Mihaela Negreanu

List of Publications by Year
in descending order

46 papers	557 citations	759233 12 h-index	677142 22 g-index
47 all docs	47 docs citations	47 times ranked	148 citing authors

#	Article	IF	Citations
1	Asymptotic stability of a two species chemotaxis system with non-diffusive chemoattractant. Journal of Differential Equations, 2015, 258, 1592-1617.	2.2	73
2	On a Two Species Chemotaxis Model with Slow Chemical Diffusion. SIAM Journal on Mathematical Analysis, 2014, 46, 3761-3781.	1.9	60
3	Uniform boundary controllability of a discrete 1-D wave equation. Systems and Control Letters, 2003, 48, 261-279.	2.3	52
4	Convergence of a multigrid method for the controllability of a 1-d wave equation. Comptes Rendus Mathematique, 2004, 338, 413-418.	0.3	52
5	On a competitive system under chemotactic effects with non-local terms. Nonlinearity, 2013, 26, 1083-1103.	1.4	35
6	On a parabolic–elliptic system with gradient dependent chemotactic coefficient. Journal of Differential Equations, 2018, 265, 733-751.	2.2	28
7	On the numerical solution to a parabolic-elliptic system with chemotactic and periodic terms using Generalized Finite Differences. Engineering Analysis With Boundary Elements, 2020, 113, 181-190.	3.7	23
8	Discrete Ingham Inequalities and Applications. SIAM Journal on Numerical Analysis, 2006, 44, 412-448.	2.3	20
9	Global existence and asymptotic behavior of solutions to a Predator–Prey chemotaxis system with two chemicals. Journal of Mathematical Analysis and Applications, 2019, 474, 1116-1131.	1.0	17
10	On a comparison method to reaction-diffusion systems and its applications to chemotaxis. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 2669-2688.	0.9	16
11	Solving a chemotaxis–haptotaxis system in 2D using Generalized Finite Difference Method. Computers and Mathematics With Applications, 2020, 80, 762-777.	2.7	15
12	On a parabolic–elliptic chemotactic system with non-constant chemotactic sensitivity. Nonlinear Analysis: Theory, Methods & Applications, 2013, 80, 1-13.	1.1	14
13	Discrete Ingham inequalities and applications. Comptes Rendus Mathematique, 2004, 338, 281-286.	0.3	12
14	Constructing solutions for a kinetic model of angiogenesis in annular domains. Applied Mathematical Modelling, 2017, 45, 303-322.	4.2	12
15	Asymptotic behavior and global existence of solutions to a two-species chemotaxis system with two chemicals. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	11
16	Wavelet Filtering for Exact Controllability of the Wave Equation. SIAM Journal of Scientific Computing, 2006, 28, 1851-1885.	2.8	10
17	On a fully parabolic chemotaxis system with source term and periodic asymptotic behavior. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	10
18	A note on a periodic Parabolic-ODE chemotaxis system. Applied Mathematics Letters, 2020, 106, 106351.	2.7	9

#	Article	IF	Citations
19	Solving a fully parabolic chemotaxis system with periodic asymptotic behavior using Generalized Finite Difference Method. Applied Numerical Mathematics, 2020, 157, 356-371.	2.1	8
20	A convergent numerical scheme for integrodifferential kinetic models of angiogenesis. Journal of Computational Physics, 2018, 375, 1270-1294.	3.8	7
21	On a parabolic–elliptic chemotaxis system with periodic asymptotic behavior. Mathematical Methods in the Applied Sciences, 2019, 42, 1210-1226.	2.3	7
22	Solving Monge-Ampère equation in 2D and 3D by Generalized Finite Difference Method. Engineering Analysis With Boundary Elements, 2021, 124, 52-63.	3.7	6
23	Convergence and numerical simulations of prey-predator interactions via a meshless method. Applied Numerical Mathematics, 2021, 161, 333-347.	2.1	5
24	Convergence and Numerical Solution of a Model for Tumor Growth. Mathematics, 2021, 9, 1355.	2.2	5
25	Convergence and numerical solution of nonlinear generalized Benjamin–Bona–Mahony–Burgers equation in 2D and 3D via generalized finite difference method. International Journal of Computer Mathematics, 2022, 99, 1517-1537.	1.8	5
26	A Novel Spatio-Temporal Fully Meshless Method for Parabolic PDEs. Mathematics, 2022, 10, 1870.	2.2	5
27	Complex Ginzburg–Landau Equation with Generalized Finite Differences. Mathematics, 2020, 8, 2248.	2.2	4
28	Continuous and discrete periodic asymptotic behavior of solutions to a competitive chemotaxis PDEs system. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105592.	3.3	4
29	Solving a reaction–diffusion system with chemotaxis and non-local terms using Generalized Finite Difference Method. Study of the convergence. Journal of Computational and Applied Mathematics, 2021, 389, 113325.	2.0	4
30	A Note on a Meshless Method for Fractional Laplacian at Arbitrary Irregular Meshes. Mathematics, 2021, 9, 2843.	2.2	4
31	On a fully parabolic chemotaxis system with nonlocal growth term. Nonlinear Analysis: Theory, Methods & Applications, 2021, 213, 112518.	1.1	3
32	Uniform boundedness of solutions for a predator-prey system with diffusion and chemotaxis. Comptes Rendus Mathematique, 2020, 358, 103-108.	0.3	3
33	On a Parabolic-ODE system of chemotaxis. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 279-292.	1.1	3
34	Global existence and asymptotic behavior of solutions to a chemotaxis system with chemicals and prey-predator terms. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 3335-3356.	0.9	3
35	Numerical Solutions to Wave Propagation and Heat Transfer Non-Linear PDEs by Using a Meshless Method. Mathematics, 2022, 10, 332.	2.2	3
36	Convergence of a Semidiscrete Two-Grid Algorithm for the Controllability of the $1-d$ Wave Equation. SIAM Journal on Numerical Analysis, 2008, 46, 3233-3263.	2.3	2

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37	Uniform asymptotic behavior of numerical solutions for a predator-prey system with diffusion and chemotaxis. Engineering Analysis With Boundary Elements, 2020, 120, 82-94.	3.7	2
38	On the convergence of the generalized finite difference method for solving a chemotaxis system with no chemical diffusion. Computational Particle Mechanics, 2021, 8, 625-636.	3.0	2
39	Uniform observability of the wave equation via a discrete Ingham inequality. , 0, , .		1
40	Uniform boundedness for a predator-prey system with chemotaxis and dormancy of predators. Quarterly of Applied Mathematics, 2021, 79, 367-382.	0.7	1
41	Convergence of a multi-grid algorithm for the controllability of the wave equation. , 0, , .		0
42	Asymptotic stability of a mathematical model of cell population. Journal of Mathematical Analysis and Applications, 2014, 415, 963-971.	1.0	0
43	Uniform Boundedness of Solutions for a Two Species Taxis System with Intraspecific and Interspecific Competition. Results in Mathematics, 2021, 76, 1.	0.8	0
44	Solving Eikonal equation in 2D and 3D by generalized finite difference method. Computational and Mathematical Methods, 2021, 3, e1203.	0.8	0
45	An inverse problem for the compressible Reynolds equation. Quarterly of Applied Mathematics, 2015, 73, 607-614.	0.7	0
46	Dynamics in a Chemotaxis Model with Periodic Source. Mathematics, 2022, 10, 312.	2.2	0