

# Gen Sasaki

## 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.

163  
papers

3,686  
citations

35  
h-index

50  
g-index

166  
ext. papers

3,947  
ext. citations

3.3  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
163	Step-bunching instability of growing interfaces between ice and supercooled water.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2115955119	11.5	2
162	In-situ optical microscopy observation of elementary steps on ice crystals grown in vapor and their growth kinetics. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2021</b> , 67, 100550	3.5	0
161	HCl Droplets Induced Bunched Steps on Ice Crystal Surfaces under Atmospheric-Concentration HCl Gas. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 2508-2515	3.5	2
160	First X-ray Scattering Measurements of Insect Body Surface Lipids: American Cockroach. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1969-1972	6.4	
159	Cuticular Lipid Topology on Insect Body Surfaces Studied by Synchrotron Radiation FTIR ATR Microspectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 9757-9767	3.4	0
158	Appearance and Disappearance of Quasi-Liquid Layers on Ice Crystals in the Presence of Nitric Acid Gas. <i>Crystals</i> , <b>2020</b> , 10, 72	2.3	2
157	Quasi-liquid Layers in Grooves of Grain Boundaries and on Grain Surfaces of Polycrystalline Ice Thin Films. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 7188-7196	3.5	2
156	Correction to Quasi-Liquid Layers Can Exist on Polycrystalline Ice Thin Films at a Temperature Significantly Lower than on Ice Single Crystals. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 4852-4854	3.5	1
155	Crystal-plane-dependent effects of antifreeze glycoprotein impurity for ice growth dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180393		3
154	The Surface of Ice under Equilibrium and Nonequilibrium Conditions. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1006-1015	24.3	40
153	How Do Ice Crystals Grow inside Quasiliquid Layers?. <i>Physical Review Letters</i> , <b>2019</b> , 122, 026102	7.4	10
152	Quasi-Liquid Layers Can Exist on Polycrystalline Ice Thin Films at a Temperature Significantly Lower than on Ice Single Crystals. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 116-124	3.5	6
151	Growth of Ice Crystals in the Presence of Type III Antifreeze Protein. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2563-2571	3.5	12
150	Differential Interference Contrast Microscopy/Phase-Contrast Microscopy <b>2018</b> , 55-60		0
149	Temperature Dependence of the Growth Kinetics of Elementary Spiral Steps on Ice Basal Faces Grown from Water Vapor. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 786-793	3.5	13
148	In situ observations of spiral growth on ice crystal surfaces. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	4
147	ATR FTIR Spectroscopic Study on Insect Body Surface Lipids Rich in Methylene-Interrupted Diene. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 12322-12330	3.4	4

146	Uptake Mechanism of Atmospheric Hydrogen Chloride Gas in Ice Crystals via Hydrochloric Acid Droplets. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 4117-4122	3.5	9
145	Growth suppression of ice crystal basal face in the presence of a moderate ice-binding protein does not confer hyperactivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7479-7484	11.5	14
144	Oscillations and accelerations of ice crystal growth rates in microgravity in presence of antifreeze glycoprotein impurity in supercooled water. <i>Scientific Reports</i> , <b>2017</b> , 7, 43157	4.9	17
143	Self-Organized Formation of Parallel-Banded Structures through Synchronization of Twisted Growth. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3694-3699	3.5	1
142	In-situ observation of crystal surfaces by optical microscopy. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2016</b> , 62, 408-412	3.5	3
141	Thermodynamic origin of surface melting on ice crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6741-E6748	11.5	55
140	Two types of quasi-liquid layers on ice crystals are formed kinetically. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1749-53	11.5	37
139	Direct Visualization of Quasi-Liquid Layers on Ice Crystal Surfaces Induced by Hydrogen Chloride Gas. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 2225-2230	3.5	9
138	Direct observation of bunching of elementary steps on protein crystals under forced flow conditions. <i>Theoretical and Applied Mechanics Letters</i> , <b>2015</b> , 5, 173-176	1.8	1
137	Prism and Other High-Index Faces of Ice Crystals Exhibit Two Types of Quasi-Liquid Layers. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3339-3344	3.5	18
136	Oscillatory growth for twisting crystals. <i>Chemical Communications</i> , <b>2015</b> , 51, 8516-9	5.8	9
135	In-situ Determination of Surface Tension-to-Shear Viscosity Ratio for Quasiliquid Layers on Ice Crystal Surfaces. <i>Physical Review Letters</i> , <b>2015</b> , 115, 256103	7.4	22
134	Attachment and Detachment Processes of Individual Lysozyme Molecules on a Surface of a Monoclinic Lysozyme Crystal Studied by Fluorescent Single-Molecule Visualization. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 5303-5309	3.5	1
133	Antifreeze effect of carboxylated $\beta$ -poly-L-lysine on the growth kinetics of ice crystals. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 10240-9	3.4	42
132	Double Spiral Steps on Ih Ice Crystal Surfaces Grown from Water Vapor Just below the Melting Point. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2133-2137	3.5	18
131	Roles of Surface/Volume Diffusion in the Growth Kinetics of Elementary Spiral Steps on Ice Basal Faces Grown from Water Vapor. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3210-3220	3.5	18
130	High Contrast Visualization of Cell-Hydrogel Contact by Advanced Interferometric Optical Microscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 253-7	6.4	10
129	Colloidal crystallization utilizing interfaces of unidirectionally growing ice crystals. <i>Journal of Crystal Growth</i> , <b>2013</b> , 383, 67-71	1.6	7

