Gabriella Bretti

List of Publications by Year
in descending order

31	416	11	20
papers	citations	h-index	g-index

840776

752698

32	32	32	212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameter estimation techniques for a chemotaxis model inspired by Cancer-on-Chip (COC) experiments. International Journal of Non-Linear Mechanics, 2022, 140, 103895.	2.6	7
2	A moving boundary problem for reaction and diffusion processes in concrete: Carbonation advancement and carbonation shrinkage. Discrete and Continuous Dynamical Systems - Series S, 2022, 15, 2033.	1.1	4
3	An Agent-Based Interpretation of Leukocyte Chemotaxis in Cancer-on-Chip Experiments. Mathematics, 2022, 10, 1338.	2.2	2
4	${\mathscr{L}}$-Splines as Diffusive Limits of Dissipative Kinetic Models. Vietnam Journal of Mathematics, 2021, 49, 651-671.	0.8	2
5	Mass-Preserving Approximation of a Chemotaxis Multi-Domain Transmission Model for Microfluidic Chips. Mathematics, 2021, 9, 688.	2.2	8
6	Estimation Algorithm for a Hybrid PDE–ODE Model Inspired by Immunocompetent Cancer-on-Chip Experiment. Axioms, 2021, 10, 243.	1.9	10
7	Diffusive limit of a two-dimensional well-balanced approximation to a kinetic model of chemotaxis. SN Partial Differential Equations and Applications, 2021, 2, .	0.6	1
8	Differential Models, Numerical Simulations and Applications. Axioms, 2021, 10, 260.	1.9	1
9	Modelling the Effects of Protective Treatments in Porous Materials. Springer INdAM Series, 2021, , 73-83.	0.5	2
10	A mathematical, experimental study on iron rings formation in porous stones. Journal of Cultural Heritage, 2019, 38, 158-166.	3.3	7
11	A new set of Sheffer–Bell polynomials and logarithmic numbers. Georgian Mathematical Journal, 2019, 26, 367-379.	0.6	4
12	Numerical approximation of nonhomogeneous boundary conditions on networks for a hyperbolic system of chemotaxis modeling the Physarum dynamics. Journal of Computational Methods in Sciences and Engineering, 2018, 18, 85-115.	0.2	8
13	Two algorithms for a fully coupled and consistently macroscopic PDE-ODEsystem modeling a moving bottleneck on a road. Mathematics in Engineering, 2018, 1, 55-83.	0.9	4
14	Mathematical modelling of experimental data for crystallization inhibitors. Applied Mathematical Modelling, 2017, 48, 21-38.	4.2	8
15	An easy-to-use algorithm for simulating traffic flow on networks: Numerical experiments. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 379-394.	1.1	8
16	A Numerical Scheme for a Hyperbolic Relaxation Model on Networks. , 2011, , .		1
17	An Iterative Algorithm with Joint Sparsity Constraints for Magnetic Tomography. Lecture Notes in Computer Science, 2010, , 316-328.	1.3	3
18	Numerical simulations of traffic data via fluid dynamic approach. Applied Mathematics and Computation, 2009, 210, 441-454.	2.2	11

#	Article	IF	Citations
19	A Tracking Algorithm for Car Paths on Road Networks. SIAM Journal on Applied Dynamical Systems, 2008, 7, 510-531.	1.6	28
20	Numerical schemes for the Barenblatt model of non-equilibrium two-phase flow in porous media. Quarterly of Applied Mathematics, 2008, 66, 201-231.	0.7	2
21	Numerical algorithms for simulations of a traffic model on road networks. Journal of Computational and Applied Mathematics, 2007, 210, 71-77.	2.0	12
22	Laguerre-type special functions and population dynamics. Applied Mathematics and Computation, 2007, 187, 89-100.	2.2	13
23	A Fluid-Dynamic Traffic Model on Road Networks. Archives of Computational Methods in Engineering, 2007, 14, 139-172.	10.2	28
24	A continuum-discrete model for supply chains dynamics. Networks and Heterogeneous Media, 2007, 2, 661-694.	1.1	24
25	Fast algorithms for the approximation of a traffic flow model on networks. Discrete and Continuous Dynamical Systems - Series B, 2006, 6, 427-448.	0.9	16
26	Numerical approximations of a traffic flow model on networks. Networks and Heterogeneous Media, 2006, 1, 57-84.	1.1	63
27	Generalizations of the Bernoulli and Appell polynomials. Abstract and Applied Analysis, 2004, 2004, 613-623.	0.7	27
28	MULTIDIMENSIONAL EXTENSIONS OF THE BERNOULLI AND APPELL POLYNOMIALS. Taiwanese Journal of Mathematics, 2004, 8, 415.	0.4	58
29	Laguerre-type exponentials and generalized Appell polynomials. Computers and Mathematics With Applications, 2004, 48, 833-839.	2.7	47
30	Particular Solutions for a Class of ODE Related to the L-Exponential Functions. Georgian Mathematical Journal, 2004, 11, 59-67.	0.6	5
31	Diffusive limits of 2D well-balanced schemes\for kinetic models of neutron transport. ESAIM: Mathematical Modelling and Numerical Analysis, 0, , .	1.9	2