Nathalie Mangelinck-NoÃ«l

List of Publications by Year
in descending order

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143 papers	3,085 citations	186265 28 h-index	214800 47 g-index
148 all docs	148 docs citations	148 times ranked	1601 citing authors

#	Article	IF	Citations
1	Direct synthesis of large-area Al-doped graphene by chemical vapor deposition: Advancing the substitutionally doped graphene family. Nano Research, 2022, 15, 1310-1318.	10.4	18
2	Dualâ€Salt Electrolyte Additives Enabled Stable Lithium Metal Anode/Lithiumâ€“Manganeseâ€Rich Cathode Batteries. Advanced Energy and Sustainability Research, 2022, 3, 2100140.	5.8	9
3	Quasistatic Equilibrium Chemical Vapor Deposition of Graphene. Advanced Materials Interfaces, 2022, 9, 2101500.	3.7	4
4	Diffusion coefficients of carbon, oxygen and nitrogen in silicon melt. Journal of Crystal Growth, 2022, 580, 126476.	1.5	4
5	Advanced red phosphorus/carbon composites with practical application potential for sodium ion batteries. Energy Storage Materials, 2022, 46, 20-28.	18.0	13
6	Recent Advances in Boronâ€•and Nitrogenâ€Doped Carbonâ€Based Materials and Their Various Applications. Advanced Materials Interfaces, 2022, 9, .	3.7	48
7	Influence of Solidification Parameters on the Amount of Eutectic and Secondary Arm Spacing of Alâ€“7wt% Si Alloy Solidified under Microgravity. Crystals, 2022, 12, 414.	2.2	4
8	Concurrent model for sharp and progressive columnar to equiaxed transitions validated by directional solidification experiments processed in microgravity conditions. Computational Materials Science, 2022, 210, 111436.	3.0	6
9	Enhanced performance of Si-based Li-ion batteries through elastic cushioning with hollow graphene shells. Science China Materials, 2022, 65, 2343-2353.	6.3	2
10	In-situ observations of novel single-atom thick 2D tin membranes embedded in graphene. Nano Research, 2021, 14, 747-753.	10.4	13
11	Effect of Argon Flow on Oxygen and Carbon Coupled Transport in an Industrial Directional Solidification Furnace for Crystalline Silicon Ingots. Crystals, 2021, 11, 421.	2.2	11
12	Dynamic observation of dislocation evolution and interaction with twin boundaries in silicon crystal growth using in â€“ situ synchrotron X-ray diffraction imaging. Acta Materialia, 2021, 210, 116819.	7.9	14
13	Revealing the Various Electrochemical Behaviors of Sn₄P₃ Binary Alloy Anodes in Alkali Metal Ion Batteries. Advanced Functional Materials, 2021, 31, 2102047.	14.9	25
14	A general approach for calculating meltâ€“solid impurity segregation coefficients based on thermodynamic integration. Journal of Applied Physics, 2021, 130, .	2.5	4
15	On the Catalytic Activity of Sn Monomers and Dimers at Graphene Edges and the Synchronized Edge Dependence of Diffusing Atoms in Sn Dimers. Advanced Functional Materials, 2021, 31, 2104340.	14.9	4
16	Analysis of gravity effects during binary alloy directional solidification by comparison of microgravity and Earth experiments with in situ observation. European Physical Journal E, 2021, 44, 98.	1.6	5
17	In Situ Fabrication of Freestanding Singleâ€Atomâ€Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. Advanced Science, 2021, 8, e2100619.	11.2	27
18	Numerical simulation of particle growth process in a polysilicon fluidized bed reactor. Particulate Science and Technology, 2020, 38, 261-270.	2.1	5

#	Article	IF	Citations
19	Control of Melt Flow and Oxygen Distribution Using Traveling Magnetic Field during Directional Solidification of Silicon Ingots. Silicon, 2020, 12, 2395-2404.	3.3	9
20	Investigation of subgrains in directionally solidified cast mono-seeded silicon and their interactions with twin boundaries. Solar Energy Materials and Solar Cells, 2020, 218, 110817.	6.2	6
21	X-ray Based in Situ Investigation of Silicon Growth Mechanism Dynamicsâ€"Application to Grain and Defect Formation. Crystals, 2020, 10, 555.	2.2	7
22	3D cellular automaton modelling of silicon crystallization including grains in twin relationship. IOP Conference Series: Materials Science and Engineering, 2020, 861, 012052.	0.6	1
