

Harald Garcke

List of Publications by Year in descending order

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164
papers

5,137
citations

87843

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183
all docs

183
docs citations

183
times ranked

1722
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-time dynamics of the Cahn–Hilliard equation with kinetic rate dependent dynamic boundary conditions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2022, 215, 112619.	0.6	6
2	Stability analysis for stationary solutions of the Mullins–Sekerka flow with boundary contact. <i>Mathematische Nachrichten</i> , 2022, 295, 683-705.	0.4	3
3	Volume-preserving parametric finite element methods for axisymmetric geometric evolution equations. <i>Journal of Computational Physics</i> , 2022, 460, 111180.	1.9	10
4	Numerical analysis for a Cahn–Hilliard system modelling tumour growth with chemotaxis and active transport. <i>Journal of Numerical Mathematics</i> , 2022, 30, 295-324.	1.8	5
5	A Diffuse Interface Model for Cell Blebbing Including Membrane-Cortex Coupling with Linker Dynamics. <i>SIAM Journal on Applied Mathematics</i> , 2022, 82, 1091-1112.	0.8	1
6	Numerical analysis for the interaction of mean curvature flow and diffusion on closed surfaces. <i>Numerische Mathematik</i> , 2022, 151, 873-925.	0.9	7
7	Strong well-posedness, stability and optimal control theory for a mathematical model for magneto-viscoelastic fluids. <i>Calculus of Variations and Partial Differential Equations</i> , 2022, 61, .	0.9	4
8	On a degenerate parabolic system describing the mean curvature flow of rotationally symmetric closed surfaces. <i>Journal of Evolution Equations</i> , 2021, 21, 201-224.	0.6	2
9	On a phase field model of Cahn–Hilliard type for tumour growth with mechanical effects. <i>Nonlinear Analysis: Real World Applications</i> , 2021, 57, 103192.	0.9	25
10	Structure-preserving discretizations of gradient flows for axisymmetric two-phase biomembranes. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 1899-1940.	1.5	3
11	Sparse Optimal Control of a Phase Field Tumor Model with Mechanical Effects. <i>SIAM Journal on Control and Optimization</i> , 2021, 59, 1555-1580.	1.1	12
12	Stable approximations for axisymmetric Willmore flow for closed and open surfaces. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 833-885.	0.8	5
13	Wie mathematische Modelle helfen, das Wachstum von Tumoren zu verstehen. <i>Mitteilungen Der Deutschen Mathematiker-Vereinigung</i> , 2021, 29, 62-67.	0.0	0
14	Shape and topology optimization involving the eigenvalues of an elastic structure: A multi-phase-field approach. <i>Advances in Nonlinear Analysis</i> , 2021, 11, 159-197.	1.3	13
15	Numerical approximation of boundary value problems for curvature flow and elastic flow in Riemannian manifolds. <i>Numerische Mathematik</i> , 2021, 149, 375-415.	0.9	2
16	Cahn–Hilliard–Brinkman systems for tumour growth. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2021, 14, 3989.	0.6	9
17	Standard planar double bubbles are dynamically stable under surface diffusion flow. <i>Communications in Analysis and Geometry</i> , 2021, 29, 1007-1060.	0.2	1
18	Numerical approximation of curve evolutions in Riemannian manifolds. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 1601-1651.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Long-time dynamics for a Cahn–Hilliard tumor growth model with chemotaxis. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020, 71, 1.	0.7	5
20	Long time existence of solutions to an elastic flow of networks. <i>Communications in Partial Differential Equations</i> , 2020, 45, 1253-1305.	1.0	8
21	Weak Solutions of the Cahn–Hilliard System with Dynamic Boundary Conditions: A Gradient Flow Approach. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 340-369.	0.9	26
22	Parametric finite element approximations of curvature-driven interface evolutions. <i>Handbook of Numerical Analysis</i> , 2020, 21, 275-423.	0.9	23
23	Optimal control of time-discrete two-phase flow driven by a diffuse-interface model. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2019, 25, 13.	0.7	7
24	Variational discretization of axisymmetric curvature flows. <i>Numerische Mathematik</i> , 2019, 141, 791-837.	0.9	14
25	Diffuse Interface Approaches in Atmosphere and Ocean Modeling and Numerical Implementation. <i>Mathematics of Planet Earth</i> , 2019, , 287-307.	0.1	0
26	Surface, Bulk, and Geometric Partial Differential Equations: Interfacial, stochastic, non-local and discrete structures. <i>Oberwolfach Reports</i> , 2019, 16, 133-207.	0.0	0
27	Stable Discretizations of Elastic Flow in Riemannian Manifolds. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 1987-2018.	1.1	5
28	On a Cahn–Hilliard–Brinkman Model for Tumor Growth and Its Singular Limits. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 1868-1912.	0.9	24
29	Analysis of Cahn–Hilliard–Brinkman models for tumour growth. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900021.	0.2	5
30	Analysis of a Cahn–Hilliard–Brinkman model for tumour growth with chemotaxis. <i>Journal of Differential Equations</i> , 2019, 266, 5998-6036.	1.1	46
31	Willmore flow of planar networks. <i>Journal of Differential Equations</i> , 2019, 266, 2019-2051.	1.1	10
32	Finite element methods for fourth order axisymmetric geometric evolution equations. <i>Journal of Computational Physics</i> , 2019, 376, 733-766.	1.9	19
33	Existence of weak solutions for a diffuse interface model for two-phase flow with surfactants. <i>Communications on Pure and Applied Analysis</i> , 2019, 18, 195-225.	0.4	6
34	A phase field approach to shape optimization in Navier–Stokes flow with integral state constraints. <i>Advances in Computational Mathematics</i> , 2018, 44, 1345-1383.	0.8	22
35	A multiphase Cahn–Hilliard–Darcy model for tumour growth with necrosis. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 525-577.	1.7	76
36	Optimal Control of Treatment Time in a Diffuse Interface Model of Tumor Growth. <i>Applied Mathematics and Optimization</i> , 2018, 78, 495-544.	0.8	50

