

# Costica Morosanu

## List of Publications by Year in descending order

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20  
papers

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citations

1040056

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1125743

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g-index

20  
all docs

20  
docs citations

20  
times ranked

33  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Generalized Phase-Field System. Journal of Mathematical Analysis and Applications, 1999, 237, 515-540.	1.0	16
2	A Product Formula Approach to a Nonhomogeneous Boundary Optimal Control Problem Governed by a Nonlinear Phase-field Transition System. Journal of Optimization Theory and Applications, 2011, 148, 14-30.	1.5	15
3	Image Restoration using a Nonlinear Second-order Parabolic PDE-based Scheme. Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica, 2017, 25, 33-48.	0.3	14
4	Analysis of an iterative scheme of fractional steps type associated to the reaction-diffusion equation endowed with a general nonlinearity and Cauchy-Neumann boundary conditions. Journal of Mathematical Analysis and Applications, 2015, 425, 1225-1239.	1.0	13
5	On the existence, uniqueness and regularity of solutions to the phase-field system with a general regular potential and a general class of nonlinear and non-homogeneous boundary conditions. Nonlinear Analysis: Theory, Methods & Applications, 2015, 113, 190-208.	1.1	13
6	A qualitative analysis and numerical simulations of a nonlinear second-order anisotropic diffusion problem with non-homogeneous Cauchy-Neumann boundary conditions. Applied Mathematics and Computation, 2019, 350, 170-180.	2.2	13
7	On the existence, uniqueness and regularity of solutions to the phase-field transition system with non-homogeneous Cauchy-Neumann and nonlinear dynamic boundary conditions. Applied Mathematical Modelling, 2016, 40, 192-207.	4.2	12
8	A Qualitative Analysis of a Nonlinear Second-Order Anisotropic Diffusion Problem with Non-homogeneous Cauchy-Stefan-Boltzmann Boundary Conditions. Applied Mathematics and Optimization, 2021, 84, 227-244.	1.6	12
9	Well-posedness for a phase-field transition system endowed with a polynomial nonlinearity and a general class of nonlinear dynamic boundary conditions. Journal of Fixed Point Theory and Applications, 2016, 18, 225-250.	1.1	10
10	Numerical approximation for the phase-field transition system. International Journal of Computer Mathematics, 1996, 62, 209-221.	1.8	9
11	Rigorous Mathematical Investigation of a Nonlocal and Nonlinear Second-Order Anisotropic Reaction-Diffusion Model: Applications on Image Segmentation. Mathematics, 2021, 9, 91.	2.2	9
12	Analysis of an iterative scheme of fractional steps type associated to the nonlinear phase-field equation with non-homogeneous dynamic boundary conditions. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 537-556.	1.1	9
13	Modeling of the continuous casting process of steel via phase-field transition system. Fractional steps method. AIMS Mathematics, 2019, 4, 648-662.	1.6	9
14	Advances in Variational and Partial Differential Equation-Based Models for Image Processing and Computer Vision. Mathematical Problems in Engineering, 2018, 2018, 1-2.	1.1	6
15	WELL-POSEDNESS AND NUMERICAL SIMULATIONS OF AN ANISOTROPIC REACTION-DIFFUSION MODEL IN CASE 2D. Journal of Applied Analysis and Computation, 2021, 11, 2258-2278.	0.5	6
16	A Product Formula Approach to a Nonhomogeneous Boundary Optimal Control Problem Governed by a Nonlinear Phase-field Transition System. Journal of Optimization Theory and Applications, 2011, 148, 31-45.	1.5	5
17	Stability and errors analysis of two iterative schemes of fractional steps type associated to a nonlinear reaction-diffusion equation. Discrete and Continuous Dynamical Systems - Series S, 2018, .	1.1	5
18	Qualitative and quantitative analysis for a nonlocal and nonlinear reaction-diffusion problem with in-homogeneous Neumann boundary conditions. Discrete and Continuous Dynamical Systems - Series S, 2023, 16, 1-15.	1.1	4

#	ARTICLE	IF	CITATIONS
19	The phase-field transition system with non-homogeneous Cauchy–Stefan–Boltzmann and homogeneous Neumann boundary conditions and non-constant thermal conductivity. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2013, 87, 22-32.	1.1	1
20	Optimal strategies to diminish a pest population via bilinear controls. <i>Applied Mathematics Letters</i> , 2015, 40, 7-12.	2.7	1