

# Chung Wen Lan

## 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.

209  
papers

3,882  
citations

33  
h-index

47  
g-index

221  
ext. papers

4,140  
ext. citations

2.6  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
209	In situ visualization of traveling solvent growth of thin Si <sub>0.7</sub> Ge <sub>0.3</sub> crystals. <i>Journal of Crystal Growth</i> , <b>2022</b> , 581, 126511	1.6	
208	Growth of polycrystalline Si <sub>0.7</sub> Ge <sub>0.3</sub> on various substrates for thermoelectric applications. <i>Journal of Crystal Growth</i> , <b>2022</b> , 585, 126599	1.6	
207	Copper Assisted Inverted Pyramids Texturization of Monocrystalline Silicon in a Nitrogen Bubbling Bath for Highly Efficient Light Trapping. <i>Silicon</i> , <b>2021</b> , 13, 3121-3129	2.4	1
206	In situ visualization of silicon wafer casting on silicon carbide as low nucleation undercooling substrate. <i>Journal of Crystal Growth</i> , <b>2021</b> , 566-567, 126142	1.6	
205	In situ observation and temperature profile study of silicon Thin-sheet growth on quartz and silicon nitride substrates. <i>Journal of Crystal Growth</i> , <b>2020</b> , 552, 125938	1.6	2
204	Green scalable vapor texture etching for multicrystalline silicon wafers. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2020</b> , 28, 993-1000	6.8	3
203	Making reusable reaction-bonded silicon nitride crucibles for silicon casting from kerf-loss silicon waste. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 146-152	2	3
202	In situ observation of the solidification interface and grain boundary development of two silicon seeds with simultaneous measurement of temperature profile and undercooling. <i>Journal of Crystal Growth</i> , <b>2020</b> , 532, 125428	1.6	3
201	Three-dimensional phase field modelling of twin nucleation during directional solidification of multi-crystalline silicon. <i>Journal of Crystal Growth</i> , <b>2019</b> , 520, 33-41	1.6	2
200	Silicon ingot casting using reusable silicon nitride crucibles made from diamond wire sawing kerf-loss silicon. <i>Journal of Crystal Growth</i> , <b>2019</b> , 525, 125184	1.6	11
199	Growth of Multicrystalline Silicon for Solar Cells: The High-Performance Casting Method <b>2019</b> , 1-17		
198	Growth of Multicrystalline Silicon for Solar Cells: The High-Performance Casting Method <b>2019</b> , 175-191		2
197	Heterogeneous twinning during directional solidification of multi-crystalline silicon. <i>Journal of Crystal Growth</i> , <b>2019</b> , 508, 42-49	1.6	4
196	Recycling and reuse of kerf-loss silicon from diamond wire sawing for photovoltaic industry. <i>Waste Management</i> , <b>2019</b> , 84, 204-210	8.6	40
195	Solar silicon <b>2019</b> , 57-87		
194	Possible Twinning Operations during Directional Solidification of Multicrystalline Silicon. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2518-2524	3.5	8
193	Three dimensional modelling of grain boundary interaction and evolution during directional solidification of multi-crystalline silicon. <i>Journal of Crystal Growth</i> , <b>2018</b> , 485, 8-18	1.6	5