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37	A Hele-Shaw-Cahn-Hilliard Model for Incompressible Two-Phase Flows with Different Densities. <i>Journal of Mathematical Fluid Mechanics</i> , 2018, 20, 531-567.	0.4	22
38	Willmore Flow of Networks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800071.	0.2	1
39	Cahn-Hilliard inpainting with the double obstacle potential. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 2064-2089.	1.3	9
40	Weak solutions and diffuse interface models for incompressible two-phase flows. , 2018, , 1267-1327.		6
41	On a Cahn-Hilliard-Darcy system for tumour growth with solution dependent source terms. <i>Springer INdAM Series</i> , 2018, , 243-264.	0.4	18
42	Mathematical modeling. <i>Springer Undergraduate Mathematics Series</i> , 2017, , .	0.1	17
43	A volume-of-fluid method for three-dimensional hexagonal solidification processes. <i>Journal of Computational Physics</i> , 2017, 339, 356-369.	1.9	19
44	Two-phase flow with surfactants: diffuse interface models and their analysis. <i>Advances in Mathematical Fluid Mechanics</i> , 2017, , 255-270.	0.1	3
45	Diffuse interface models for incompressible two-phase flows with different densities. <i>Advances in Mathematical Fluid Mechanics</i> , 2017, , 203-229.	0.1	4
46	Segmentation of three-dimensional images with parametric active surfaces and topology changes. <i>Journal of Scientific Computing</i> , 2017, 72, 1333-1367.	1.1	4
47	Well-posedness of a Cahn-Hilliard system modelling tumour growth with chemotaxis and active transport. <i>European Journal of Applied Mathematics</i> , 2017, 28, 284-316.	1.4	77
48	Finite element approximation for the dynamics of fluidic two-phase biomembranes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017, 51, 2319-2366.	0.8	18
49	Analysis of a Cahn-Hilliard system with non-zero Dirichlet conditions modeling tumor growth with chemotaxis. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 4277-4308.	0.5	52
50	Partielle Differentialgleichungen. <i>Springer-Lehrbuch</i> , 2017, , 309-430.	0.1	0
51	Basic Principles of Thermodynamics. <i>Springer Undergraduate Mathematics Series</i> , 2017, , 75-129.	0.1	0
52	Free Boundary Problems. <i>Springer Undergraduate Mathematics Series</i> , 2017, , 427-487.	0.1	0
53	Kontinuumsmechanik. <i>Springer-Lehrbuch</i> , 2017, , 199-308.	0.1	0
54	Grundzüge der Thermodynamik. <i>Springer-Lehrbuch</i> , 2017, , 77-131.	0.1	0

