

Laurence Cherfils

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

384
citations

11
h-index

19
g-index

35
ext. papers

432
ext. citations

1.7
avg, IF

3.72
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 32 | A convergent convex splitting scheme for a nonlocal Cahn-Hilliard-Doi type equation with a transport term. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, S225-S250 | 1.8 | 0 |
| 31 | A Cahn-Hilliard model with a proliferation term for the proliferative-to-invasive transition of hypoxic glioma cells. <i>Communications in Mathematical Sciences</i> , 2021 , 19, 1509-1532 | 1 | 1 |
| 30 | On a Cahn-Hilliard model for image segmentation. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 5753-5766 | 2.3 | 2 |
| 29 | Mathematical modeling of brain metabolites variations in the circadian rhythm. <i>AIMS Mathematics</i> , 2020 , 5, 216-225 | 2.2 | 1 |
| 28 | The compressible Navier-Stokes-Cahn-Hilliard equations with dynamic boundary conditions. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 2557-2584 | 3.5 | 2 |
| 27 | Energy stable numerical scheme for the viscous Cahn-Hilliard-Navier-Stokes equations with moving contact line. <i>Numerical Methods for Partial Differential Equations</i> , 2019 , 35, 1113-1133 | 2.5 | 3 |
| 26 | Asymptotic behavior of higher-order Navier-Stokes-Cahn-Hilliard systems. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 4776-4794 | 2.3 | 2 |
| 25 | Numerical validation of an upscaled sharp-diffuse interface model for stratified miscible flows. <i>Mathematics and Computers in Simulation</i> , 2017 , 137, 246-265 | 3.3 | 3 |
| 24 | A Complex Version of the Cahn-Hilliard Equation for Grayscale Image Inpainting. <i>Multiscale Modeling and Simulation</i> , 2017 , 15, 575-605 | 1.8 | 14 |
| 23 | Higher-order anisotropic models in phase separation. <i>Advances in Nonlinear Analysis</i> , 2017 , 8, 278-302 | 2.8 | 6 |
| 22 | HIGHER-ORDER MODELS IN PHASE SEPARATION. <i>Journal of Applied Analysis and Computation</i> , 2017 , 7, 39-56 | 0.4 | 0 |
| 21 | Higher-order generalized Cahn-Hilliard equations. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2017 , 1-22 | 0.5 | 3 |
| 20 | A Cahn-Hilliard System with a Fidelity Term for Color Image Inpainting. <i>Journal of Mathematical Imaging and Vision</i> , 2016 , 54, 117-131 | 1.6 | 10 |
| 19 | On the viscous Cahn-Hilliard-Navier-Stokes equations with dynamic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2016 , 15, 1419-1449 | 1.9 | 8 |
| 18 | Robust family of exponential attractors for isotropic crystal models. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 1705-1729 | 2.3 | 1 |
| 17 | Higher-Order Allen-Cahn Models with Logarithmic Nonlinear Terms. <i>Studies in Systems, Decision and Control</i> , 2016 , 247-263 | 0.8 | 2 |
| 16 | On the Bertozzi-Esedoglu-Gillette-Cahn-Hilliard Equation with Logarithmic Nonlinear Terms. <i>SIAM Journal on Imaging Sciences</i> , 2015 , 8, 1123-1140 | 1.9 | 15 |

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|----|--|-----|-----|
| 15 | Finite-dimensional attractors for the Bertozzi--Esedoglu--Gillette--Cahn--Hilliard equation in image inpainting. <i>Inverse Problems and Imaging</i> , 2015 , 9, 105-125 | 2.1 | 12 |
| 14 | A numerical analysis of the CahnHilliard equation with non-permeable walls. <i>Numerische Mathematik</i> , 2014 , 128, 517-549 | 2.2 | 24 |
| 13 | On a generalized Cahn-Hilliard equation with biological applications. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 2013-2026 | 1.3 | 25 |
| 12 | A Variational Approach to a CahnHilliard Model in a Domain with Nonpermeable Walls. <i>Journal of Mathematical Sciences</i> , 2013 , 189, 604-636 | 0.4 | 33 |
| 11 | Long time behavior of the Caginalp system with singular potentials and dynamic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2012 , 11, 2261-2290 | 1.9 | 3 |
| 10 | The Cahn-Hilliard Equation with Logarithmic Potentials. <i>Milan Journal of Mathematics</i> , 2011 , 79, 561-596 | | 112 |
| 9 | A doubly nonlinear parabolic equation with a singular potential. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2011 , 4, 51-66 | 2.8 | |
| 8 | A numerical analysis of the Cahn-Hilliard equation with dynamic boundary conditions. <i>Discrete and Continuous Dynamical Systems</i> , 2010 , 27, 1511-1533 | 2 | 25 |
| 7 | On the Caginalp system with dynamic boundary conditions and singular potentials. <i>Applications of Mathematics</i> , 2009 , 54, 89-115 | | 38 |
| 6 | Existence of global solutions to the Caginalp phase-field system with dynamic boundary conditions and singular potentials. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 343, 557-566 | 1.1 | 19 |
| 5 | Non-global existence for an Allen-Cahn-Gurtin equation with logarithmic free energy. <i>Journal of Evolution Equations</i> , 2008 , 8, 727-748 | 1.2 | 3 |
| 4 | Approximation of solution branches for semilinear bifurcation problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1999 , 33, 191-207 | 1.8 | |
| 3 | Finite-dimensional attractors for a model of Allen-Cahn equation based on a microforce balance. <i>Comptes Rendus Mathematique</i> , 1999 , 329, 1109-1114 | | 2 |
| 2 | A parallel and adaptive continuation method for semilinear bifurcation problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998 , 163, 247-259 | 5.7 | 4 |
| 1 | Approximation des branches de solutions d'un probl me de bifurcation semi-lin aire. <i>Comptes Rendus Mathematique</i> , 1997 , 324, 933-938 | | |