192	In situ observation of crystal/melt interface and infrared measurement of temperature profile during directional solidification of silicon wafer. <i>Journal of Crystal Growth</i> , <b>2018</b> , 499, 90-97	1.6	4
191	Growth of Multicrystalline Silicon: The High-Performance Casting Method <b>2018</b> , 1-17		
190	Twinning mechanism at three-grain tri-junction during directional solidification of multi-crystalline silicon. <i>Acta Materialia</i> , <b>2018</b> , 144, 41-50	8.4	8
189	Understanding the facet formation mechanisms of Si thin-film solidification through three-dimensional phase-field modeling. <i>Journal of Crystal Growth</i> , <b>2017</b> , 474, 166-170	1.6	5
188	Control of ingot quality and solar cell appearance of cast mono-like silicon by using seed partitions. <i>Journal of Crystal Growth</i> , <b>2017</b> , 475, 136-143	1.6	20
187	Phase field modeling of grain structure evolution during directional solidification of multi-crystalline silicon sheet. <i>Journal of Crystal Growth</i> , <b>2017</b> , 475, 150-157	1.6	4
186	Revisiting the twinning mechanism in directional solidification of multi-crystalline silicon sheet. <i>Acta Materialia</i> , <b>2017</b> , 131, 1-10	8.4	29
185	N-type high-performance multicrystalline and mono-like silicon wafers with lifetimes above 2 ms. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 08MB10	1.4	7
184	A multilayer nucleation model for twinning during directional solidification of multi-crystalline silicon. <i>Journal of Crystal Growth</i> , <b>2017</b> , 478, 47-51	1.6	3
183	The emergence of high-performance multi-crystalline silicon in photovoltaics. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 17-23	1.6	57
182	Growth of Multicrystalline Silicon: The High-Performance Casting Method <b>2017</b> , 1-17		
181	Infrared measurement of undercooling during silicon solidification on bare and Si <sub>3</sub> N <sub>4</sub> coated quartz substrates. <i>Journal of Crystal Growth</i> , <b>2016</b> , 453, 130-137	1.6	5
180	Phase-field modeling of twin-related faceted dendrite growth of silicon. <i>Acta Materialia</i> , <b>2016</b> , 115, 324-332	8.4	16
179	Engineering silicon crystals for photovoltaics. <i>CrystEngComm</i> , <b>2016</b> , 18, 1474-1485	3.3	43
178	Evolution of grain structures during directional solidification of silicon wafers. <i>Journal of Crystal Growth</i> , <b>2016</b> , 439, 40-46	1.6	26
177	Effect of Seed Arrangements on the Quality of n-Type Monolike Silicon Grown by Directional Solidification. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 6641-6647	3.5	19
176	Numerical simulations of flow and mass transfer during potassium dihydrogen phosphate single crystal growth via the three-dimensional motion growth method. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 99, 65-75	4.9	9
175	On the growth orientation of twin-related faceted dendrites. <i>Scripta Materialia</i> , <b>2016</b> , 125, 54-57	5.6	4

174	Minority lifetime degradation of silicon wafers after electric zone melting. <i>Journal of Crystal Growth</i> , <b>2015</b> , 420, 74-79	1.6	3
173	Comparison of defect formations in solar silicon growth from small random and large oriented seeds. <i>Journal of Crystal Growth</i> , <b>2015</b> , 419, 1-6	1.6	20
172	Adaptive Phase-Field Modeling of Anisotropic Wetting with Line Tension at the Triple Junction. <i>Langmuir</i> , <b>2015</b> , 31, 9348-55	4	1
171	Development of high-performance multicrystalline silicon for photovoltaic industry. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 340-351	6.8	188
170	Multicrystalline Silicon Crystal Growth for Photovoltaic Applications <b>2015</b> , 373-411		17
169	A rapid thermal process for silicon recycle and refining from cutting kerf-loss slurry waste. <i>Separation and Purification Technology</i> , <b>2015</b> , 149, 38-46	8.3	35
168	Recent Progress of Crystal Growth Technology for Multi-Crystalline Silicon Solar Ingot. <i>Solid State Phenomena</i> , <b>2015</b> , 242, 21-29	0.4	17
167	Shallow chemical bath deposition of ZnS buffer layer for environmentally benign solar cell devices. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2014</b> , 5, 025015	1.6	15
166	Silicon recovery from cutting slurry by phase transfer separation. <i>Separation and Purification Technology</i> , <b>2014</b> , 133, 1-7	8.3	37
165	The effect of silica nucleation layers on grain control of multi-crystalline silicon in directional solidification. <i>Journal of Crystal Growth</i> , <b>2014</b> , 404, 59-64	1.6	24
164	Development of grain structures of multi-crystalline silicon from randomly orientated seeds in directional solidification. <i>Journal of Crystal Growth</i> , <b>2014</b> , 387, 10-15	1.6	45
163	Improvement of multi-crystalline silicon ingot growth by using diffusion barriers. <i>Journal of Crystal Growth</i> , <b>2014</b> , 401, 727-731	1.6	19
162	Three-dimensional phase field modeling of silicon thin-film growth during directional solidification: Facet formation and grain competition. <i>Journal of Crystal Growth</i> , <b>2014</b> , 401, 740-747	1.6	16
161	Adaptive phase field modeling of morphological instability and facet formation during directional solidification of SiGe alloys. <i>Journal of Crystal Growth</i> , <b>2014</b> , 385, 44-48	1.6	9
160	Phase field modeling with large interface thickness and undercooling. <i>Journal of Crystal Growth</i> , <b>2014</b> , 385, 121-126	1.6	4
159	Phase field modeling of facet formation during directional solidification of silicon film. <i>Journal of Crystal Growth</i> , <b>2014</b> , 385, 134-139	1.6	16
158	Phase field modeling of crystal growth with nonlinear kinetics. <i>Journal of Crystal Growth</i> , <b>2013</b> , 362, 106-110	1.6	4
157	Effect of crucible coating on the grain control of multi-crystalline silicon crystal growth. <i>Journal of Crystal Growth</i> , <b>2013</b> , 363, 242-246	1.6	15

