35, 735-746.	0.6	5
173	Weak Sequential Stability of the Set of Admissible Variational Solutions to the Navier--Stokes--Fourier System. SIAM Journal on Mathematical Analysis, 2005, 37, 619-650.	0.9	5
174	Mathematical Models of Incompressible Fluids as Singular Limits of Complete Fluid Systems. Milan Journal of Mathematics, 2010, 78, 523-560.	0.7	5
175	On the long-time behaviour of a rigid body immersed in a viscous fluid. Applicable Analysis, 2011, 90, 59-66.	0.6	5
176	Mathematical analysis of fluids in motion: from well-posedness to model reduction. Revista Matematica Complutense, 2013, 26, 299-340.	0.7	5
177	Sensitivity analysis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>1</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>d</mml:mi></mml:math>steady forced scalar conservation laws. Journal of Differential Equations, 2013, 254, 3817-3834.	1.1	5
178	Mathematical analysis of variable density flows in porous media. Journal of Evolution Equations, 2016, 16, 1-19.	0.6	5
179	On a singular limit for stratified compressible fluids. Nonlinear Analysis: Real World Applications, 2018, 44, 334-346.	0.9	5
180	Globally bounded trajectories for the barotropic Navierâ€"Stokes system with general boundary conditions. Communications in Partial Differential Equations, 2020, 45, 1820-1832.	1.0	5

#	Article	IF	Citations
181	Time-periodic solutions to quasilinear telegraph equations with large data. Archive for Rational Mechanics and Analysis, 1990, 112, 45-62.	1.1	4
182	Asymptotic behaviour and attractors for degenerate parabolic equations on unbounded domains. Nonlinear Analysis: Theory, Methods & Applications, 1996, 26, 1535-1546.	0.6	4
183	Stabilization of a hybrid system with a nonlinear nonmonotone feedback. ESAIM - Control, Optimisation and Calculus of Variations, 1999, 4, 123-135.	0.7	4
184	On the domain dependence of solutions to the two-phase Stefan problem. Applications of Mathematics, 2000, 45, 131-144.	0.9	4
185	Long Time Behavior and Stabilization to Equilibria of Solutions to the Navierâ€"Stokesâ€"Fourier System Driven by Highly Oscillating Unbounded External Forces. Journal of Dynamics and Differential Equations, 2013, 25, 257-268.	1.0	4
186	On the density of â€œwildâ€• initial data for the compressible Euler system. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	0.9	4
187	Stability of planar rarefaction waves under general viscosity perturbation of the isentropic Euler system. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2021, 38, 1725-1737.	0.7	4
188	Ergodic theory for energetically open compressible fluid flows. Physica D: Nonlinear Phenomena, 2021, 423, 132914.	1.3	4
189	Global existence for a quasi-linear evolution equation with a non-convex energy. Transactions of the American Mathematical Society, 2002, 354, 1421-1434.	0.5	4
190	Forced Vibrations in One-Dimensional Nonlinear Viscoelasticity. Journal of Integral Equations and Applications, 1991, 3, .	0.2	4
191	Low Mach number asymptotics for reacting compressible fluid flows. Discrete and Continuous Dynamical Systems, 2010, 26, 455-480.	0.5	4
192	Weak solutions to a non-linear hyperbolic system arising in the theory of dielectric liquids. Mathematical Methods in the Applied Sciences, 1995, 18, 1041-1052.	1.2	3
193	Asymptotic analysis of the full Navier-Stokes-Fourier system: From compressible to incompressible fluid flows. Russian Mathematical Surveys, 2007, 62, 511-533.	0.2	3
194	Layered incompressible fluid flow equations in the limit of low Mach number and strong stratification. Physica D: Nonlinear Phenomena, 2008, 237, 1466-1487.	1.3	3