23	In Situ Formation of Free-Standing Single-Atom-Thick Antiferromagnetic Chromium Membranes. Nano Letters, 2020, 20, 4354-4361.	9.1	22
24	Combined growth of Î±-Al and Bi in a Al-Bi-Cu monotectic alloy analyzed by in situ X-ray radiography. Journal of Crystal Growth, 2020, 536, 125592.	1.5	4
25	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. Advanced Materials Interfaces, 2020, 7, 1902024.	3.7	27
26	Three-dimensional cellular automaton modeling of silicon crystallization with grains in twin relationships. Acta Materialia, 2020, 191, 230-244.	7.9	9
27	Impact of solute flow during directional solidification of a Ni-based alloy: In-situ and real-time X-radiography. Acta Materialia, 2020, 194, 68-79.	7.9	45
28	Modification of the microstructure by rotating magnetic field during the solidification of Al-7 wt.% Si alloy under microgravity. Journal of Alloys and Compounds, 2020, 836, 155458.	5.5	18
29	Role of Impurities in Silicon Solidification and Electrical Properties Studied by Complementary In Situ and Ex Situ Methods. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900298.	1.8	6
30	On the Deformation of Dendrites During Directional Solidification of a Nickel-Based Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5234-5241.	2.2	29
31	Strain building and correlation with grain nucleation during silicon growth. Acta Materialia, 2019, 177, 141-150.	7.9	12
32	Morphotropic phase boundary-like properties in a ferroelectric-paraelectric nanocomposite. Journal of Applied Physics, 2019, 126, .	2.5	4
33	Cellular-to-Dendritic and Dendritic-to-Cellular Morphological Transitions in a Ternary Al-Mg-Si Alloy. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012018.	0.6	11
34	Numerical simulation of bubbling fluidization using a local bubbleâ€structureâ€dependent drag model. Canadian Journal of Chemical Engineering, 2019, 97, 1741-1755.	1.7	3
35	Random angle grain boundary formation and evolution dynamics during Si directional solidification. Acta Materialia, 2019, 171, 253-260.	7.9	6
36	Carbon solubility in liquid silicon: A computational analysis across empirical potentials. Journal of Chemical Physics, 2019, 150, 144503.	3.0	7

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37	Comparative study of directional solidification of Al-7â€¯wt% Si alloys in Space and on Earth: Effects of gravity on dendrite growth and Columnar-to-equiaxed transition. Journal of Crystal Growth, 2019, 513, 20-29.	1.5	24
38	Simultaneous X-ray radiography and diffraction topography imaging applied to silicon for defect analysis during melting and crystallization. Journal of Applied Crystallography, 2019, 52, 1312-1320.	4.5	10
39	Simulation of grain evolution in solidification of silicon on meso-scopic scale. Computational Materials Science, 2019, 159, 432-439.	3.0	2
40	Heterogeneous twinning during directional solidification of multi-crystalline silicon. Journal of Crystal Growth, 2019, 508, 42-49.	1.5	5
41	Effect of solidification conditions and surface pores on the microstructure and columnar-to-equiaxed transition in solidification under microgravity. Journal of Alloys and Compounds, 2018, 749, 344-354.	5.5	17
42	Real-time prediction of crystal/melt interface shape during Czochralski crystal growth. CrystEngComm, 2018, 20, 6925-6931.	2.6	10
43	In Situ Imaging of Dislocation Expansion in FZâ€Si Seeds During Temperature Ramp Heating Process. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700758.	1.8	5
44	Columnar and Equiaxed Solidification of Al-7Âwt.% Si Alloys in Reduced Gravity in the Framework of the CETSOL Project. Jom, 2017, 69, 1269-1279.	1.9	17
45	Growth undercooling in multi-crystalline pure silicon and in silicon containing light impurities (C) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.5	16
46	Optimisation of data locality in energy calculations for large-scale molecular dynamics simulations. Molecular Simulation, 2017, 43, 284-290.	2.0	2
47	{1 1 1} facet growth laws and grain competition during silicon crystallization. Journal of Crystal Growth, 2017, 479, 1-8.	1.5	27
48	Atomistic simulations of carbon diffusion and segregation in liquid silicon. Journal of Applied Physics, 2017, 122, .	2.5	10
