

Gabriella Bretti

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

416
citations

840776

11
h-index

752698

20
g-index

32
all docs

32
docs citations

32
times ranked

212
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical approximations of a traffic flow model on networks. <i>Networks and Heterogeneous Media</i> , 2006, 1, 57-84.	1.1	63
2	MULTIDIMENSIONAL EXTENSIONS OF THE BERNOULLI AND APPELL POLYNOMIALS. <i>Taiwanese Journal of Mathematics</i> , 2004, 8, 415.	0.4	58
3	Laguerre-type exponentials and generalized Appell polynomials. <i>Computers and Mathematics With Applications</i> , 2004, 48, 833-839.	2.7	47
4	A Fluid-Dynamic Traffic Model on Road Networks. <i>Archives of Computational Methods in Engineering</i> , 2007, 14, 139-172.	10.2	28
5	A Tracking Algorithm for Car Paths on Road Networks. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 510-531.	1.6	28
6	Generalizations of the Bernoulli and Appell polynomials. <i>Abstract and Applied Analysis</i> , 2004, 2004, 613-623.	0.7	27
7	A continuum-discrete model for supply chains dynamics. <i>Networks and Heterogeneous Media</i> , 2007, 2, 661-694.	1.1	24
8	Fast algorithms for the approximation of a traffic flow model on networks. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2006, 6, 427-448.	0.9	16
9	Laguerre-type special functions and population dynamics. <i>Applied Mathematics and Computation</i> , 2007, 187, 89-100.	2.2	13
10	Numerical algorithms for simulations of a traffic model on road networks. <i>Journal of Computational and Applied Mathematics</i> , 2007, 210, 71-77.	2.0	12
11	Numerical simulations of traffic data via fluid dynamic approach. <i>Applied Mathematics and Computation</i> , 2009, 210, 441-454.	2.2	11
12	Estimation Algorithm for a Hybrid PDE–ODE Model Inspired by Immunocompetent Cancer-on-Chip Experiment. <i>Axioms</i> , 2021, 10, 243.	1.9	10
13	Mathematical modelling of experimental data for crystallization inhibitors. <i>Applied Mathematical Modelling</i> , 2017, 48, 21-38.	4.2	8
14	Numerical approximation of nonhomogeneous boundary conditions on networks for a hyperbolic system of chemotaxis modeling the Physarum dynamics. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2018, 18, 85-115.	0.2	8
15	Mass-Preserving Approximation of a Chemotaxis Multi-Domain Transmission Model for Microfluidic Chips. <i>Mathematics</i> , 2021, 9, 688.	2.2	8
16	An easy-to-use algorithm for simulating traffic flow on networks: Numerical experiments. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2014, 7, 379-394.	1.1	8
17	A mathematical, experimental study on iron rings formation in porous stones. <i>Journal of Cultural Heritage</i> , 2019, 38, 158-166.	3.3	7
18	Parameter estimation techniques for a chemotaxis model inspired by Cancer-on-Chip (COC) experiments. <i>International Journal of Non-Linear Mechanics</i> , 2022, 140, 103895.	2.6	7

#	ARTICLE	IF	CITATIONS
19	Particular Solutions for a Class of ODE Related to the L-Exponential Functions. Georgian Mathematical Journal, 2004, 11, 59-67.	0.6	5
20	A new set of Sheffer's Bell polynomials and logarithmic numbers. Georgian Mathematical Journal, 2019, 26, 367-379.	0.6	4
21	Two algorithms for a fully coupled and consistently macroscopic PDE-ODE system modeling a moving bottleneck on a road. Mathematics in Engineering, 2018, 1, 55-83.	0.9	4
22	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
23	An Iterative Algorithm with Joint Sparsity Constraints for Magnetic Tomography. Lecture Notes in Computer Science, 2010, , 316-328.	1.3	3
24	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
25	\mathcal{L} -Splines as Diffusive Limits of Dissipative Kinetic Models. Vietnam Journal of Mathematics, 2021, 49, 651-671.	0.8	2
26	Modelling the Effects of Protective Treatments in Porous Materials. Springer INdAM Series, 2021, , 73-83.	0.5	2
27	Diffusive limits of 2D well-balanced schemes for kinetic models of neutron transport. ESAIM: Mathematical Modelling and Numerical Analysis, 0, , .	1.9	2
28	An Agent-Based Interpretation of Leukocyte Chemotaxis in Cancer-on-Chip Experiments. Mathematics, 2022, 10, 1338.	2.2	2
29	A Numerical Scheme for a Hyperbolic Relaxation Model on Networks. , 2011, , .		1
30	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
31	Differential Models, Numerical Simulations and Applications. Axioms, 2021, 10, 260.	1.9	1