195	The effective boundary conditions for vector fields on domains with rough boundaries: Applications to fluid mechanics. Applications of Mathematics, 2011, 56, 39-49.	0.9	3
196	Travelling waves in a convectionâ€"diffusion equation. Journal of Differential Equations, 2012, 252, 2296-2310.	1.1	3
197	Robustness of one-dimensional viscous fluid motion under multidimensional perturbations. Journal of Differential Equations, 2015, 259, 7529-7539.	1.1	3
198	An anelastic approximation arising in astrophysics. Mathematische Annalen, 2017, 369, 1573-1597.	0.7	3

#	Article	IF	Citations
199	On a singular limit for the stratified compressible Euler system. Asymptotic Analysis, 2019, 114, 59-72.	0.2	3
200	Stochastic Navier-Stokes-Fourier equations. Indiana University Mathematics Journal, 2020, 69, 911-975.	0.4	3
201	Weakâ€“strong uniqueness property for models of compressible viscous fluids near vacuum*. Nonlinearity, 2021, 34, 6627-6650.	0.6	3
202	Strong asymptotic stability for a beam equation with weak damping. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1993, 123, 365-371.	0.8	2
203	Regularization and symmetry breaking for the thermistor problem with the Thomson effect. Meccanica, 1995, 30, 389-396.	1.2	2
204	Singular Kernels and Compactness in Nonlinear Conservation Laws. Journal of Differential Equations, 1998, 142, 291-304.	1.1	2
205	On compactness of the velocity field in the incompressible limit of the full Navierâ€“Stokesâ€“Fourier system on large domains. Mathematical Methods in the Applied Sciences, 2009, 32, 1269-1286.	1.2	2
206	Suitable weak solutions: from compressible viscous to incompressible inviscid fluid flows. Mathematische Annalen, 2013, 356, 683-702.	0.7	2
207	The Navierâ€“Stokesâ€“Fourier system: From weak solutions to numerical analysis. Analysis (Germany), 2015, 35, .	0.2	2
208	On the energy inequality for weak solutions to the Navierâ€“Stokes equations of compressible fluids on unbounded domains. Nonlinear Analysis: Theory, Methods & Applications, 2015, 128, 136-148.	0.6	2
209	On the low Mach number limit of compressible flows in exterior moving domains. Journal of Evolution Equations, 2016, 16, 705-722.	0.6	2
210	Concepts of Solutions in the Thermodynamics of Compressible Fluids. , 2018, , 1353-1379.		2
211	(S)-convergence and approximation of oscillatory solutions in fluid dynamics. Nonlinearity, 2021, 34, 2327-2349.	0.6	2
212	Compensated compactness and time-periodic solutions to non-autonomous quasilinear telegraph equations. Applications of Mathematics, 1990, 35, 192-208.	0.9	2
213	Mathematical theory of viscous fluids: Retrospective and future perspectives. Discrete and Continuous Dynamical Systems, 2010, 27, 533-555.	0.5	2
214	A stabilizing effect of a high-frequency driving force on the motion of a viscous, compressible, and heat conducting fluid. Discrete and Continuous Dynamical Systems - Series S, 2009, 2, 95-111.	0.6	2
215	On a Class of Physically Admissible Variational Solutions to the Navier-Stokes-Fourier System. Zeitschrift Fur Analysis Und Ihre Anwendung, 2005, 24, 75-101.	0.8	2
216	Asymptotic stability of solutions to the Navierâ€“Stokesâ€“Fourier system driven by inhomogeneous Dirichlet boundary conditions. Communications in Partial Differential Equations, 2022, 47, 1435-1456.	1.0	2

#	ARTICLE	IF	CITATIONS
217	Large amplitude solutions to some nonlinear boundary value problems via dual variational methods. Journal of Differential Equations, 1990, 88, 100-112.	1.1	1
