## Geoffrey B Mcfadden

# 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.

81 38 7,044 137 h-index g-index citations papers 7,634 5.46 142 3.2 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
137	Elimination of MHD current sheets by modifications to the plasma wall in a fixed boundary model. <i>Plasma Physics and Controlled Fusion</i> , <b>2020</b> , 62,	2	2
136	Effect of vacancy creation and annihilation on grain boundary motion. Acta Materialia, 2020, 185,	8.4	1
135	Model reduction of rigid-body molecular dynamics via generalized multipole potentials. <i>Physical Review E</i> , <b>2019</b> , 100, 063302	2.4	
134	Interdiffusion in the Ni-Re System: Evaluation of Uncertainties. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 750-763	1	7
133	Numerical analysis and simulation for a generalized planar Ginzburglandau equation in a circular geometry. <i>Communications in Mathematical Sciences</i> , <b>2017</b> , 15, 329-357	1	1
132	Analytical Derivation of the Sauer-Freise Flux Equation for Multicomponent Multiphase Diffusion Couples with Variable Partial Molar Volumes. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2016</b> , 37, 640-65	0 <sup>1</sup>	4
131	Predicted Role of NAD Utilization in the Control of Circadian Rhythms during DNA Damage Response. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004144	5	12
130	Equilibrium and stability of axisymmetric drops on a conical substrate under gravity. <i>Physics of Fluids</i> , <b>2015</b> , 27,	4.4	2
129	Sharp interface model of creep deformation in crystalline solids. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	2
128	On the Stability of Rotating Drops. <i>Journal of Research of the National Institute of Standards and Technology</i> , <b>2015</b> , 120, 74-101	1.3	9
127	Tokamak plasma high field side response to ann= 3 magnetic perturbation: a comparison of 3D equilibrium solutions from seven different codes. <i>Nuclear Fusion</i> , <b>2015</b> , 55, 063026	3.3	21
126	Surface morphologies due to grooves at moving grain boundaries having stress-driven fluxes. <i>Acta Materialia</i> , <b>2013</b> , 61, 7216-7226	8.4	3
125	Bubble motion and size variation during thermal migration with phase change. <i>Physics of Fluids</i> , <b>2013</b> , 25, 013302	4.4	O
124	Thin film dynamics on a prolate spheroid with application to the cornea. <i>Journal of Engineering Mathematics</i> , <b>2012</b> , 73, 121-138	1.2	39
123	A diffuse-interface model of reactive wetting with intermetallic formation. <i>Acta Materialia</i> , <b>2012</b> , 60, 3799-3814	8.4	21
122	Onset of morphological instability in two binary liquid layers. <i>Physics of Fluids</i> , <b>2011</b> , 23, 044102	4.4	1
121	The DEMO Quasisymmetric Stellarator. <i>Energies</i> , <b>2010</b> , 3, 277-284	3.1	1

### (2006-2010)

120	Convective instabilities during the solidification of an ideal ternary alloy in a mushy layer. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 647, 309-333	3.7	12
119	Predicted functions of MdmX in fine-tuning the response of p53 to DNA damage. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000665	5	7
118	Onset of convection in two layers of a binary liquid. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 647, 105-124	3.7	4
117	Self-similar grain size distribution in three dimensions: A stochastic treatment. <i>Acta Materialia</i> , <b>2010</b> , 58, 1037-1044	8.4	19
116	Bending of a Bimetallic Beam Due to the Kirkendall Effect. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2010</b> , 31, 6-14	1	6
115	The contribution of lipid layer movement to tear film thinning and breakup <b>2009</b> , 50, 2747-56		98
114	Onset of oscillatory convection in two liquid layers with phase change. <i>Physics of Fluids</i> , <b>2009</b> , 21, 0341	04.4	10
113	Thermodynamics of grain boundary premelting in alloys. I. Phase-field modeling. <i>Acta Materialia</i> , <b>2009</b> , 57, 3771-3785	8.4	88
112	Design of the DEMO Fusion Reactor Following ITER. <i>Journal of Research of the National Institute of Standards and Technology</i> , <b>2009</b> , 114, 229-36	1.3	6
111	Instability in pipe flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 428-30	11.5	10
110	General dynamical sharp-interface conditions for phase transformations in viscous heat-conducting fluids. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 581, 323-370	3.7	27
109	Computation of the Kirkendall velocity and displacement fields in a one-dimensional binary diffusion couple with a moving interface. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2007</b> , 463, 3347-3373	2.4	21
108	Onset of convection in two liquid layers with phase change. <i>Physics of Fluids</i> , <b>2007</b> , 19, 104109	4.4	14
107	Convective Instabilities in Two Liquid Layers. <i>Journal of Research of the National Institute of Standards and Technology</i> , <b>2007</b> , 112, 271-81	1.3	5
106	Numerical modeling of diffusion-induced deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 2701-2714	2.3	10
105	Axial flow effects on the stability of circular Couette flow with viscous heating. <i>Physics of Fluids</i> , <b>2006</b> , 18, 084106	4.4	
104	Phase field modeling of solidification under stress. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	38
103	The Effect of Contact Lines on the Rayleigh Instability with Anisotropic Surface Energy. <i>SIAM Journal on Applied Mathematics</i> , <b>2006</b> , 66, 1163-1187	1.8	20