49	The effect of initial growth interface on the grain structure in HPMC-Si ingot. , 2017, , .		0
50	Impact of the initial growth interface on the grain structure in HPMC-Si ingot. , 2017, , .		1
51	Influence of Crucible Thermal Conductivity on Crystal Growth in an Industrial Directional Solidification Process for Silicon Ingots. International Journal of Photoenergy, 2016, 2016, 1-9.	2.5	3
52	CAFE simulation of columnar-to-equiaxed transition in Al-7wt%Si alloys directionally solidified under microgravity. IOP Conference Series: Materials Science and Engineering, 2016, 117, 012009.	0.6	1
53	In situ investigation of the structural defect generation and evolution during the directional solidification of ã€˜110ã€‰ seeded growth Si. Acta Materialia, 2016, 115, 210-223.	7.9	54
54	Effect of Crucible Location on Heat Transfer in Sapphire Crystal Growth by Heat Exchanger Method. Heat Transfer Engineering, 2016, 37, 332-340.	1.9	9

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55	A piecewise lookup table for calculating nonbonded pairwise atomic interactions. Journal of Molecular Modeling, 2015, 21, 288.	1.8	2
56	Control of the Gas Flow in an Industrial Directional Solidification Furnace for Production of High Purity Multicrystalline Silicon Ingots. International Journal of Photoenergy, 2015, 2015, 1-10.	2.5	12
57	Cooling thermal parameters, microstructure, segregation and hardness in directionally solidified Alâ€“Sn-(Si;Cu) alloys. Materials & Design, 2015, 72, 31-42.	5.1	50
58	On the impact of twinning on the formation of the grain structure of multi-crystalline silicon for photovoltaic applications during directional solidification. Journal of Crystal Growth, 2015, 418, 38-44.	1.5	29
59	Microstructural development and mechanical properties of a near-eutectic directionally solidified Snâ€“Bi solder alloy. Materials Characterization, 2015, 107, 43-53.	4.4	53
60	High cooling rate cells, dendrites, microstructural spacings and microhardness in a directionally solidified Alâ€“Mgâ€“Si alloy. Journal of Alloys and Compounds, 2015, 636, 145-149.	5.5	48
61	Simulation of directional solidification of refined Alâ€“7 wt.%Si alloys â€“ Comparison with benchmark microgravity experiments. Acta Materialia, 2015, 93, 24-37.	7.9	22
62	Motion of equiaxed grains during directional solidification under static magnetic field. Journal of Crystal Growth, 2015, 417, 25-30.	1.5	14
63	Fast growth of thin multiâ€crystalline silicon ribbons by the RST method. Crystal Research and Technology, 2015, 50, 101-114.	1.3	8
64	Distribution and propagation of dislocation defects in quasi-single crystalline silicon ingots cast by the directional solidification method. Solar Energy Materials and Solar Cells, 2015, 132, 1-5.	6.2	19
65	Coupled Cellular Automaton (CA) â€“ Finite Element (FE) Modeling of Directional Solidification of Al-3.5 wt% Ni Alloy: A Comparison with X-ray Synchrotron Observations. ISIJ International, 2014, 54, 392-400.	1.4	12
66	Thermoelectric magnetic flows in melt during directional solidification. Applied Physics Letters, 2014, 104, .	3.3	29
67	Movable partition designed for the seedâ€assisted silicon ingot casting in directional solidification process. Crystal Research and Technology, 2014, 49, 405-413.	1.3	19
68	Effect of a weak transverse magnetic field on solidification structure during directional solidification. Acta Materialia, 2014, 64, 367-381.	7.9	67
69	Iron contamination in cast quasi-single crystalline silicon ingots. Journal of Applied Physics, 2014, 115, 174903.	2.5	10
70	In Situ Investigation of Dendrite Deformation During Upward Solidification of Al-7wt.%Si. Jom, 2014, 66, 1408-1414.	1.9	38
71	Structures in directionally solidified Alâ€“7wt.% Si alloys: Benchmark experiments under microgravity. Acta Materialia, 2014, 64, 253-265.	7.9	41
72	Columnar-to-Equiaxed Transition in Solidification Processing of AlSi7 Alloys in Microgravity the CETSOL Project. Materials Science Forum, 2014, 790-791, 12-21.	0.3	10

