Ewelina Zatorska

List of Publications by Year
in descending order

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38	537	623734	713466
papers	citations	14 h-index	21 g-index

38	38	38	153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-velocity hydrodynamics in fluid mechanics: Part II Existence of global Î²-entropy solutions to the compressible Navierâ€“Stokes systems with degenerate viscosities. Journal Des Mathematiques Pures Et Appliquees, 2015, 104, 801-836.	1.6	38
2	Heat-Conducting, Compressible Mixtures with Multicomponent Diffusion: Construction of a Weak Solution. SIAM Journal on Mathematical Analysis, 2015, 47, 3747-3797.	1.9	33
3	On the pressureless damped Eulerâ€“Poisson equations with quadratic confinement: Critical thresholds and large-time behavior. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2311-2340.	3.3	33
4	On the flow of chemically reacting gaseous mixture. Journal of Differential Equations, 2012, 253, 3471-3500.	2.2	32
5	Existence of weak solutions for compressible Navierâ€“Stokes equations with entropy transport. Journal of Differential Equations, 2016, 261, 4448-4485.	2.2	30
6	Finite-Energy Solutions for Compressible Two-Fluid Stokes System. Archive for Rational Mechanics and Analysis, 2019, 232, 987-1029.	2.4	30
7	Free/Congested Two-Phase Model from Weak Solutions to Multi-Dimensional Compressible Navier-Stokes Equations. Communications in Partial Differential Equations, 2015, 40, 1558-1589.	2.2	29
8	On singular limits arising in the scale analysis of stratified fluid flows. Mathematical Models and Methods in Applied Sciences, 2016, 26, 419-443.	3.3	22
9	Two-velocity hydrodynamics in fluid mechanics: Part I Well posedness for zero Mach number systems. Journal Des Mathematiques Pures Et Appliquees, 2015, 104, 762-800.	1.6	20
10	Approximate solutions to a model of two-component reactive flow. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 1079-1099.	1.1	20
11	On the steady flow of a multicomponent, compressible, chemically reacting gas. Nonlinearity, 2011, 24, 3267-3278.	1.4	18
12	Singular limit of a Navierâ€“Stokes system leading to a free/congested zones two-phase model. Comptes Rendus Mathematique, 2014, 352, 685-690.	0.3	17
13	Chemically reacting mixtures in terms of degenerated parabolic setting. Journal of Mathematical Physics, 2013, 54, 071501.	1.1	16
14	Kinetic Theory of Particle Interactions Mediated by Dynamical Networks. Multiscale Modeling and Simulation, 2017, 15, 1294-1323.	1.6	16
15	On the large time behavior of the compressible gasâ€“liquid drift-flux model with slip. Mathematical Models and Methods in Applied Sciences, 2015, 25, 2175-2215.	3.3	15
16	On the steady flow of reactive gaseous mixture. Analysis (Germany), 2015, 35, .	0.4	14
17	Incompressible limit of the Navierâ€”Stokes model with a growth term. Nonlinear Analysis: Theory, Methods & Applications, 2017, 163, 34-59.	1.1	14
18	On Strong Dynamics of Compressible Two-Component Mixture Flow. SIAM Journal on Mathematical Analysis, 2019, 51, 2793-2849.	1.9	14

#	Article	IF	Citations
19	Singular Cuckerâ€“Smale Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2019, , 201-243.	0.6	14
20	Mixtures: Sequential Stability of Variational Entropy Solutions. Journal of Mathematical Fluid Mechanics, 2015, 17, 437-461.	1.0	12
21	Particle Interactions Mediated by Dynamical Networks: Assessment of Macroscopic Descriptions. Journal of Nonlinear Science, 2018, 28, 235-268.	2.1	12
22	Finite volume approximations of the Euler system with variable congestion. Computers and Fluids, 2018, 169, 23-39.	2.5	11
23	On the isothermal compressible multi-component mixture flow: The local existence and maximal Lpâ˜Lq regularity of solutions. Nonlinear Analysis: Theory, Methods & Applications, 2019, 189, 111571.	1.1	11
24	On the maximal L-L regularity of solutions to a general linear parabolic system. Journal of Differential Equations, 2020, 268, 3332-3369.	2.2	9
25	Fast Non-mean-field Networks: Uniform in Time Averaging. SIAM Journal on Mathematical Analysis, 2021, 53, 937-972.	1.9	8
26	Modelling pattern formation through differential repulsion. Networks and Heterogeneous Media, 2020, 15, 307-352.	1.1	8
27	Transport of congestion in two-phase compressible/incompressible flows. Nonlinear Analysis: Real World Applications, 2018, 42, 485-510.	1.7	7
28	Existence of Stationary Weak Solutions for Compressible Heat Conducting Flows. , 2018, , 2595-2662.		7
29	On long-time asymptotics for viscous hydrodynamic models of collective behavior with damping and nonlocal interactions. Mathematical Models and Methods in Applied Sciences, 2019, 29, 31-63.	3.3	7
30	Large time behavior for a compressible two-fluid model with algebraic pressure closure and large initial data. Nonlinearity, 2020, 33, 4075-4094.	1.4	6
31	Analysis of semidiscretization of the compressible Navierâ€“Stokes equations. Journal of Mathematical Analysis and Applications, 2012, 386, 559-580.	1.0	3
32	On weak solutions to the compressible inviscid two-fluid model. Journal of Differential Equations, 2021, 299, 33-50.	2.2	3
33	Pressureless Euler with nonlocal interactions as a singular limit of degenerate Navier-Stokes system. Journal of Mathematical Analysis and Applications, 2020, 492, 124400.	1.0	2
34	From the highly compressible Navier-Stokes equations to the porous medium equation -- rate of convergence. Discrete and Continuous Dynamical Systems, 2015, 36, 3107-3123.	0.9	2
35	Maximal Regularity for Compressible Two-Fluid System. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	1.0	2
36	Existence of Stationary Weak Solutions for the Heat Conducting Flows. , 2016, , 1-68.		1

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37	Multicomponent mixture model: the issue of existence via time discretization. Communications in Mathematical Sciences, 2015, 13, 1975-2003.	1.0	1
38	Analysis of nonlocal model of compressible fluid in 1-D. Mathematical Methods in the Applied Sciences, 2011, 34, 198-212.	2.3	0