156	A simple anisotropic surface free energy function for three-dimensional phase field modeling of multi-crystalline crystal growth. <i>Journal of Crystal Growth</i> , <b>2013</b> , 362, 62-65	1.6	17
155	Si-Related Solar Cells for a Low Cost and High Efficiency 2013. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-1	2.1	
154	On the study of zinc doping in congruent LiTaO <sub>3</sub> crystals. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 813-817	4.4	12
153	Generation of annularly symmetric periodic ferroelectric domains in Nd doped near stoichiometric LiTaO <sub>3</sub> crystals by the vapor transport equilibration processing. <i>Materials Letters</i> , <b>2012</b> , 67, 88-90	3.3	1
152	An enhanced cooling design in directional solidification for high quality multi-crystalline solar silicon. <i>Journal of Crystal Growth</i> , <b>2012</b> , 340, 202-208	1.6	48
151	Grain control in directional solidification of photovoltaic silicon. <i>Journal of Crystal Growth</i> , <b>2012</b> , 360, 68-75	1.6	107
150	Photoenergy: Progress in Si-Related Solar Cells for a Low Cost and High Efficiency. <i>International Journal of Photoenergy</i> , <b>2012</b> , 2012, 1-1	2.1	3
149	Optical Properties of Mg, Fe, Co-Doped Near-Stoichiometric LiTaO <sub>3</sub> Single Crystals. <i>Materials</i> , <b>2012</b> , 5, 227-238	3.5	12
148	Shallow bath chemical deposition of CdS thin film. <i>Thin Solid Films</i> , <b>2011</b> , 520, 217-223	2.2	33
147	Adaptive phase field modeling of grain boundary diffusion. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 46-50	1.6	2
146	Adaptive three-dimensional phase-field modeling of dendritic crystal growth with high anisotropy. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 51-54	1.6	24
145	Simulation and experiment on laser-heated pedestal growth of chromium-doped yttrium aluminum garnet single-crystal fiber. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 674-678	1.6	7
144	Phase field modeling of morphological instability near grain boundary during directional solidification of a binary alloy: The hump formation. <i>Journal of Crystal Growth</i> , <b>2011</b> , 324, 296-303	1.6	10
143	Nanotextured crystalline silicon solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2926-2933	1.6	12
142	Thickness measurement of colloidal opal crystal growth by Bragg reflection. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 360, 331-4	9.3	2
141	High-quality multi-crystalline silicon (mc-Si) grown by directional solidification using notched crucibles. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 219-223	1.6	51
140	Crystal growth, VTE treatment, and characterizations of Nd-doped LiTaO <sub>3</sub> . <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 649-652	1.6	5
139	Dye-sensitized solar cells based on electrodeposited zinc oxide films <b>2011</b> ,		1