128	A Novel Approach for Protein Crystallization by a Synthetic Hydrogel with Thermoreversible Gelation Polymer. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 1899-1904	3.5	16
127	How do Quasi-Liquid Layers Emerge from Ice Crystal Surfaces?. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 1761-1766	3.5	20
126	Surfaces of Ice <b>2013</b> , 305-348		3
125	Elementary Growth Processes and Surface Melting of Ice Crystals Revealed by Advanced Optical Microscopy. <i>Journal of the Japanese Society for Food Science and Technology</i> , <b>2013</b> , 60, 445-449	0.2	
124	Spatially Precise, Soft Microseeding of Single Protein Crystals by Femtosecond Laser Ablation. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 4334-4339	3.5	12
123	Effects of a Forced Solution Flow on the Step Advancement on {110} Faces of Tetragonal Lysozyme Crystals: Direct Visualization of Individual Steps under a Forced Solution Flow. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 2856-2863	3.5	22
122	Spiral-Mediated Growth Can Lead to Crystals of Higher Purity. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 2367-2374	3.5	16
121	Growth of protein crystals in hydrogels prevents osmotic shock. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5786-9	16.4	45
120	Quasi-liquid layers on ice crystal surfaces are made up of two different phases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 1052-5	11.5	88
119	In situ observation of elementary growth processes of protein crystals by advanced optical microscopy. <i>Protein and Peptide Letters</i> , <b>2012</b> , 19, 743-60	1.9	5
118	Growth of Protein Crystals in Hydrogels with High Strength. <i>Nihon Kessho Gakkaishi</i> , <b>2012</b> , 54, 300-303		0
117	Effects of high pressure on the step velocity on the {110} faces of tetragonal lysozyme crystals. <i>World Journal of Engineering</i> , <b>2011</b> , 8, 307-312	1.8	
116	Gradual Immobilization Processes of Molecules during Transitions from Solute to Solid States. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 88-92	3.5	9
115	Anomalous diffusion in supported lipid bilayers induced by oxide surface nanostructures. <i>Langmuir</i> , <b>2011</b> , 27, 9662-5	4	28
114	Effect of Evaporation on Protein Crystals Grown in Semi-Solid Agarose Hydrogel. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 025502	1.4	4
113	Effect of Evaporation on Protein Crystals Grown in Semi-Solid Agarose Hydrogel. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 025502	1.4	6
112	Elementary steps at the surface of ice crystals visualized by advanced optical microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19702-7	11.5	92
111	Enhancement of femtosecond laser-induced nucleation of protein in a gel solution. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 043702	3.4	42

110	Nucleation and Polymorphism of Calcium Carbonate by a Vapor Diffusion Sitting Drop Crystallization Technique. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 963-969	3.5	31
109	In Situ Observation of Step Dynamics on Gypsum Crystals. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 3909-3915	3.5	46
108	An Approach to DNA Crystallization Using the Thermal Reversible Process of DNA Duplexes. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 1090-1095	3.5	5
107	First Direct Observation of Elementary Steps on the Surfaces of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 2020-2020	3.5	3
106	Preparation and Characterization of Ultraclean H:Si(111)-(1*1) Surfaces Studied by HREELS, AFM and STM-STs. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2009</b> , 7, 557-562	0.7	
105	Crystal quality enhancement by magnetic fields. <i>Progress in Biophysics and Molecular Biology</i> , <b>2009</b> , 101, 45-55	4.7	26
104	Influence of micro-impurity on protein crystal growth studied by the etch figure method. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 548-552	1.6	1
103	Femtosecond laser-induced nucleation of protein in agarose gel. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 956-959	1.6	49
102	Chiral and Achiral Mechanisms of Regulation of Calcite Crystallization. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 127-135	3.5	35
101	First Direct Observation of Elementary Steps on the Surfaces of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4289-4295	3.5	15
100	Direct Observation of Adsorption Sites of Protein Impurities and Their Effects on Step Advancement of Protein Crystals. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3062-3071	3.5	31
99	Single-Molecule Visualization of Diffusion at the Solution-Crystal Interface. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 2024-2031	3.5	20
98	Is Agarose an Impurity or an Impurity Filter? In Situ Observation of the Joint Gel/Impurity Effect on Protein Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3623-3629	3.5	30
97	Single-molecule measurements and dynamical simulations of protein molecules near silicon substrates. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 095301	3	15
96	Comparison of Different Experimental Techniques for the Measurement of Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 4316-4323	3.5	51
95	Laser energy dependence on femtosecond laser-induced nucleation of protein. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 93, 911-915	2.6	22
94	In situ observation of Si faceted dendrite growth from low-degree-of-undercooling melts. <i>Acta Materialia</i> , <b>2008</b> , 56, 2663-2668	8.4	74
93	Direct and Noninvasive Observation of Two-Dimensional Nucleation Behavior of Protein Crystals by Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 1980-1987	3.5	48