218	A note on invariant regions in one-dimensional nonlinear viscoelasticity. Applicable Analysis, 1990, 35, 195-203.	0.6	1
219	Well posedness for the problem of adiabatic shearing of fluids with discontinuous initial data. Nonlinear Analysis: Theory, Methods & Applications, 1993, 20, 389-394.	0.6	1
220	The equations of electrohydrodynamics with highly irregular initial data. IMA Journal of Applied Mathematics, 1993, 51, 111-122.	0.8	1
221	Asymptotic spatial homogeneity of solutions to conservation laws with memory in several space dimensions. Mathematical Methods in the Applied Sciences, 1997, 20, 1459-1468.	1.2	1
222	Global-in-time solutions for the isothermal Matovichâ€“Pearson equations. Nonlinearity, 2011, 24, 277-292.	0.6	1
223	Continuity of Drag and Domain Stability in the Low Mach Number Limits. Journal of Mathematical Fluid Mechanics, 2012, 14, 731-750.	0.4	1
224	Mathematical Thermodynamics of Viscous Fluids. Lecture Notes in Mathematics, 2017, , 47-100.	0.1	1
225	Singular Limits for Models of Compressible, Viscous, Heat Conducting, and/or Rotating Fluids. , 2018, , 2771-2825.		1
226	Errata corrige: â€œExistence of solutions to some models of phase changes with microscopic movementsâ€• Mathematical Methods in the Applied Sciences, 2019, 42, 7537-7538.	1.2	1
227	Numerical Analysis of a Model of Two Phase Compressible Fluid Flow. Journal of Scientific Computing, 2021, 89, 1.	1.1	1
228	Invariant regions associated with quasilinear damped wave equations. Czechoslovak Mathematical Journal, 1990, 40, 612-618.	0.3	1
229	On the Motion of Several Rigid Bodies in a Viscous Multipolar Fluid. , 2007, , 291-305.		1
230	Small PÃ©clet Number Approximation as a Singular Limit of the Full Navier-Stokes-Fourier System with Radiation. , 2009, , 123-152.		1
231	Euler System with a Polytropic Equation of State as a Vanishing Viscosity Limit. Journal of Mathematical Fluid Mechanics, 2022, 24, .	0.4	1
232	A note on invariant regions in one- dimensional nonlinear viscoelasticity. Applicable Analysis, 1990, 35, 195-203.	0.6	0
233	Weakly damped quasilinear wave equation: existence of time-periodic solutions. Nonlinear Analysis: Theory, Methods & Applications, 1991, 17, 711-723.	0.6	0
234	Spatially localized free vibrations for a non-linear string model. Mathematical Methods in the Applied Sciences, 1992, 15, 331-343.	1.2	0

#	Article	IF	Citations
235	A Comparison Theorem for a Nonlinear system Arising in Porous Medium Combustion. Applicable Analysis, 1993, 49, 247-254.	0.6	0
236	On the Long-Time Behaviour of Compressible Fluid Flows Subjected to Highly Oscillating External Forces. Czechoslovak Mathematical Journal, 2003, 53, 757-767.	0.3	0
237	Long time behavior and attractors for energetically insulated fluid systems. Discrete and Continuous Dynamical Systems, 2010, 27, 1587-1609.	0.5	0
238	Front propagation in nonlinear parabolic equations. Journal of the London Mathematical Society, 2014, 90, 551-572.	0.5	0
239	Mathematical Model. Advances in Mathematical Fluid Mechanics, 2016, , 25-30.	0.1	0
240	On Global Well/Ill-Posedness of the Euler-Poisson System. Advances in Mathematical Fluid Mechanics, 2016, , 215-231.	0.1	0
241	On the Motion of Chemically Reacting Fluids Through Porous Medium. Springer Proceedings in Mathematics and Statistics, 2017, , 139-152.	0.1	0
242	B. Bibliographical remarks. , 2018, , 317-326.		0
243	On Strong Continuity of Weak Solutions to the Compressible Euler System. Journal of Nonlinear Science, 2021, 31, 1.	1.0	0