138	A Nano Quasi-Solid Electrolyte With Modified Nano-Clay Applied to Dye-Sensitized Solar Cells. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2011</b> , 133,	2.3	16
137	Three-dimensional adaptive phase field modeling of directional solidification of a binary alloy: 2D/3D transitions. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2272-2283	4.9	21
136	Efficient adaptive three-dimensional phase field simulation of free dendritic growth under natural convection. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 1437-1442	1.6	17
135	Recovery of silicon powder from kerf loss slurry by centrifugation. <i>Powder Technology</i> , <b>2010</b> , 200, 216-223	3.2	95
134	Growth and photorefractive properties of Mg, Fe co-doped near-stoichiometric lithium tantalate single crystals. <i>Optical Materials</i> , <b>2010</b> , 32, 1071-1076	3.3	11
133	High-quality multi-crystalline silicon growth for solar cells by grain-controlled directional solidification. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2010</b> , 18, n/a-n/a	6.8	9
132	Influence of surface structure on the performance of black-silicon solar cell. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2778-2784		12
131	Convection and Control in Melt Growth of Bulk Crystals <b>2010</b> , 1215-1242		
130	High Efficiency Silicon Solar Cells with Bilayer Passivation Structure. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, H388		13
129	Adaptive phase field simulation of dendritic crystal growth in a forced flow: 2D vs 3D morphologies. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1158-1166	4.9	53
128	Recovery of silicon from kerf loss slurry waste for photovoltaic applications. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2009</b> , 17, 155-163	6.8	68
127	Experiment and simulation on interface shapes of an yttrium aluminium garnet miniature molten zone formed using the laser-heated pedestal growth method for single-crystal fibers. <i>Journal of Applied Crystallography</i> , <b>2009</b> , 42, 553-563	3.8	14
126	Efficient adaptive three-dimensional phase-field simulation of dendritic crystal growth from various supercoolings using rescaling. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 702-706	1.6	20
125	Segregation control of vertical Bridgman growth of Ga-doped germanium crystals by accelerated crucible rotation: ACRT versus angular vibration. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 684-687	1.6	10
124	Grain control using spot cooling in multi-crystalline silicon crystal growth. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 263-267	1.6	62
123	The effects of shower head orientation and substrate position on the uniformity of GaN growth in a HVPE reactor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2009</b> , 40, 475-478	5.3	9
122	Effect of high-frequency vibrations on oriented crystallization of binary alloys. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 116-120	0.5	4
121	Fast nano-scale texturing using the self-assembly polymer mask and wet chemical etching <b>2009</b> ,		1

120	Two-Dimensional Simulations on Heat Transfer and Fluid Flow for Yttrium Aluminium Garnet Single-Crystal Fiber in Laser-Heated Pedestal Growth System. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 115504	1.4	11
119	Czochralski Silicon Crystal Growth for Photovoltaic Applications. <i>Advances in Materials Research</i> , <b>2009</b> , 25-39		9
118	Influence of high-frequency vibration on the morphological instability in the directional crystallization of binary melts. <i>Fluid Dynamics</i> , <b>2008</b> , 43, 514-523	0.7	4
117	A novel approach for recycling of kerf loss silicon from cutting slurry waste for solar cell applications. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 3403-3406	1.6	128
116	Comparative study of the influence of natural convection on directional solidification of Al <sub>0.5</sub> wt% Ni and Al <sub>0.7</sub> wt% Si alloys. <i>Advances in Space Research</i> , <b>2008</b> , 41, 2112-2117	2.4	17
115	A new single step process for synthesis and growth of ZnGeP <sub>2</sub> crystal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2008</b> , 39, 385-387		18
114	Zone-leveling Czochralski growth and characterization of undoped and MgO-doped near-stoichiometric lithium tantalate crystals. <i>Journal of Crystal Growth</i> , <b>2008</b> , 311, 66-71	1.6	7
113	Phase field modeling of growth competition of silicon grains. <i>Acta Materialia</i> , <b>2008</b> , 56, 4114-4122	8.4	25
112	Effects of angular vibration on the flow, segregation, and interface morphology in vertical Bridgman crystal growth. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 58-66	4.9	11
111	Effects of cycle patterns of accelerated crucible rotation technique (ACRT) on the flows, interface, and segregation in vertical Bridgman crystal growth. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 5031-5040	4.9	15
110	Dynamic three-dimensional simulation of facet formation and segregation in Bridgman crystal growth. <i>Journal of Crystal Growth</i> , <b>2007</b> , 303, 287-296	1.6	10
109	Effects of accelerated crucible rotation on segregation and interface morphology for vertical Bridgman crystal growth: Visualization and simulation. <i>Journal of Crystal Growth</i> , <b>2007</b> , 304, 236-243	1.6	11
108	Growth and characterization of a new chelating agent added 4-dimethylamino-N-methyl-4-stilbazolium tosylate (DAST) single crystals. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 102, 60-66	4.4	18
107	Phase field modeling of excimer laser crystallization of thin silicon films on amorphous substrates. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 053504	2.5	9
106	Influence of Forced Convection on Columnar Microstructure during Directional Solidification of Al - Ni Alloys. <i>Materials Science Forum</i> , <b>2006</b> , 508, 181-186	0.4	3
105	P-6: Analysis of Microscopic Crystallization of Two-Shot SLS Process and Its Dependence on Performance of LTPS Devices. <i>Digest of Technical Papers SID International Symposium</i> , <b>2006</b> , 37, 212	0.5	
104	Thermal solutal flows and segregation and their control by angular vibration in vertical Bridgman crystal growth. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 7766-7773	4.4	9
103	Improvements of uniformity and stoichiometry for zone-leveling Czochralski growth of MgO-doped LiNbO <sub>3</sub> crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2006</b> , 128, 161-167	3.1	5