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73	Origins of misorientation defects in single crystal castings: A time resolved in situ synchrotron X-ray radiography study. MATEC Web of Conferences, 2014, 14, 05003.	0.2	14
74	A nucleation-growth model of nanowires produced by the vapor-liquid-solid process. Journal of Applied Physics, 2013, 114, 064302.	2.5	6
75	Microstructure and mechanical properties of Snâ€“Bi, Snâ€“Ag and Snâ€“Zn lead-free solder alloys. Journal of Alloys and Compounds, 2013, 572, 97-106.	5.5	164
76	Twinning occurrence and grain competition in multi-crystalline silicon during solidification. Comptes Rendus Physique, 2013, 14, 141-148.	0.9	30
77	Modification of liquid/solid interface shape in directionally solidifying Alâ€“Cu alloys by a transverse magnetic field. Journal of Materials Science, 2013, 48, 213-219.	3.7	27
78	Investigation of grain boundary grooves at the solidâ€“liquid interface during directional solidification of multi-crystalline silicon: in situ characterization by X-ray imaging. Journal of Crystal Growth, 2013, 377, 203-211.	1.5	36
79	Influence of natural convection during upward directional solidification: A comparison between in situ X-ray radiography and direct simulation of the grain structure. Acta Materialia, 2013, 61, 4765-4777.	7.9	46
80	Distributions of structures and solute in directionally solidified Al â€“ 7 wt % Si. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012017.	0.6	6
81	Direct simulation of a directional solidification experiment observedin situand real-time using X-ray imaging. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012077.	0.6	12
82	A method to determine the active particle nucleation undercooling distribution in a refined alloy. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012090.	0.6	8
83	In situand real-time analysis of the growth and interaction of equiaxed grains by synchrotron X- ray radiography. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012089.	0.6	6
84	Observation of the initiation and propagation of solidification cracks by means ofin situsynchrotron X-ray radiography. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012040.	0.6	4
85	Thermoelectric magnetic force acting on the solid during directional solidification under a static magnetic field. Applied Physics Letters, 2012, 101, .	3.3	41
86	Real Time Observation of the Directional Solidification of Multicrystalline Silicon: X-ray Imaging Characterization. Energy Procedia, 2012, 27, 82-87.	1.8	26
87	CET during the solidification of refined Al-3.5wt%Ni alloys and characterization of the subsequent grain structure. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012011.	0.6	7
88	Dendrite Bending during Directional Solidification. , 2012, , .		7
89	Investigation of columnar-to-equiaxed transition in solidification processing of AlSi alloys in microgravity â€“ The CETSOL project. Journal of Physics: Conference Series, 2011, 327, 012003.	0.4	17
90	Analysis by synchrotron X-ray radiography of convection effects on the dynamic evolution of the solidâ€“liquid interface and on solute distribution during the initial transient of solidification. Acta Materialia, 2011, 59, 4356-4365.	7.9	100

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91	Computer modeling of crystal growth of silicon for solar cells. Frontiers in Energy, 2011, 5, 305.	2.3	0
92	In situ analysis of the influence of convection during the initial transient of planar solidification. Journal of Crystal Growth, 2011, 318, 1134-1138.	1.5	17
93	<i>In Situ</i> Synchrotron X-ray Characterization of Microstructure Formation in Solidification Processing of Al-based Metallic Alloys. ISIJ International, 2010, 50, 1929-1935.	1.4	18
94	Application of synchrotron X-ray radiography to the study of dendritic equiaxed microstructure formation in Alâ€“Cu alloys. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 394-398.	1.4	27
95	Influence of Forced/Natural Convection on Segregation During the Directional Solidification of Al-Based Binary Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 193-208.	2.1	65
96	Microstructural development during transient directional solidification of hypermonotectic Alâ€“Bi alloys. Materials & Design, 2010, 31, 4584-4591.	5.1	67