102	Lateral deformation of diffusion couples. <i>Acta Materialia</i> , <b>2005</b> , 53, 1995-2008	8.4	18
101	Linear stability of cylindrical Couette flow in the convection regime. <i>Physics of Fluids</i> , <b>2005</b> , 17, 054112	4.4	5
100	Linear stability of spiral Poiseuille flow with a radial temperature gradient: Centrifugal buoyancy effects. <i>Physics of Fluids</i> , <b>2005</b> , 17, 114102	4.4	2
99	Phase field modeling of electrochemistry. I. Equilibrium. <i>Physical Review E</i> , <b>2004</b> , 69, 021603	2.4	117
98	Phase field modeling of electrochemistry. II. Kinetics. <i>Physical Review E</i> , <b>2004</b> , 69, 021604	2.4	86
97	Influence of a Catalytic Surfactant on Roughness Evolution During Film Growth. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, C538	3.9	27
96	The effect of anisotropic surface energy on the Rayleigh instability. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 2575-2598	2.4	40
95	A Mechanism for Brightening. Journal of the Electrochemical Society, 2003, 150, C591	3.9	34
94	Applications of morphological stability theory. <i>Journal of Crystal Growth</i> , <b>2002</b> , 237-239, 8-13	1.6	6
93	On the Gibbs adsorption equation and diffuse interface models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2002</b> , 458, 1129-1149	2.4	18
92	Phase-field models of solidification. <i>Contemporary Mathematics</i> , <b>2002</b> , 107-145	1.6	19
91	Separation of scales for growth of an alloy needle crystal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2001</b> , 32, 2669-2670	2.3	2
90	A phase-field model for highly anisotropic interfacial energy. <i>Physica D: Nonlinear Phenomena</i> , <b>2001</b> , 150, 91-103	3.3	189
89	A phase-field model with convection: sharp-interface asymptotics. <i>Physica D: Nonlinear Phenomena</i> , <b>2001</b> , 151, 305-331	3.3	50
88	Morphological stability of a binary alloy: thermodiffusion and temperature-dependent diffusivity. Journal of Crystal Growth, <b>2001</b> , 223, 565-572	1.6	12
87	Effect of flow due to density change on eutectic growth. <i>Journal of Crystal Growth</i> , <b>2001</b> , 224, 145-154	1.6	20
86	Electrical pulsing during directional solidification: analysis of transients by Laplace transform. Journal of Crystal Growth, <b>2000</b> , 216, 495-500	1.6	10
85	Microsegregation in Peltier interface demarcation. <i>Journal of Crystal Growth</i> , <b>2000</b> , 216, 483-494	1.6	13

