

# Massimiliano Daniele Rosini

## List of Publications by Year in descending order

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49  
papers

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citations

566801

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h-index

500791

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g-index

56  
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56  
docs citations

56  
times ranked

283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedestrian flows and non-classical shocks. <i>Mathematical Methods in the Applied Sciences</i> , 2005, 28, 1553-1567.	1.2	168
2	Rigorous Derivation of Nonlinear Scalar Conservation Laws from Follow-the-Leader Type Models via Many Particle Limit. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 217, 831-871.	1.1	59
3	Macroscopic Models for Vehicular Flows and Crowd Dynamics: Theory and Applications. <i>Understanding Complex Systems</i> , 2013, , .	0.3	47
4	Existence of nonclassical solutions in a Pedestrian flow model. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 2716-2728.	0.9	42
5	On the modelling and management of traffic. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011, 45, 853-872.	0.8	39
6	Stability and total variation estimates on general scalar balance laws. <i>Communications in Mathematical Sciences</i> , 2009, 7, 37-65.	0.5	35
7	A phase analysis of transonic solutions for the hydrodynamic semiconductor model. <i>Quarterly of Applied Mathematics</i> , 2005, 63, 251-268.	0.5	29
8	A second-order model for vehicular traffics with local point constraints on the flow. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 751-802.	1.7	29
9	Crowd dynamics and conservation laws with nonlocal constraints and capacity drop. <i>Mathematical Models and Methods in Applied Sciences</i> , 2014, 24, 2685-2722.	1.7	28
10	Many particle approximation of the Aw-Rascle-Zhang second order model for vehicular traffic. <i>Mathematical Biosciences and Engineering</i> , 2017, 14, 127-141.	1.0	27
11	On entropy weak solutions of Hughes' model for pedestrian motion. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2013, 64, 223-251.	0.7	23
12	Existence results for Hughes' model for pedestrian flows. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 420, 387-406.	0.5	21
13	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. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016, 50, 1269-1287.	0.8	20
14	Representation of capacity drop at a road merge via point constraints in a first order traffic model. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2019, 53, 1-34.	0.8	20
15	Deterministic particle approximation of the Hughes model in one space dimension. <i>Kinetic and Related Models</i> , 2017, 10, 215-237.	0.5	19
16	Well posedness of balance laws with boundary. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 311, 683-702.	0.5	15
17	Nonclassical interactions portrait in a macroscopic pedestrian flow model. <i>Journal of Differential Equations</i> , 2009, 246, 408-427.	1.1	15
18	Deterministic particle approximation of scalar conservation laws. <i>Bolletino Dell Unione Matematica Italiana</i> , 2017, 10, 487-501.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Solutions of the Aw-Rascle-Zhang system with point constraints. <i>Networks and Heterogeneous Media</i> , 2016, 11, 29-47.	0.5	14
20	Non local balance laws in traffic models and crystal growth. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2007, 87, 449-461.	0.9	12
21	Conservation Laws with Unilateral Constraints in Traffic Modeling. , 2009, , .		12
22	Riemann problems with non-local point constraints and capacity drop. <i>Mathematical Biosciences and Engineering</i> , 2015, 12, 259-278.	1.0	12
23	Analysis and approximation of one-dimensional scalar conservation laws with general point constraints on the flux. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 116, 309-346.	0.8	11
24	Weakly nonlinear surface waves and subsonic phase boundaries. <i>Computers and Mathematics With Applications</i> , 2009, 57, 1463-1484.	1.4	10
25	General phase transition models for vehicular traffic with point constraints on the flow. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 6623-6641.	1.2	10
26	A macroscopic traffic model with phase transitions and local point constraints on the flow. <i>Networks and Heterogeneous Media</i> , 2017, 12, 297-317.	0.5	10
27	Traveling waves for degenerate diffusive equations on networks. <i>Networks and Heterogeneous Media</i> , 2017, 12, 339-370.	0.5	10
28	Stability estimates on general scalar balance laws. <i>Comptes Rendus Mathematique</i> , 2009, 347, 45-48.	0.1	9
29	Follow-the-Leader Approximations of Macroscopic Models for Vehicular and Pedestrian Flows. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2017, , 333-378.	0.4	9
30	Existence of BV solutions for a non-conservative constrained Aw-Rascle-Zhang model for vehicular traffic. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 467, 45-66.	0.5	9
31	Entropy solutions for a traffic model with phase transitions. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2016, 141, 167-190.	0.6	8
32	One-Dimensional Conservation Laws with Nonlocal Point Constraints on the Flux. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018, , 103-135.	0.4	8
33	Stability of transonic strong shock waves for the one-dimensional hydrodynamic model for semiconductors. <i>Journal of Differential Equations</i> , 2004, 199, 326-351.	1.1	6
34	Coupling conditions for isothermal gas flow and applications to valves. <i>Nonlinear Analysis: Real World Applications</i> , 2018, 40, 403-427.	0.9	5
35	An existence result for a constrained two-phase transition model with metastable phase for vehicular traffic. <i>Nonlinear Differential Equations and Applications</i> , 2018, 25, 1.	0.4	4
36	Coherence and chattering of a one-way valve. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019, 99, e201800250.	0.9	4

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	A Deterministic Particle Approximation for Non-linear Conservation Laws. Springer Proceedings in Mathematics and Statistics, 2018, , 487-499.	0.1	2
40	Stability of Surface Rayleigh Waves in an Elastic Half-Space. Studies in Applied Mathematics, 2010, 124, 179-211.	1.1	1
41	Numerical Applications. Understanding Complex Systems, 2013, , 167-173.	0.3	1
42	Coherence of Coupling Riemann Solvers for Gas Flows Through Flux-Maximizing Valves. SIAM Journal on Applied Mathematics, 2019, 79, 2593-2614.	0.8	1
43	Lack of BV bounds for approximate solutions to a two-phase transition model arising from vehicular traffic. Mathematical Methods in the Applied Sciences, 2020, 43, 10381-10390.	1.2	1
44	One-Dimensional Scalar Conservation Laws. Understanding Complex Systems, 2013, , 23-42.	0.3	0
45	One-Dimensional Systems of Balance Laws (Weakly Coupled). Understanding Complex Systems, 2013, , 111-120.	0.3	0
46	Generalizations of Equilibrium Traffic Models. Understanding Complex Systems, 2013, , 149-160.	0.3	0
47	General Concepts. Understanding Complex Systems, 2013, , 193-201.	0.3	0
48	The CR Model. Understanding Complex Systems, 2013, , 203-226.	0.3	0
49	The Riemann Problem for a General Phase Transition Model on Networks. Springer Proceedings in Mathematics and Statistics, 2018, , 445-457.	0.1	0