Massimiliano Daniele Rosini

List of Publications by Year
in descending order

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49	836	566801 15	500791 28
papers	citations	h-index	g-index

56	56	56	283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropy solutions for a two-phase transition model for vehicular traffic with metastable phase and time depending point constraint on the density flow. Nonlinear Differential Equations and Applications, 2021, 28, 1.	0.4	2
2	Lack of BV bounds for approximate solutions to a twoâ€phase transition model arising from vehicular traffic. Mathematical Methods in the Applied Sciences, 2020, 43, 10381-10390.	1.2	1
3	Microscopic Selection of Solutions to Scalar Conservation Laws with Discontinuous Flux in the Context of Vehicular Traffic. Springer Proceedings in Mathematics and Statistics, 2020, , 113-135.	0.1	4
4	Representation of capacity drop at a road merge via point constraints in a first order traffic model. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1-34.	0.8	20
5	Coherence and chattering of a oneâ€way valve. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800250.	0.9	4
6	Coherence of Coupling Riemann Solvers for Gas Flows Through Flux-Maximizing Valves. SIAM Journal on Applied Mathematics, 2019, 79, 2593-2614.	0.8	1
7	Analysis and approximation of one-dimensional scalar conservation laws with general point constraints on the flux. Journal Des Mathematiques Pures Et Appliquees, 2018, 116, 309-346.	0.8	11
8	Coupling conditions for isothermal gas flow and applications to valves. Nonlinear Analysis: Real World Applications, 2018, 40, 403-427.	0.9	5
9	One-Dimensional Conservation Laws with Nonlocal Point Constraints on the Flux. Modeling and Simulation in Science, Engineering and Technology, 2018, , 103-135.	0.4	8
10	An existence result for a constrained two-phase transition model with metastable phase for vehicular traffic. Nonlinear Differential Equations and Applications, 2018, 25, 1.	0.4	4
11	Existence of BV solutions for a non-conservative constrained Awâ€“Rascleâ€“Zhang model for vehicular traffic. Journal of Mathematical Analysis and Applications, 2018, 467, 45-66.	0.5	9
12	The Riemann Problem for a General Phase Transition Model on Networks. Springer Proceedings in Mathematics and Statistics, 2018, , 445-457.	0.1	0
13	A Deterministic Particle Approximation for Non-linear Conservation Laws. Springer Proceedings in Mathematics and Statistics, 2018, , 487-499.	0.1	2
14	Follow-the-Leader Approximations of Macroscopic Models for Vehicular and Pedestrian Flows. Modeling and Simulation in Science, Engineering and Technology, 2017, , 333-378.	0.4	9
15	General phase transition models for vehicular traffic with point constraints on the flow. Mathematical Methods in the Applied Sciences, 2017, 40, 6623-6641.	1.2	10
16	Deterministic particle approximation of scalar conservation laws. Bolletino Dell Unione Matematica Italiana, 2017, 10, 487-501.	0.6	15
17	Deterministic particle approximation of the Hughes model in one space dimension. Kinetic and Related Models, 2017, 10, 215-237.	0.5	19
18	Many particle approximation of the Aw-Rascle-Zhang second order model for vehicular traffic. Mathematical Biosciences and Engineering, 2017, 14, 127-141.	1.0	27