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55	Continuum Mechanics. Springer Undergraduate Mathematics Series, 2017, , 197-302.	0.1	0
56	Local well-posedness for volume-preserving mean curvature and Willmore flows with line tension. Mathematische Nachrichten, 2016, 289, 136-174.	0.4	5
57	A stable numerical method for the dynamics of fluidic membranes. Numerische Mathematik, 2016, 134, 783-822.	0.9	33
58	A Cahn-Hilliard-Darcy model for tumour growth with chemotaxis and active transport. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1095-1148.	1.7	127
59	A coupled surface-Cahn-Hilliard bulk-diffusion system modeling lipid raft formation in cell membranes. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1149-1189.	1.7	26
60	Finite element approximation for the dynamics of asymmetric fluidic biomembranes. Mathematics of Computation, 2016, 86, 1037-1069.	1.1	8
61	Optimal control of time discrete two-phase flow governed by a diffuse interface model. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 785-786.	0.2	1
62	Computational Parametric Willmore Flow with Spontaneous Curvature and Area Difference Elasticity Effects. SIAM Journal on Numerical Analysis, 2016, 54, 1732-1762.	1.1	10
63	Sharp Interface Limit for a Phase Field Model in Structural Optimization. SIAM Journal on Control and Optimization, 2016, 54, 1558-1584.	1.1	24
64	Applying a phase field approach for shape optimization of a stationary Navier-Stokes flow. ESAIM - Control, Optimisation and Calculus of Variations, 2016, 22, 309-337.	0.7	6
65	Segmentation and Restoration of Images on Surfaces by Parametric Active Contours with Topology Changes. Journal of Mathematical Imaging and Vision, 2016, 55, 105-124.	0.8	12
66	Image Segmentation Using Parametric Contours With Free Endpoints. IEEE Transactions on Image Processing, 2016, 25, 1639-1648.	6.0	8
67	A stable and linear time discretization for a thermodynamically consistent model for two-phase incompressible flow. Applied Numerical Mathematics, 2016, 99, 151-171.	1.2	45
68	Shape and Topology Optimization in Stokes Flow with a Phase Field Approach. Applied Mathematics and Optimization, 2016, 73, 23-70.	0.8	16
69	Weak Solutions and Diffuse Interface Models for Incompressible Two-Phase Flows. , 2016, , 1-60.		1
70	Global weak solutions and asymptotic limits of a Cahn-Hilliard-Darcy system modelling tumour growth. AIMS Mathematics, 2016, 1, 318-360.	0.7	51
71	Shape optimization for surface functionals in Navier-Stokes flow using a phase field approach. Interfaces and Free Boundaries, 2016, 18, 219-261.	0.2	13
72	On convergence of solutions to equilibria for fully nonlinear parabolic systems with nonlinear boundary conditions. Journal of Evolution Equations, 2015, 15, 913-959.	0.6	3

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73	Numerical computations of the dynamics of fluidic membranes and vesicles. <i>Physical Review E</i> , 2015, 92, 052704.	0.8	31
74	Stable finite element approximations of two-phase flow with soluble surfactant. <i>Journal of Computational Physics</i> , 2015, 297, 530-564.	1.9	15
75	Stability of spherical caps under the volume-preserving mean curvature flow with line tension. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 117, 8-37.	0.6	5
76	A Stable Parametric Finite Element Discretization of Two-Phase Navier–Stokes Flow. <i>Journal of Scientific Computing</i> , 2015, 63, 78-117.	1.1	28
77	Numerical Approximation of Phase Field Based Shape and Topology Optimization for Fluids. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A1846-A1871.	1.3	41
78	A Phase Field Approach for Shape and Topology Optimization in Stokes Flow. <i>International Series of Numerical Mathematics</i> , 2015, , 103-115.	1.0	3
79	Stable numerical approximation of two-phase flow with a Boussinesq–Scriven surface fluid. <i>Communications in Mathematical Sciences</i> , 2015, 13, 1829-1874.	0.5	9
80	Stable phase field approximations of anisotropic solidification. <i>IMA Journal of Numerical Analysis</i> , 2014, 34, 1289-1327.	1.5	18
81	Efficient Image Segmentation and Restoration Using Parametric Curve Evolution with Junctions and Topology Changes. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 1451-1483.	1.3	17
82	Relating phase field and sharp interface approaches to structural topology optimization. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2014, 20, 1025-1058.	0.7	40
83	A Phase-Field Approach for Wetting Phenomena of Multiphase Droplets on Solid Surfaces. <i>Langmuir</i> , 2014, 30, 4033-4039.	1.6	60
84	Mean Curvature Flow with Triple Junctions in Higher Space Dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 211, 301-334.	1.1	13
85	Phase Field Models Versus Parametric Front Tracking Methods: Are They Accurate and Computationally Efficient?. <i>Communications in Computational Physics</i> , 2014, 15, 506-555.	0.7	11
86	Multi-material Phase Field Approach to Structural Topology Optimization. <i>International Series of Numerical Mathematics</i> , 2014, , 231-246.	1.0	17
87	Diffuse interface modelling of soluble surfactants in two-phase flow. <i>Communications in Mathematical Sciences</i> , 2014, 12, 1475-1522.	0.5	42
88	Curvature Driven Interface Evolution. <i>Deutsche Mathematiker Vereinigung Jahresbericht</i> , 2013, 115, 63-100.	0.4	32
89	Existence of Weak Solutions for a Diffuse Interface Model for Two-Phase Flows of Incompressible Fluids with Different Densities. <i>Journal of Mathematical Fluid Mechanics</i> , 2013, 15, 453-480.	0.4	71
90	Eliminating spurious velocities with a stable approximation of viscous incompressible two-phase Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 267, 511-530.	3.4	27

