

# Laurence Cherfils

## List of Publications by Citations

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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	The Cahn-Hilliard Equation with Logarithmic Potentials. <i>Milan Journal of Mathematics</i> , <b>2011</b> , 79, 561-596	1	112
31	On the Caginalp system with dynamic boundary conditions and singular potentials. <i>Applications of Mathematics</i> , <b>2009</b> , 54, 89-115		38
30	A Variational Approach to a Cahn-Hilliard Model in a Domain with Nonpermeable Walls. <i>Journal of Mathematical Sciences</i> , <b>2013</b> , 189, 604-636	0.4	33
29	A numerical analysis of the Cahn-Hilliard equation with dynamic boundary conditions. <i>Discrete and Continuous Dynamical Systems</i> , <b>2010</b> , 27, 1511-1533	2	25
28	On a generalized Cahn-Hilliard equation with biological applications. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2014</b> , 19, 2013-2026	1.3	25
27	A numerical analysis of the Cahn-Hilliard equation with non-permeable walls. <i>Numerische Mathematik</i> , <b>2014</b> , 128, 517-549	2.2	24
26	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> , <b>2008</b> , 343, 557-566	1.1	19
25	On the Bertozzi-Esedoglu-Gillette-Cahn-Hilliard Equation with Logarithmic Nonlinear Terms. <i>SIAM Journal on Imaging Sciences</i> , <b>2015</b> , 8, 1123-1140	1.9	15
24	A Complex Version of the Cahn-Hilliard Equation for Grayscale Image Inpainting. <i>Multiscale Modeling and Simulation</i> , <b>2017</b> , 15, 575-605	1.8	14
23	Finite-dimensional attractors for the Bertozzi-Esedoglu-Gillette-Cahn-Hilliard equation in image inpainting. <i>Inverse Problems and Imaging</i> , <b>2015</b> , 9, 105-125	2.1	12
22	A Cahn-Hilliard System with a Fidelity Term for Color Image Inpainting. <i>Journal of Mathematical Imaging and Vision</i> , <b>2016</b> , 54, 117-131	1.6	10
21	On the viscous Cahn-Hilliard-Navier-Stokes equations with dynamic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , <b>2016</b> , 15, 1419-1449	1.9	8
20	Higher-order anisotropic models in phase separation. <i>Advances in Nonlinear Analysis</i> , <b>2017</b> , 8, 278-302	2.8	6
19	A parallel and adaptive continuation method for semilinear bifurcation problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1998</b> , 163, 247-259	5.7	4
18	Numerical validation of an upscaled sharp-diffuse interface model for stratified miscible flows. <i>Mathematics and Computers in Simulation</i> , <b>2017</b> , 137, 246-265	3.3	3
17	Energy stable numerical scheme for the viscous Cahn-Hilliard-Navier-Stokes equations with moving contact line. <i>Numerical Methods for Partial Differential Equations</i> , <b>2019</b> , 35, 1113-1133	2.5	3
16	Non-global existence for an Allen-Cahn-Gurtin equation with logarithmic free energy. <i>Journal of Evolution Equations</i> , <b>2008</b> , 8, 727-748	1.2	3

15	Higher-order generalized Cahn-Hilliard equations. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , <b>2017</b> , 1-22	0.5	3
14	Long time behavior of the Caginalp system with singular potentials and dynamic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , <b>2012</b> , 11, 2261-2290	1.9	3
13	The compressible Navier-Stokes-Cahn-Hilliard equations with dynamic boundary conditions. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 2557-2584	3.5	2
12	Asymptotic behavior of higher-order Navier-Stokes-Cahn-Hilliard systems. <i>Mathematical Methods in the Applied Sciences</i> , <b>2018</b> , 41, 4776-4794	2.3	2
11	Finite-dimensional attractors for a model of Allen-Cahn equation based on a microforce balance. <i>Comptes Rendus Mathematique</i> , <b>1999</b> , 329, 1109-1114		2
10	Higher-Order Allen-Cahn Models with Logarithmic Nonlinear Terms. <i>Studies in Systems, Decision and Control</i> , <b>2016</b> , 247-263	0.8	2
9	On a Cahn-Hilliard model for image segmentation. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 5753-5766	2.3	2
8	Mathematical modeling of brain metabolites variations in the circadian rhythm. <i>AIMS Mathematics</i> , <b>2020</b> , 5, 216-225	2.2	1
7	Robust family of exponential attractors for isotropic crystal models. <i>Mathematical Methods in the Applied Sciences</i> , <b>2016</b> , 39, 1705-1729	2.3	1
6	A Cahn-Hilliard model with a proliferation term for the proliferative-to-invasive transition of hypoxic glioma cells. <i>Communications in Mathematical Sciences</i> , <b>2021</b> , 19, 1509-1532	1	1
5	HIGHER-ORDER MODELS IN PHASE SEPARATION. <i>Journal of Applied Analysis and Computation</i> , <b>2017</b> , 7, 39-56	0.4	0
4	A convergent convex splitting scheme for a nonlocal Cahn-Hilliard-Ono type equation with a transport term. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2021</b> , 55, S225-S250	1.8	0
3	Approximation des branches de solutions d'un problème de bifurcation semi-linéaire. <i>Comptes Rendus Mathematique</i> , <b>1997</b> , 324, 933-938		
2	Approximation of solution branches for semilinear bifurcation problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1999</b> , 33, 191-207	1.8	
1	A doubly nonlinear parabolic equation with a singular potential. <i>Discrete and Continuous Dynamical Systems - Series S</i> , <b>2011</b> , 4, 51-66	2.8	