#	Article	IF	Citations
19	A macroscopic traffic model with phase transitions and local point constraints on the flow. Networks and Heterogeneous Media, 2017, 12, 297-317.	0.5	10
20	Traveling waves for degenerate diffusive equations on networks. Networks and Heterogeneous Media, 2017, 12, 339-370.	0.5	10
21	Qualitative behaviour and numerical approximation of solutions to conservation laws with non-local point constraints on the flux and modeling of crowd dynamics at the bottlenecks. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 1269-1287.	0.8	20
22	Entropy solutions for a traffic model with phase transitions. Nonlinear Analysis: Theory, Methods & Applications, 2016, 141, 167-190.	0.6	8
23	A second-order model for vehicular traffics with local point constraints on the flow. Mathematical Models and Methods in Applied Sciences, 2016, 26, 751-802.	1.7	29
24	Solutions of the Aw-Rascle-Zhang system with point constraints. Networks and Heterogeneous Media, 2016, 11, 29-47.	0.5	14
25	Rigorous Derivation of Nonlinear Scalar Conservation Laws from Follow-the-Leader Type Models via Many Particle Limit. Archive for Rational Mechanics and Analysis, 2015, 217, 831-871.	1.1	59
26	Riemann problems with non–local point constraints and capacity drop. Mathematical Biosciences and Engineering, 2015, 12, 259-278.	1.0	12
27	Crowd dynamics and conservation laws with nonlocal constraints and capacity drop. Mathematical Models and Methods in Applied Sciences, 2014, 24, 2685-2722.	1.7	28
28	Existence results for Hughes' model for pedestrian flows. Journal of Mathematical Analysis and Applications, 2014, 420, 387-406.	0.5	21
29	On entropy weak solutions of Hughesâ€™ model for pedestrian motion. Zeitschrift Fur Angewandte Mathematik Und Physik, 2013, 64, 223-251.	0.7	23
30	One-Dimensional Scalar Conservation Laws. Understanding Complex Systems, 2013, , 23-42.	0.3	0
31	One-Dimensional Systems of Balance Laws (Weakly Coupled). Understanding Complex Systems, 2013, , 111-120.	0.3	0
32	Generalizations of Equilibrium Traffic Models. Understanding Complex Systems, 2013, , 149-160.	0.3	0
33	Numerical Applications. Understanding Complex Systems, 2013, , 167-173.	0.3	1
34	General Concepts. Understanding Complex Systems, 2013, , 193-201.	0.3	0
35	The CR Model. Understanding Complex Systems, 2013, , 203-226.	0.3	0
36	Macroscopic Models for Vehicular Flows and Crowd Dynamics: Theory and Applications. Understanding Complex Systems, 2013, , .	0.3	47

#	Article	IF	Citations
37	On the modelling and management of traffic. ESAIM: Mathematical Modelling and Numerical Analysis, 2011, 45, 853-872.	0.8	39
38	Stability of Surface Rayleigh Waves in an Elastic Halfâ€Space. Studies in Applied Mathematics, 2010, 124, 179-211.	1.1	1
39	Weakly nonlinear surface waves and subsonic phase boundaries. Computers and Mathematics With Applications, 2009, 57, 1463-1484.	1.4	10
40	Existence of nonclassical solutions in a Pedestrian flow model. Nonlinear Analysis: Real World Applications, 2009, 10, 2716-2728.	0.9	42
41	Nonclassical interactions portrait in a macroscopic pedestrian flow model. Journal of Differential Equations, 2009, 246, 408-427.	1.1	15
42	Stability estimates on general scalar balance laws. Comptes Rendus Mathematique, 2009, 347, 45-48.	0.1	9
43	Conservation Laws with Unilateral Constraints in Traffic Modeling. , 2009, , .		12
44	Stability and total variation estimates on general scalar balance laws. Communications in Mathematical Sciences, 2009, 7, 37-65.	0.5	35
45	Non local balance laws in traffic models and crystal growth. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 449-461.	0.9	12
46	A phase analysis of transonic solutions for the hydrodynamic semiconductor model. Quarterly of Applied Mathematics, 2005, 63, 251-268.	0.5	29
47	Well posedness of balance laws with boundary. Journal of Mathematical Analysis and Applications, 2005, 311, 683-702.	0.5	15
48	Pedestrian flows and non-classical shocks. Mathematical Methods in the Applied Sciences, 2005, 28, 1553-1567.	1.2	168
49	Stability of transonic strong shock waves for the one-dimensional hydrodynamic model for semiconductors. Journal of Differential Equations, 2004, 199, 326-351.	1.1	6