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91	On the stable discretization of strongly anisotropic phase field models with applications to crystal growth. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2013, 93, 719-732.	0.9	15
92	On an incompressible Navier-Stokes/Cahn-Hilliard system with degenerate mobility. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 1175-1190.	0.7	58
93	Primal-dual active set methods for Allen-Cahn variational inequalities with nonlocal constraints. Numerical Methods for Partial Differential Equations, 2013, 29, 999-1030.	2.0	31
94	Nonlocal Allen-Cahn systems: analysis and a primal-dual active set method. IMA Journal of Numerical Analysis, 2013, 33, 1126-1155.	1.5	16
95	Linearized stability analysis of surface diffusion for hypersurfaces with triple lines. Hokkaido Mathematical Journal, 2013, 42, .	0.2	8
96	Kepler, Kristalle und Computer. Mathematik und numerische Simulationen helfen Kristallwachstum zu verstehen. Mitteilungen Der Deutschen Mathematiker-Vereinigung, 2012, 20, 219-228.	0.0	0
97	Numerical computations of faceted pattern formation in snow crystal growth. Physical Review E, 2012, 86, 011604.	0.8	48
98	THERMODYNAMICALLY CONSISTENT, FRAME INDIFFERENT DIFFUSE INTERFACE MODELS FOR INCOMPRESSIBLE TWO-PHASE FLOWS WITH DIFFERENT DENSITIES. Mathematical Models and Methods in Applied Sciences, 2012, 22, .	1.7	305
99	ELASTIC FLOW WITH JUNCTIONS: VARIATIONAL APPROXIMATION AND APPLICATIONS TO NONLINEAR SPLINES. Mathematical Models and Methods in Applied Sciences, 2012, 22, .	1.7	13
100	Constrained Optimization and Optimal Control for Partial Differential Equations. International Series of Numerical Mathematics, 2012, , .	1.0	24
101	Parametric approximation of isotropic and anisotropic elastic flow for closed and open curves. Numerische Mathematik, 2012, 120, 489-542.	0.9	35
102	Phase-field Approaches to Structural Topology Optimization. International Series of Numerical Mathematics, 2012, , 245-256.	1.0	35
103	Allen-Cahn and Cahn-Hilliard Variational Inequalities Solved with Optimization Techniques. International Series of Numerical Mathematics, 2012, , 21-35.	1.0	8
104	The approximation of planar curve evolutions by stable fully implicit finite element schemes that equidistribute. Numerical Methods for Partial Differential Equations, 2011, 27, 1-30.	2.0	44
105	Solving the Cahn-Hilliard variational inequality with a semi-smooth Newton method. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 931-954.	0.7	20
106	Thermodynamically consistent higher order phase field Navier-Stokes models with applications to biomembranes. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 371-389.	0.6	3
107	Grundzüge der Thermodynamik. Springer-Lehrbuch, 2011, , 77-131.	0.1	0
108	On stable parametric finite element methods for the Stefan problem and the Mullins-Sekerka problem with applications to dendritic growth. Journal of Computational Physics, 2010, 229, 6270-6299.	1.9	34