92	Step-Induced Anisotropic Growth of Pentacene Thin Film Crystals on a Hydrogen-Terminated Si(111) Surface. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 439-444	3.5	13
91	Photochemically induced nucleation in supersaturated and undersaturated thaumatin solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 190, 88-93	4.7	19
90	Formation mechanism of parallel twins related to Si-faceted dendrite growth. <i>Scripta Materialia</i> , <b>2007</b> , 57, 81-84	5.6	68
89	Preparation of an Ultraclean and Atomically Controlled Hydrogen-Terminated Si(111)-(1 $\times$ 1) Surface Revealed by High Resolution Electron Energy Loss Spectroscopy, Atomic Force Microscopy, and Scanning Tunneling Microscopy: Aqueous NH <sub>4</sub> F Etching Process of Si(111). <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 5701-5705	1.4	22
88	Polycrystalline domain structure of pentacene thin films epitaxially grown on a hydrogen-terminated Si(111) surface. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	19
87	Surface-enhanced hyper-Raman spectroscopy using optical trapping of silver nanoparticles for molecular detection in solution. <i>Journal of Optics</i> , <b>2007</b> , 9, S164-S171		19
86	Detection of Covalent-bonded Dimer in Photochemically Induced Crystallization of Protein. <i>Chemistry Letters</i> , <b>2007</b> , 36, 714-715	1.7	11
85	Single-nucleus polycrystallization in thin film epitaxial growth. <i>Physical Review Letters</i> , <b>2007</b> , 98, 046104	7.4	42
84	Step velocity in tetragonal lysozyme growth as a function of impurity concentration and mass transport conditions. <i>Journal of Crystal Growth</i> , <b>2006</b> , 293, 102-109	1.6	38
83	Impurity effects of lysozyme molecules specifically labeled with a fluorescent reagent on the crystallization of tetragonal and monoclinic lysozyme crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 293, 415-422	1.6	18
82	Intermixing of Ge and Si during exposure of GeH <sub>4</sub> on Si. <i>Thin Solid Films</i> , <b>2006</b> , 508, 163-165	2.2	3
81	High-pressure acceleration of the growth kinetics of glucose isomerase crystals. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3222-6	3.4	17
80	In Situ Observation of Dislocations in Protein Crystals during Growth by Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 1729-1735	3.5	29
79	Growth of InGaAs and SiGe homogeneous bulk crystals which have complete miscibility in the phase diagrams. <i>International Journal of Materials and Product Technology</i> , <b>2005</b> , 22, 185	1	5
78	Effects of vicinal steps on the island growth and orientation of epitaxially grown perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) thin film crystals on a hydrogen-terminated Si(1 1 1) substrate. <i>Journal of Crystal Growth</i> , <b>2005</b> , 273, 594-602	1.6	9
77	Investigations on electromigration phenomena for protein crystallization using crystal growth cells with multiple electrodes: effect of the potential control. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1437-e1446	1.6	18
76	Crystal quality of a 6H-SiC layer grown over macrodefects by liquid-phase epitaxy: a Raman spectroscopic study. <i>Thin Solid Films</i> , <b>2005</b> , 476, 206-209	2.2	23
75	Structural consequences of hen egg-white lysozyme orthorhombic crystal growth in a high magnetic field: validation of X-ray diffraction intensity, conformational energy searching and quantitative analysis of B factors and mosaicity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2005</b> , 61, 207-17		27