97	Alâ€“Fe hypoeutectic alloys directionally solidified under steady-state and unsteady-state conditions. Journal of Alloys and Compounds, 2010, 504, 205-210.	5.5	23
98	Cellular pattern dynamics on a concave interface in three-dimensional alloy solidification. Physical Review E, 2009, 79, 011605.	2.1	14
99	Fragmentation in an Alâ€“7 wt-%Si alloy studied in real time by X-ray synchrotron techniques. International Journal of Cast Metals Research, 2009, 22, 208-211.	1.0	28
100	Numerical modelling of columnar to equiaxed transition â€“ application to microgravity experiments. International Journal of Cast Metals Research, 2009, 22, 34-38.	1.0	8
101	Directional solidification processing on CET in Al-based alloys. Metals and Materials International, 2009, 15, 21-26.	3.4	5
102	In situ analysis of dendritic equiaxed microstructure formation in Al-Cu alloys by synchrotron X-ray radiography. Transactions of the Indian Institute of Metals, 2009, 62, 427-431.	1.5	22
103	Interferometric method for the analysis of dendrite growth and shape in 3D extended patterns in transparent alloys. Transactions of the Indian Institute of Metals, 2009, 62, 455-460.	1.5	13
104	Modeling and simulation of Si crystal growth from melt. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 645-652.	0.8	1
105	Numerical Investigation of the Influence of Material Property of a Crucible on Interface Shape in a Unidirectional Solidification Process. Crystal Growth and Design, 2009, 9, 267-272.	3.0	20
106	Determination of the average nucleation undercooling of primary Al-phase on refining particles from Alâ€“5.0wt% Tiâ€“1.0wt% B in Al-based alloys using DSC. Journal of Alloys and Compounds, 2009, 477, 622-627.	5.5	24
107	Columnar to equiaxed transition during directional solidification in refined Al-based alloys. Journal of Alloys and Compounds, 2009, 484, 739-746.	5.5	34
108	Comparative study of the influence of natural convection on directional solidification of Alâ€“3.5wt% Ni and Alâ€“7wt% Si alloys. Advances in Space Research, 2008, 41, 2112-2117.	2.6	19

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109	In-Situ and Real-Time Analysis of the Formation of Strains and Microstructure Defects during Solidification of Al-3.5ÂWt Pct Ni Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 865-874.	2.2	93
110	In situ and real-time analysis of TGZM phenomena by synchrotron X-ray radiography. Journal of Crystal Growth, 2008, 310, 2906-2914.	1.5	81
111	Modelling of the transition from a planar faceted front to equiaxed growth: Application to photovoltaic polycrystalline silicon. Journal of Crystal Growth, 2008, 311, 20-25.	1.5	26
112	The Samson phase, Î²-Mg2Al3, revisited. Zeitschrift FÃ¼r Kristallographie, 2007, 222, .	1.1	118
113	In situ study of quasicrystal growth by synchrotron X-ray imaging. Philosophical Magazine, 2007, 87, 3079-3087.	1.6	9
114	Control of melt convection by a travelling magnetic field during the directional solidification of Alâ€“Ni alloys. Comptes Rendus - Mecanique, 2007, 335, 330-335.	2.1	28
115	Realâ€time and in situ solidification of Alâ€based alloys investigated by synchrotron radiation: a unique experimental setâ€up combining radiography and topography techniques. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2721-2727.	1.8	23
116	In-Situ and Real-Time Investigation of Columnar-to-Equiaxed Transition in Metallic Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1458-1464.	2.2	81
117	Columnar-to-Equiaxed Transition in SOLidification Processing (CETSOL): A Project of the European Space Agency (ESA) - Microgravity Applications Promotion (MAP) Programme. Materials Science Forum, 2006, 508, 393-404.	0.3	6
118	Effects of the Interface Curvature and Dendrite Orientation in Directional Solidification of Bulk Transparent Alloys. Materials Science Forum, 2006, 508, 337-342.	0.3	3
119	In Situ and Real Time Investigation of Directional Solidification of Al - Ni Alloys by Synchrotron Imaging. Materials Science Forum, 2006, 508, 75-80.	0.3	3