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109	An inhomogeneous, anisotropic, elastically modified Gibbs-Thomson law as singular limit of a diffuse interface model. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 519-520.	0.2	0
110	Motion by anisotropic mean curvature as sharp interface limit of an inhomogeneous and anisotropic Allen-Cahn equation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2010, 140, 673-706.	0.8	17
111	Numerical approximation of gradient flows for closed curves in \mathbb{R}^d . IMA Journal of Numerical Analysis, 2010, 30, 4-60.	1.5	41
112	Finite-element approximation of coupled surface and grain boundary motion with applications to thermal grooving and sintering. European Journal of Applied Mathematics, 2010, 21, 519-556.	1.4	27
113	Parametric approximation of surface clusters driven by isotropic and anisotropic surface energies. Interfaces and Free Boundaries, 2010, 12, 187-234.	0.2	25
114	Nonlinear stability of stationary solutions for curvature flow with triple junction. Hokkaido Mathematical Journal, 2009, 38, .	0.2	6
115	Mini-Workshop: Mathematics of Biological Membranes. Oberwolfach Reports, 2009, 5, 2293-2336.	0.0	2
116	A variational formulation of anisotropic geometric evolution equations in higher dimensions. Numerische Mathematik, 2008, 109, 1-44.	0.9	40
117	On the parametric finite element approximation of evolving hypersurfaces in \mathbb{R}^n . Journal of Computational Physics, 2008, 227, 4281-4307.	1.9	94
118	Nonlinear Stability of Stationary Solutions for Surface Diffusion with Boundary Conditions. SIAM Journal on Mathematical Analysis, 2008, 40, 491-515.	0.9	6
119	Parametric Approximation of Willmore Flow and Related Geometric Evolution Equations. SIAM Journal of Scientific Computing, 2008, 31, 225-253.	1.3	80
120	Phase-field model for multiphase systems with preserved volume fractions. Physical Review E, 2008, 78, 011604.	0.8	63
121	ALLEN-CAHN SYSTEMS WITH VOLUME CONSTRAINTS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1347-1381.	1.7	48
122	On sharp interface limits of Allen-Cahn/Hilliard variational inequalities. Discrete and Continuous Dynamical Systems - Series S, 2008, 1, 1-14.	0.6	5
123	Numerical approximation of anisotropic geometric evolution equations in the plane. IMA Journal of Numerical Analysis, 2007, 28, 292-330.	1.5	39
124	Stress- and diffusion-induced interface motion: Modelling and numerical simulations. European Journal of Applied Mathematics, 2007, 18, 631-657.	1.4	8
125	On the Variational Approximation of Combined Second and Fourth Order Geometric Evolution Equations. SIAM Journal of Scientific Computing, 2007, 29, 1006-1041.	1.3	63
126	A phase field model for the electromigration of intergranular voids. Interfaces and Free Boundaries, 2007, 9, 171-210.	0.2	23

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127	A parametric finite element method for fourth order geometric evolution equations. Journal of Computational Physics, 2007, 222, 441-467.	1.9	120
128	Second order phase field asymptotics for multi-component systems. Interfaces and Free Boundaries, 2006, 8, 131-157.	0.2	35
129	Surfactant Spreading on Thin Viscous Films: Nonnegative Solutions of A Coupled Degenerate System. SIAM Journal on Mathematical Analysis, 2006, 37, 2025-2048.	0.9	40
130	On Asymptotic Limits of Cahn-Hilliard Systems with Elastic Misfit. , 2006, , 87-111.		5
131	Numerical approximation of the Cahn-Larché equation. Numerische Mathematik, 2005, 100, 639-662.	0.9	19
132	On a Cahn-Hilliard model for phase separation with elastic misfit. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2005, 22, 165-185.	0.7	33
133	Finite element approximation of a phase field model for surface diffusion of voids in a stressed solid. Mathematics of Computation, 2005, 75, 7-42.	1.1	16
134	Linearized Stability Analysis of Stationary Solutions for Surface Diffusion with Boundary Conditions. SIAM Journal on Mathematical Analysis, 2005, 36, 1031-1056.	0.9	15
135	Multicomponent alloy solidification: Phase-field modeling and simulations. Physical Review E, 2005, 71, 041609.	0.8	294
136	Bi-directional diffusion induced grain boundary motion with triple junctions. Interfaces and Free Boundaries, 2004, 6, 271-294.	0.2	11
137	A Diffuse Interface Model for Alloys with Multiple Components and Phases. SIAM Journal on Applied Mathematics, 2004, 64, 775-799.	0.8	125
138	Exponential stability for a mirror-symmetric three phase boundary motion by surface diffusion. Mathematische Nachrichten, 2003, 257, 3-15.	0.4	8
139	Transient coarsening behaviour in the Cahn-Hilliard model. Acta Materialia, 2003, 51, 2823-2830.	3.8	32
140	Finite Element Approximation of Surfactant Spreading on a Thin Film. SIAM Journal on Numerical Analysis, 2003, 41, 1427-1464.	1.1	29
141	Modelling of microstructure formation and interface dynamics. Computational Materials Science, 2003, 26, 111-119.	1.4	15
142	Spinodal Decomposition in the Presence of Elastic Interactions. , 2003, , 603-635.		5
143	On Cahn-Hilliard systems with elasticity. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2003, 133, 307-331.	0.8	61
144	A Phase-field Model for the Solidification Process in Multicomponent Alloys. Lecture Notes in Computational Science and Engineering, 2003, , 142-149.	0.1	1