102	Growth and characterizations of ZnO-doped near-stoichiometric LiNbO <sub>3</sub> crystals by zone-leveling Czochralski method. <i>Journal of Crystal Growth</i> , <b>2006</b> , 289, 145-150	1.6	9
101	Effect of sodium toluene sulfonate on the nucleation, growth and characterization of DAST single crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 292, 510-514	1.6	11
100	Phase field modeling of convective and morphological instability during directional solidification of an alloy. <i>Journal of Crystal Growth</i> , <b>2006</b> , 295, 202-208	1.6	22
99	Surface defects and mechanical hardness of rapidly grown DAST crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 297, 146-151	1.6	21
98	Flow and segregation control by accelerated rotation for vertical Bridgman growth of cadmium zinc telluride: ACRT versus vibration. <i>Journal of Crystal Growth</i> , <b>2005</b> , 274, 379-386	1.6	23
97	Studies on amino acids admixed triglycine sulphophosphate crystals. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1461-e1465	1.6	1
96	Zone-levelling Czochralski growth of MgO-doped near-stoichiometric lithium niobate single crystals. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, 504-511	1.6	12
95	An investigation on the growth and characterization of DAST crystals grown by two zone growth technique. <i>Journal of Crystal Growth</i> , <b>2005</b> , 282, 117-124	1.6	30
94	A simple approach toward quantitative phase field simulation for dilute-alloy solidification. <i>Journal of Crystal Growth</i> , <b>2005</b> , 282, 515-524	1.6	11
93	Quantitative phase field simulation of deep cells in directional solidification of an alloy. <i>Acta Materialia</i> , <b>2005</b> , 53, 2285-2294	8.4	25
92	Tailoring of dendritic microstructure in solidification processing by crucible vibration/rotation. <i>Microgravity Science and Technology</i> , <b>2005</b> , 16, 15-19	1.6	3
91	Efficient phase field simulation of a binary dendritic growth in a forced flow. <i>Physical Review E</i> , <b>2004</b> , 69, 031601	2.4	32
90	Three-dimensional simulation of heat flow, segregation, and zone shape in floating-zone silicon growth under axial and transversal magnetic fields. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 59-71	1.6	16
89	On the hot-zone design of Czochralski silicon growth for photovoltaic applications. <i>Journal of Crystal Growth</i> , <b>2004</b> , 261, 433-443	1.6	20
88	Long-time scale morphological dynamics near the onset of instability during directional solidification of an alloy. <i>Journal of Crystal Growth</i> , <b>2004</b> , 264, 379-384	1.6	15
87	Phase field simulation of non-isothermal free dendritic growth of a binary alloy in a forced flow. <i>Journal of Crystal Growth</i> , <b>2004</b> , 264, 472-482	1.6	60
86	Three-dimensional analysis of flow and segregation in vertical bridgman crystal growth under a transversal magnetic field with ampoule rotation. <i>Journal of Crystal Growth</i> , <b>2004</b> , 266, 200-206	1.6	5
85	Simulation of boron effects on OISF-ring dynamics for Czochralski silicon growth: a comparative study. <i>Journal of Crystal Growth</i> , <b>2004</b> , 266, 132-139	1.6	4