84	The effect of oscillatory shear flow on step bunching. <i>Journal of Crystal Growth</i> , <b>2000</b> , 218, 434-446	1.6	19
83	Analytic solution for a non-axisymmetric isothermal dendrite. <i>Journal of Crystal Growth</i> , <b>2000</b> , 208, 726	-7:45	35
82	Effect of surface free energy anisotropy on dendrite tip shape. Acta Materialia, 2000, 48, 3177-3181	8.4	24
81	On the properties of <del>加</del> ternary diffusion couples. <i>Acta Materialia</i> , <b>2000</b> , 48, 481-492	8.4	30
80	Thin interface asymptotics for an energy/entropy approach to phase-field models with unequal conductivities. <i>Physica D: Nonlinear Phenomena</i> , <b>2000</b> , 144, 154-168	3.3	57
79	A phase-field model of solidification with convection. <i>Physica D: Nonlinear Phenomena</i> , <b>2000</b> , 135, 175-	1 <i>9</i> <sub>3</sub> 43	146
78	Steps, kinetic anisotropy, and long-wavelength instabilities in directional solidification. <i>Physical Review E</i> , <b>1999</b> , 59, 5629-40	2.4	
77	Selection mechanisms for multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1999</b> , 200, 276-286	1.6	12
76	Anisotropy of Interfaces in an Ordered HCP Binary Alloy. <i>Journal of Statistical Physics</i> , <b>1999</b> , 95, 1337-1.	3605	10
75	Step bunching: generalized kinetics. <i>Journal of Crystal Growth</i> , <b>1998</b> , 183, 669-682	1.6	45
75 74	Step bunching: generalized kinetics. <i>Journal of Crystal Growth</i> , <b>1998</b> , 183, 669-682  Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58		20
		5 1.6	
74	Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58	5 1.6	20
74	Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58  DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS. <i>Annual Review of Fluid Mechanics</i> , <b>1998</b> , 30, 139-	5 1.6 -1 <u>6</u> 5	1377
74 73 72	Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58  DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS. <i>Annual Review of Fluid Mechanics</i> , <b>1998</b> , 30, 139-  Theory of anisotropic growth rates in the ordering of an f.c.c. alloy. <i>Acta Materialia</i> , <b>1998</b> , 46, 1-12  Solute trapping and solute drag in a phase-field model of rapid solidification. <i>Physical Review E</i> ,	51.6 -1 <b>65</b> 8.4	20 1377 28
74 73 72 71	Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58  DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS. <i>Annual Review of Fluid Mechanics</i> , <b>1998</b> , 30, 139- Theory of anisotropic growth rates in the ordering of an f.c.c. alloy. <i>Acta Materialia</i> , <b>1998</b> , 46, 1-12  Solute trapping and solute drag in a phase-field model of rapid solidification. <i>Physical Review E</i> , <b>1998</b> , 58, 3436-3450	51.6 -1 <b>65</b> 8.4	20 1377 28 159
74 73 72 71 70	Multiple similarity solutions for solidification and melting. <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 573-58  DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS. <i>Annual Review of Fluid Mechanics</i> , <b>1998</b> , 30, 139- Theory of anisotropic growth rates in the ordering of an f.c.c. alloy. <i>Acta Materialia</i> , <b>1998</b> , 46, 1-12  Solute trapping and solute drag in a phase-field model of rapid solidification. <i>Physical Review E</i> , <b>1998</b> , 58, 3436-3450  A diffuse-interface description of internal waves in a near-critical fluid. <i>Physics of Fluids</i> , <b>1997</b> , 9, 1870-1	5 1.6 -165 8.4 -2.4	20 1377 28 159 47

66	Effects of shear flow and anisotropic kinetics on the morphological stability of a binary alloy.  Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 687-694	2.3	12
65	Some perspectives on the interpretation of proton NMR spin diffusion data in terms of polymer morphologies. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1996</b> , 7, 45-66	3.1	128
64	Step bunching on a vicinal face of a crystal growing in a flowing solution. <i>Journal of Crystal Growth</i> , <b>1996</b> , 169, 773-785	1.6	61
63	A Evector formulation of anisotropic phase-field models: 3D asymptotics. <i>European Journal of Applied Mathematics</i> , <b>1996</b> , 7, 367-381	1	51
62	Internal waves in xenon near the critical point. <i>Physics of Fluids</i> , <b>1996</b> , 8, 1464-1475	4.4	11
61	Recent developments in phase-field models of solidification. <i>Advances in Space Research</i> , <b>1995</b> , 16, 163-	·1 <del>2</del> 7. <b>2</b>	19
60	Stagnant film model of the effect of natural convection on the dendrite operating state. <i>Journal of Crystal Growth</i> , <b>1995</b> , 154, 370-376	1.6	35
59	Modification of morphological stability by Soret diffusion. <i>Journal of Crystal Growth</i> , <b>1995</b> , 147, 207-214	41.6	15
58	Lubrication theory for reactive spreading of a thin drop. <i>Physics of Fluids</i> , <b>1995</b> , 7, 1797-1810	4.4	46
57	On long-wave morphological instabilities in directional solidification. <i>European Journal of Applied Mathematics</i> , <b>1995</b> , 6, 639-652	1	4
56	Evaluating the zero creep conditions for thin film and multilayer thin film specimens. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 1987-1999		19
55	Morphological instability in phase-field models of solidification. <i>Physical Review E</i> , <b>1994</b> , 49, 4336-4352	2.4	36
54	Prediction of solute trapping at high solidification rates using a diffuse interface phase-field theory of alloy solidification. <i>Materials Science &amp; Discretials Science &amp; Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 178, 217-223	5.3	34
53	Morphological stability of a binary alloy during directional solidification: initial transient. <i>Journal of Crystal Growth</i> , <b>1994</b> , 140, 139-147	1.6	20
52	The effect of crystalline anisotropy on pattern formation in laser-melted thin silicon films. <i>Journal of Crystal Growth</i> , <b>1994</b> , 137, 355-374	1.6	4
51	Convective and Morphological Stability during Directional Solidification of the Succinonitrile-Acetone System. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>1994</b> , 99-112	0.5	1
50	Phase-field model of solute trapping during solidification. <i>Physical Review E</i> , <b>1993</b> , 47, 1893-1909	2.4	255
49	Asymptotic behavior of modulated Taylor <b>C</b> ouette flows with a crystalline inner cylinder. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1993</b> , 5, 1891-1903		4