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145	A phase field model for continuous clustering on vector fields. IEEE Transactions on Visualization and Computer Graphics, 2001, 7, 230-241.	2.9	30
146	The Cahn-Hilliard equation with elasticity-finite element approximation and qualitative studies. Interfaces and Free Boundaries, 2001, 3, 101-118.	0.2	36
147	On fully practical finite element approximations of degenerate Cahn-Hilliard systems. ESAIM: Mathematical Modelling and Numerical Analysis, 2001, 35, 713-748.	0.8	57
148	Phase Boundaries in Alloys with Elastic Misfit. , 2001, , 281-289.		0
149	A continuous clustering method for vector fields. , 2000, , .		12
150	A MATHEMATICAL MODEL FOR GRAIN GROWTH IN THIN METALLIC FILMS. Mathematical Models and Methods in Applied Sciences, 2000, 10, 895-921.	1.7	20
151	Anisotropy in multi-phase systems: a phase field approach. Interfaces and Free Boundaries, 1999, 1, 175-198.	0.2	34
152	A MultiPhase Field Concept: Numerical Simulations of Moving Phase Boundaries and Multiple Junctions. SIAM Journal on Applied Mathematics, 1999, 60, 295-315.	0.8	186
153	Finite Element Approximation of the Cahn-Hilliard Equation with Degenerate Mobility. SIAM Journal on Numerical Analysis, 1999, 37, 286-318.	1.1	178
154	On a Fourth-Order Degenerate Parabolic Equation: Global Entropy Estimates, Existence, and Qualitative Behavior of Solutions. SIAM Journal on Mathematical Analysis, 1998, 29, 321-342.	0.9	158
155	Finite element approximation of a fourth order nonlinear degenerate parabolic equation. Numerische Mathematik, 1998, 80, 525-556.	0.9	65
156	On anisotropic order parameter models for multi-phase systems and their sharp interface limits. Physica D: Nonlinear Phenomena, 1998, 115, 87-108.	1.3	125
157	A multi-phase Mullins-Sekerka system: matched asymptotic expansions and an implicit time discretisation for the geometric evolution problem. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1998, 128, 481-506.	0.8	34
158	Diffusional phase transitions in multicomponent systems with a concentration dependent mobility matrix. Physica D: Nonlinear Phenomena, 1997, 109, 242-256.	1.3	65
159	On the Cahn-Hilliard Equation with Degenerate Mobility. SIAM Journal on Mathematical Analysis, 1996, 27, 404-423.	0.9	368
160	Traveling Wave Solutions as Dynamic Phase Transitions in Shape Memory Alloys. Journal of Differential Equations, 1995, 121, 203-231.	1.1	12
161	On the stable numerical approximation of two-phase flow with insoluble surfactant. ESAIM: Mathematical Modelling and Numerical Analysis, 0, , .	0.8	4
162	Stable variational approximations of boundary value problems for Willmore flow with Gaussian curvature. IMA Journal of Numerical Analysis, 0, , .	1.5	0

#	ARTICLE	IF	CITATIONS
163	Gradient flow dynamics of two-phase biomembranes: Sharp interface variational formulation and finite element approximation. SMAI Journal of Computational Mathematics, 0, 4, 151-195.	0.0	7
164	Stability analysis of phase boundary motion by surface diffusion with triple junction. , 0, , .		0