244	On the motion of rigid bodies in a perfect fluid. Nonlinear Differential Equations and Applications, 2021, 28, 1.	0.4	0
245	On the Motion of a Compressible Viscous Fluid Driven by Time Periodic Inflow/Outflow Boundary Conditions. Journal of Dynamics and Differential Equations, 2024, 36, 105-126.	1.0	0
246	Some remarks on steady solutions to the Euler system in Rd. Applied Mathematics Letters, 2021, 116, 107031.	1.5	0
247	Homogenization of a non-homogeneous heat conducting fluid. Asymptotic Analysis, 2021, 125, 327-346.	0.2	0
248	Scaling and singular limits in the equations of continuum fluid mechanics. Methods and Applications of Analysis, 2013, 20, 115-140.	0.1	0
249	New developments in mathematical theory of fluid mechanics. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, .	0.6	0
250	Domain sensitivity in singular limits of compressible viscous fluids. SÃ©minaire Laurent Schwartz â€” EDP Et Applications, 0, , 1-16.	0.0	0
251	Weak Sequential Stability. Advances in Mathematical Fluid Mechanics, 2016, , 55-77.	0.1	0
252	Consistency. Advances in Mathematical Fluid Mechanics, 2016, , 111-133.	0.1	0

#	Article	IF	Citations
253	A Priori Bounds. Advances in Mathematical Fluid Mechanics, 2016, , 39-47.	0.1	0
254	Weak Solutions. Advances in Mathematical Fluid Mechanics, 2016, , 31-38.	0.1	0
255	Concepts of Solutions in the Thermodynamics of Compressible Fluids. , 2016, , 1-27.		0
256	Weak Formulation Revisited. Advances in Mathematical Fluid Mechanics, 2016, , 49-53.	0.1	0
257	Strong Convergence of the Approximate Densities. Advances in Mathematical Fluid Mechanics, 2016, , 165-176.	0.1	0
258	Weak Solutions with Artificial Pressure. Advances in Mathematical Fluid Mechanics, 2016, , 157-164.	0.1	0
259	Numerical Method. Advances in Mathematical Fluid Mechanics, 2016, , 81-102.	0.1	0
260	Stability of the Numerical Method. Advances in Mathematical Fluid Mechanics, 2016, , 103-109.	0.1	0
261	Concluding Remarks and Suggestions forÂFurther Reading. Advances in Mathematical Fluid Mechanics, 2016, , 177-178.	0.1	0
262	Preliminaries, Notation, and Spaces of Functions. Advances in Mathematical Fluid Mechanics, 2016, , 1-22.	0.1	0
263	Singular Limits for Models of Compressible, Viscous, Heat Conducting, and/or Rotating Fluids. , 2016, , 1-55.		0
264	Bibliographical Remarks. Advances in Mathematical Fluid Mechanics, 2017, , 501-505.	0.1	0
265	Problems on Large Domains. Advances in Mathematical Fluid Mechanics, 2017, , 313-367.	0.1	0
266	Vanishing Dissipation Limits. Advances in Mathematical Fluid Mechanics, 2017, , 369-408.	0.1	0
267	Stratified Fluids. Advances in Mathematical Fluid Mechanics, 2017, , 221-262.	0.1	0
268	Interaction of Acoustic Waves with Boundary. Advances in Mathematical Fluid Mechanics, 2017, , 263-312.	0.1	0
269	Existence Theory. Advances in Mathematical Fluid Mechanics, 2017, , 49-144.	0.1	0
270	Fluid Flow Modeling. Advances in Mathematical Fluid Mechanics, 2017, , 1-19.	0.1	0

#	Article	IF	Citations
271	Singular Limits: Low Stratification. Advances in Mathematical Fluid Mechanics, 2017, , 167-219.	0.1	0
272	Acoustic Analogies. Advances in Mathematical Fluid Mechanics, 2017, , 409-428.	0.1	0
273	Weak Solutions, A Priori Estimates. Advances in Mathematical Fluid Mechanics, 2017, , 21-47.	0.1	0
274	Asymptotic Analysis: An Introduction. Advances in Mathematical Fluid Mechanics, 2017, , 145-165.	0.1	0
275	Stationary solutions in thermodynamics of stochastically forced fluids. Mathematische Annalen, 0, , 1.	0.7	0