120	In situobservation of pore evolution during melting and solidification of Alâ€“Pdâ€“Mn quasicrystals by synchrotron X-ray radiography. Philosophical Magazine, 2006, 86, 335-340.	1.6	8
121	Studies by In Situ and Real-Time Synchrotron Imaging of Interface Dynamics and Defect Formation in Solidification Processing. Advances in Science and Technology, 2006, 46, 1.	0.2	1
122	Effect of Travelling Magnetic Field on the Directional Solidification of Refined Al-3.5 wt%Ni Alloys. Materials Science Forum, 2006, 508, 221-226.	0.3	3
123	In situand real-time probing of quasicrystal solidification dynamics by synchrotron imaging. Physical Review E, 2006, 74, 031605.	2.1	17
124	Publisher's Note:In situand real-time probing of quasicrystal solidification dynamics by synchrotron imaging [Phys. Rev. E74, 031605 (2006)]. Physical Review E, 2006, 74, .	2.1	1
125	DECLIC Scientific Program - Directional Solidification. , 2006, , .		0
126	Necessity of investigating microstructure formation during directional solidification of transparent alloys in 3D. Advances in Space Research, 2005, 36, 80-85.	2.6	22

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127	Investigation of columnarâ€“equiaxed transition and equiaxed growth of aluminium based alloys by X-ray radiography. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 384-388.	5.6	98
128	Application of synchrotron X-ray imaging to the study of directional solidification of aluminium-based alloys. Journal of Crystal Growth, 2005, 275, 201-208.	1.5	90
129	Directional solidification of refined Alâ€“3.5wt% Ni under natural convection and under a forced flow driven by a travelling magnetic field. Journal of Crystal Growth, 2005, 275, e1501-e1505.	1.5	16
130	Effects of the interface curvature on cellular and dendritic microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 296-301.	5.6	17
131	In situ characterization of interface-microstructure dynamics in 3D-Directional Solidification of model transparent alloys. Microgravity Science and Technology, 2005, 16, 133-137.	1.4	3
132	Grain size reduction by electromagnetic stirring inside gold alloys. EPJ Applied Physics, 2005, 30, 215-222.	0.7	2
133	In situanalysis of equiaxed growth of aluminiumâ€“nickel alloys by x-ray radiography at ESRF. Journal Physics D: Applied Physics, 2005, 38, A28-A32.	2.8	49
134	Optical device dedicated to the non-destructive observation and characterization of the solidification of bulk transparent alloysin situand in real time. Measurement Science and Technology, 2000, 11, 66-73.	2.6	12
135	Influence of grain boundaries and natural convection on microstructure formation in cellular directional solidification of dilute succinonitrile alloys in a cylinder. Journal of Crystal Growth, 1998, 187, 516-526.	1.5	28
136	Cellular structures in three-dimensional directional solidification: Simulation and analysis. Physical Review E, 1998, 57, 2849-2861.	2.1	19
137	In situ and real-time observation of the formation and dynamics of a cellular interface in a succinonitrile-0.5 wt% acetone alloy directionally solidified in a cylinder. Journal of Crystal Growth, 1997, 181, 117-132.	1.5	61
138	CET by Fragmentation during the Solidification under Natural and Forced Convection of Non-Refined Al-Based Alloys. Materials Science Forum, 0, 649, 343-348.	0.3	6
139	Modeling of Heat and Solute Interactions upon Grain Structure Solidification. Materials Science Forum, 0, 649, 189-198.	0.3	9
140	SEM Characterization of Al₃Ni Intermetallics and its Influence on Mechanical Properties of Directionally Solidified Hypoeutectic Al-Ni Alloys. Materials Science Forum, 0, 636-637, 465-470.	0.3	3
141	Measurement of Solute Profiles by Means of Synchrotron X-Ray Radiography during Directional Solidification of Al-4 wt% Cu Alloys. Materials Science Forum, 0, 649, 331-336.	0.3	37
142	A bubble structure dependent drag model for CFD simulation of biâ€disperse gasâ€solid flow in bubbling fluidizations. Canadian Journal of Chemical Engineering, 0, , .	1.7	1
143	Dislocation dynamics in monocrystalline Si near the melting point studied in situ by Xâ€ray Bragg diffraction imaging. Physica Status Solidi (B): Basic Research, 0, , .	1.5	1