Laurence Cherfils

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8364196/publications.pdf

Version: 2024-02-01

32	525	758635 12	642321 23
papers	citations	h-index	g-index

35	35	35	194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Cahn-Hilliard Equation with Logarithmic Potentials. Milan Journal of Mathematics, 2011, 79, 561-596.	0.7	148
2	On the Caginalp system with dynamic boundary conditions and singular potentials. Applications of Mathematics, 2009, 54, 89-115.	0.9	56
3	A Variational Approach to a Cahnâ€“Hilliard Model in a Domain with Nonpermeable Walls. Journal of Mathematical Sciences, 2013, 189, 604-636.	0.1	35
4	A numerical analysis of the Cahn-Hilliard equation with dynamic boundary conditions. Discrete and Continuous Dynamical Systems, 2010, 27, 1511-1533.	0.5	35
5	On a generalized Cahn-Hilliard equation with biological applications. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 2013-2026.	0.5	30
6	A numerical analysis of the Cahnâ€“Hilliard equation with non-permeable walls. Numerische Mathematik, 2014, 128, 517-549.	0.9	29
7	Existence of global solutions to the Caginalp phase-field system with dynamic boundary conditions and singular potentials. Journal of Mathematical Analysis and Applications, 2008, 343, 557-566.	0.5	25
8	On the Bertozzi--Esedoglu--Gillette--Cahn--Hilliard Equation with Logarithmic Nonlinear Terms. SIAM Journal on Imaging Sciences, 2015, 8, 1123-1140.	1.3	21
9	A Complex Version of the Cahn--Hilliard Equation for Grayscale Image Inpainting. Multiscale Modeling and Simulation, 2017, 15, 575-605.	0.6	21
10	A Cahnâ€“Hilliard System with a Fidelity Term for Color Image Inpainting. Journal of Mathematical Imaging and Vision, 2016, 54, 117-131.	0.8	17
11	Finite-dimensional attractors for the Bertozzi--Esedoglu--Gillette--Cahn--Hilliard equation in image inpainting. Inverse Problems and Imaging, 2015, 9, 105-125.	0.6	16
12	Higher-order anisotropic models in phase separation. Advances in Nonlinear Analysis, 2017, 8, 278-302.	1.3	9
13	Higher-order generalized Cahnâ€“Hilliard equations. Electronic Journal of Qualitative Theory of Differential Equations, 2017, , 1-22.	0.2	9
14	On the viscous Cahn-Hilliard-Navier-Stokes equations with dynamic boundary conditions. Communications on Pure and Applied Analysis, 2016, 15, 1419-1449.	0.4	9
15	The compressible Navierâ€“Stokesâ€“Cahnâ€“Hilliard equations with dynamic boundary conditions. Mathematical Models and Methods in Applied Sciences, 2019, 29, 2557-2584.	1.7	7
16	A parallel and adaptive continuation method for semilinear bifurcation problems. Computer Methods in Applied Mechanics and Engineering, 1998, 163, 247-259.	3.4	5
17	Finite-dimensional attractors for a model of Allen-Cahn equation based on a microforce balance. Comptes Rendus Mathematique, 1999, 329, 1109-1114.	0.5	4
18	Numerical validation of an upscaled sharpâ€“diffuse interface model for stratified miscible flows. Mathematics and Computers in Simulation, 2017, 137, 246-265.	2.4	4

#	Article	IF	Citations
19	Energy stable numerical scheme for the viscous Cahnâ€“Hilliardâ€“Navierâ€“Stokes equations with moving contact line. Numerical Methods for Partial Differential Equations, 2019, 35, 1113-1133.	2.0	4
20	On a Cahnâ€“Hilliard model for image segmentation. Mathematical Methods in the Applied Sciences, 2021, 44, 5753-5766.	1.2	4
21	HIGHER-ORDER MODELS IN PHASE SEPARATION. Journal of Applied Analysis and Computation, 2017, 7, 39-56.	0.2	4
22	Long time behavior of the Caginalp system with singular potentials and dynamic boundary conditions. Communications on Pure and Applied Analysis, 2012, 11, 2261-2290.	0.4	4
23	Non-global existence for an Allen-Cahn-Gurtin equation with logarithmic free energy. Journal of Evolution Equations, 2008, 8, 727-748.	0.6	3
24	A convergent convex splitting scheme for a nonlocal Cahnâ€“Hilliardâ€“Oono type equation with a transport term. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S225-S250.	0.8	3
25	Higher-Order Allenâ€“Cahn Models withÂLogarithmic Nonlinear Terms. Studies in Systems, Decision and Control, 2016, , 247-263.	0.8	2
26	Asymptotic behavior of higherâ€•order Navierâ€•Stokesâ€•Cahnâ€•Hilliard systems. Mathematical Methods in the Applied Sciences, 2018, 41, 4776-4794.	1.2	2
27	Robust family of exponential attractors for isotropic crystal models. Mathematical Methods in the Applied Sciences, 2016, 39, 1705-1729.	1.2	1
28	A Cahnâ€“Hilliard model with a proliferation term for the proliferative-to-invasive transition of hypoxic glioma cells. Communications in Mathematical Sciences, 2021, 19, 1509-1532.	0.5	1
29	Mathematical modeling of brain metabolites variations in the circadian rhythm. AIMS Mathematics, 2020, 5, 216-225.	0.7	1
30	Analysis of discretized parabolic problems modeling electrostatic micro-electromechanical systems. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 1601-1621.	0.6	1
31	Approximation of solution branches for semilinear bifurcation problems. ESAIM: Mathematical Modelling and Numerical Analysis, 1999, 33, 191-207.	0.8	0
32	A doubly nonlinear parabolic equation with a singular potential. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 51-66.	0.6	0