#### [1990-1993]

48	Laplace <b>d</b> Equation and the Dirichlet-Neumann Map in Multiply Connected Domains. <i>Journal of Computational Physics</i> , <b>1993</b> , 105, 267-278	4.1	104
47	Gravitational modulation of thermosolutal convection during directional solidification. <i>Journal of Crystal Growth</i> , <b>1993</b> , 129, 70-80	1.6	8
46	Thermodynamically-consistent phase-field models for solidification. <i>Physica D: Nonlinear Phenomena</i> , <b>1993</b> , 69, 189-200	3.3	439
45	Phase-field models for anisotropic interfaces. <i>Physical Review E</i> , <b>1993</b> , 48, 2016-2024	2.4	270
44	The Rayleigh Instability for a Cylindrical Crystal-Melt Interface. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>1993</b> , 159-169	0.5	1
43	The effect of gravity modulation on thermosolutal convection in an infinite layer of fluid. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1992</b> , 4, 1176-1189		23
42	On the morphological development of second-phase particles in elastically-stressed solids. <i>Acta Metallurgica Et Materialia</i> , <b>1992</b> , 40, 2979-2992		130
41	Phase-field model for isothermal phase transitions in binary alloys. <i>Physical Review A</i> , <b>1992</b> , 45, 7424-7	4 <b>3:9</b> 6	688
40	The effect of compositionally-generated elastic stresses on morphological instability during directional solidification. <i>Acta Metallurgica Et Materialia</i> , <b>1992</b> , 40, 1599-1616		25
39	Effect of Modulated Taylor-Vortex Flows on Crystal-Melt Interfaces <b>1992</b> , 19-21		
38	Effect of Modulated Taylor-Couette Flows on Crystal-Melt Interfaces: Theory and Initial Experiments. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>1992</b> , 81-100	0.5	
37	Laser melting of thin silicon films. <i>Journal of Crystal Growth</i> , <b>1991</b> , 114, 446-466	1.6	9
36	Measurement and analysis of grain boundary grooving by volume diffusion. <i>Journal of Crystal Growth</i> , <b>1991</b> , 114, 467-480	1.6	27
36 35		1.6	27 43
	Growth, 1991, 114, 467-480  The effect of gravity modulation on solutal convection during directional solidification. Journal of		
35	Growth, 1991, 114, 467-480  The effect of gravity modulation on solutal convection during directional solidification. Journal of Crystal Growth, 1991, 110, 713-723  Convective stability in the RayleighBBard and directional solidification problems: High-frequency	1.6	43
35	Growth, 1991, 114, 467-480  The effect of gravity modulation on solutal convection during directional solidification. Journal of Crystal Growth, 1991, 110, 713-723  Convective stability in the RayleighBBard and directional solidification problems: High-frequency gravity modulation. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2847-2858	1.6	43