84	Nucleation, growth and characterization of L-tartaric acidBicotinamide NLO crystals. <i>Journal of Crystal Growth</i> , <b>2004</b> , 270, 475-480	1.6	33
83	Reversing radial segregation and suppressing morphological instability during Bridgman crystal growth by angular vibration. <i>Journal of Crystal Growth</i> , <b>2004</b> , 271, 474-480	1.6	24
82	Recent progress of crystal growth modeling and growth control. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 1437-1457	4.4	74
81	Effect of EDTA on Growth of 4-Dimethylamino-N-Methyl-4-Stilbazolium Tosylate Crystals by Slope Nucleation Method. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 1507-1513	1.4	13
80	Theoretical Analysis of the Micro-Pulling-Down Process. <i>Advances in Materials Research</i> , <b>2004</b> , 89-101		2
79	Detection characteristics of vertical Bridgman grown stilbene crystals for gamma rays using <sup>60</sup> Co, <sup>137</sup> Cs and <sup>22</sup> Na gamma ray sources. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 77, 77-80	4.4	9
78	Effects of internal radiation on heat flow and facet formation in Bridgman growth of YAG crystals. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 1629-1640	4.9	34
77	Studies on the growth and characterization of p-hydroxyacetophenone single crystals. <i>Journal of Crystal Growth</i> , <b>2003</b> , 249, 309-315	1.6	45
76	Three-dimensional simulation of floating-zone crystal growth of oxide crystals. <i>Journal of Crystal Growth</i> , <b>2003</b> , 247, 597-612	1.6	30
75	Efficient adaptive phase field simulation of directional solidification of a binary alloy. <i>Journal of Crystal Growth</i> , <b>2003</b> , 250, 525-537	1.6	28
74	Three-dimensional analysis of flow and segregation in vertical Bridgman crystal growth under axial and transversal magnetic fields. <i>Journal of Crystal Growth</i> , <b>2003</b> , 254, 503-515	1.6	22
73	Adaptive phase field simulation of non-isothermal free dendritic growth of a binary alloy. <i>Acta Materialia</i> , <b>2003</b> , 51, 1857-1869	8.4	56
72	Nucleation studies and crystal growth of (NH <sub>4</sub> )H <sub>2</sub> PO <sub>4</sub> doped with thiourea in supersaturated aqueous solutions. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 76, 181-186	4.4	23
71	An Adaptive Finite Volume Method for Incompressible Heat Flow Problems in Solidification. <i>Journal of Computational Physics</i> , <b>2002</b> , 178, 464-497	4.1	49
70	Segregation and morphological instability due to double-diffusive convection in rotational directional solidification. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2002</b> , 33, 3011-3017	2.3	8
69	Synthesis and crystal growth of binary organic NLO material UNBA. <i>Journal of Crystal Growth</i> , <b>2002</b> , 235, 499-504	1.6	31
68	Reversing radial segregation and suppressing morphological instability during vertical Bridgman crystal growth by rotation. <i>Journal of Crystal Growth</i> , <b>2002</b> , 235, 619-625	1.6	6
67	Three-dimensional analysis of flow and segregation control by slow rotation for Bridgman crystal growth in microgravity. <i>Journal of Crystal Growth</i> , <b>2002</b> , 237-239, 1881-1885	1.6	10

66	Efficient adaptive phase field simulation of dendritic growth in a forced flow at low supercooling. <i>Journal of Crystal Growth</i> , <b>2002</b> , 241, 379-386	1.6	29
65	Growth and characterization of di-sodium hydrogen phosphate. <i>Journal of Crystal Growth</i> , <b>2002</b> , 244, 194-199	1.6	13
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