30	Directional solidification of a planar interface in the presence of a time-dependent electric current. Journal of Crystal Growth, <b>1990</b> , 102, 725-742	1.6	18
29	Effect of anisotropic thermal conductivity on the morphological stability of a binary alloy. <i>Journal of Crystal Growth</i> , <b>1990</b> , 100, 459-466	1.6	16
28	The effect of an electric field on the morphological stability of the crystal-melt interface of a binary alloy III. Weakly nonlinear theory. <i>Journal of Crystal Growth</i> , <b>1990</b> , 100, 78-88	1.6	6
27	Stabilization of Taylortouette flow due to time-periodic outer cylinder oscillation. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1990</b> , 2, 2147-2156		15
26	The effect of an electric field on the morphological stability of the crystal-melt interface of a binary alloy. <i>Journal of Crystal Growth</i> , <b>1989</b> , 94, 334-346	1.6	22
25	Buoyancy effects on morphological instability during directional solidification. <i>Journal of Crystal Growth</i> , <b>1989</b> , 94, 513-521	1.6	16
24	Numerical simulation of morphological development during ostwald ripening. <i>Acta Metallurgica</i> , <b>1988</b> , 36, 207-222		70
23	Hydrodynamic and free boundary instabilities during crystal growth: The effect of a plane stagnation flow. <i>Communications on Pure and Applied Mathematics</i> , <b>1988</b> , 41, 683-706	2.5	16
22	Effect of surface tension anisotropy on cellular morphologies. <i>Journal of Crystal Growth</i> , <b>1988</b> , 91, 180-7	19.8	32
21	The effect of an electric field on the morphological stability of the crystal-melt interface of a binary alloy. <i>Journal of Crystal Growth</i> , <b>1988</b> , 88, 1-15	1.6	26
20	Initial conditions implied by t12 solidification of a sphere with capillarity and interfacial kinetics. Journal of Crystal Growth, <b>1988</b> , 87, 415-420	1.6	5
19	Convective and Interfacial Instabilities During Solidification. NATO ASI Series Series B: Physics, 1988, 559	-569	
18	Thermosolutal convection during directional solidification. II. Flow transitions. <i>Physics of Fluids</i> , <b>1987</b> , 30, 659		22
17	Nonplanar interface morphologies during unidirectional solidification of a binary alloy: II. Three-dimensional computations. <i>Journal of Crystal Growth</i> , <b>1987</b> , 84, 371-388	1.6	52
16	Stability of a planar interface during solidification of a multicomponent system. <i>Journal of Crystal Growth</i> , <b>1987</b> , 82, 295-302	1.6	36
15	The effect of fluid flow due to the crystal-melt density change on the growth of a parabolic isothermal dendrite. <i>Journal of Crystal Growth</i> , <b>1986</b> , 74, 507-512	1.6	44
14	A boundary integral method for the simulation of two-dimensional particle coarsening. <i>Journal of Scientific Computing</i> , <b>1986</b> , 1, 117-144	2.3	20
13	Interaction of Flows with the Crystal-Melt Interface. Annual Review of Fluid Mechanics, 1986, 18, 307-33.	522	181

#### LIST OF PUBLICATIONS

12	Double-diffusive convection with sidewalls. <i>Physics of Fluids</i> , <b>1985</b> , 28, 2716-2722		14
11	Cellular Growth During Directional Solidification. Annual Review of Materials Research, 1985, 15, 119-14	5	106
10	Convective influence on the stability of a cylindrical solid I quid interface. <i>Journal of Fluid Mechanics</i> , <b>1985</b> , 151, 121	3.7	32
9	Asymmetric instabilities in buoyancy-driven flow in a tall vertical annulus. <i>Physics of Fluids</i> , <b>1984</b> , 27, 135	59	26
8	Nonplanar interface morphologies during unidirectional solidification of a binary alloy. <i>Physica D: Nonlinear Phenomena</i> , <b>1984</b> , 12, 253-261	3.3	23
7	Effect of a forced Couette flow on coupled convective and morphological instabilities during unidirectional solidification. <i>Journal of Crystal Growth</i> , <b>1984</b> , 69, 15-22	1.6	64
6	The effect of anisotropic crystal-melt surface tension on grain boundary groove morphology. Journal of Crystal Growth, <b>1984</b> , 67, 425-440	1.6	74
5	Coupled convective instabilities at crystal-melt interfaces. <i>Journal of Crystal Growth</i> , <b>1984</b> , 66, 514-524	1.6	17
4	Morphological stability in the presence of fluid flow in the melt. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1984</b> , 15, 2117-2124		22
3	Thermosolutal convection during directional solidification. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1984</b> , 15, 2125-2137		54
2	Design of supercritical swept wings. AIAA Journal, 1982, 20, 289-291	2.1	54
1	Computation of complex solidification morphologies using a phase-field model		4