74	Effects of spacer thickness on quantum efficiency of the solar cells with embedded Ge islands in the intrinsic layer. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2802-2804	3.4	17
73	Fabrication of solar cell with stacked Ge islands for enhanced absorption in the infrared regime. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 604-607	2.2	6
72	Epitaxial relation and island growth of perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) thin film crystals on a hydrogen-terminated Si(1 1 1) substrate. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 196-201	1.6	20
71	A unique dye-decolorizing peroxidase, DyP, from <i>Thanatephorus cucumeris</i> Dec 1: heterologous expression, crystallization and preliminary X-ray analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 149-52		27
70	Phase diagram of growth mode for the SiGe/Si heterostructure system with misfit dislocations. <i>Journal of Crystal Growth</i> , <b>2004</b> , 260, 372-383	1.6	12
69	Novel coupling effects of the magnetic and electric fields on protein crystallization. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 499-502	1.6	47
68	In situ observation of elementary growth steps on the surface of protein crystals by laser confocal microscopy. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 536-542	1.6	89
67	In-situ observations of melt growth behavior of polycrystalline silicon. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 124-129	1.6	59
66	The use of a new ad hoc growth cell with parallel electrodes for the nucleation control of lysozyme. <i>Journal of Crystal Growth</i> , <b>2004</b> , 264, 438-444	1.6	44
65	Effects of growth temperature on the surface morphology of silicon thin films on (111) silicon monocrystalline substrate by liquid phase epitaxy. <i>Journal of Crystal Growth</i> , <b>2004</b> , 266, 467-474	1.6	6
64	Grain growth behaviors of polycrystalline silicon during melt growth processes. <i>Journal of Crystal Growth</i> , <b>2004</b> , 266, 441-448	1.6	89
63	Fabrication of SiGe-on-insulator by rapid thermal annealing of Ge on Si-on-insulator substrate. <i>Applied Surface Science</i> , <b>2004</b> , 224, 95-98	6.7	10
62	On the origin of strain fluctuation in strained-Si grown on SiGe-on-insulator and SiGe virtual substrates. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1335-1337	3.4	19
61	Molten metal flux growth and properties of CrSi <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 383, 319-321	5.7	9
60	Fabrication of SiGe-on-Insulator through Thermal Diffusion of Ge on Si-on-Insulator Substrate. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, L232-L234	1.4	8
59	High-Temperature Solution Growth and Characterization of Chromium Disilicide. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, 7292-7293	1.4	2
58	Growth of SiGe bulk crystals with uniform composition by utilizing feedback control system of the crystal/melt interface position for precise control of the growth temperature. <i>Journal of Crystal Growth</i> , <b>2003</b> , 250, 298-304	1.6	27
57	Recrystallization of Cu-phthalocyanine on KCl (0 0 1) substrates by annealing method. <i>Journal of Crystal Growth</i> , <b>2003</b> , 254, 244-250	1.6	14

56	Effects of high pressure on the growth kinetics of orthorhombic lysozyme crystals. <i>Journal of Crystal Growth</i> , <b>2003</b> , 254, 188-195	1.6	19
55	Stacked Ge islands for photovoltaic applications. <i>Science and Technology of Advanced Materials</i> , <b>2003</b> , 4, 367-370	7.1	10
54	Enhanced quantum efficiency of solar cells with self-assembled Ge dots stacked in multilayer structure. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1258-1260	3.4	86
53	High-Quality Crystalline Silicon Layer Grown by Liquid Phase Epitaxy Method at Low Growth Temperature. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, L217-L219	1.4	6
52	Influence of the elastic strain on the band structure of ellipsoidal SiGe coherently embedded in the Si matrix. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 916-920	2.5	18
51	Protein crystallization under high pressure. <i>BBA - Proteins and Proteomics</i> , <b>2002</b> , 1595, 345-56		29
50	Fabrication of SiGe bulk crystals with uniform composition as substrates for Si-based heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2002</b> , 89, 364-367	3.1	4
49	Melt growth of multicrystalline SiGe with large compositional distribution for new solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2002</b> , 72, 93-100	6.4	15
48	In situ observations of crystal growth behavior of silicon melt. <i>Journal of Crystal Growth</i> , <b>2002</b> , 243, 275-282		64
47	Growth and properties of SiGe multicrystals with microscopic compositional distribution for high-efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2002</b> , 73, 305-320	6.4	15
46	In situ observation of the Marangoni convection in a NaCl aqueous solutions under microgravity. <i>Journal of Crystal Growth</i> , <b>2002</b> , 234, 516-522	1.6	6
45	In-situ monitoring system of the position and temperature at the crystal/solution interface. <i>Journal of Crystal Growth</i> , <b>2002</b> , 236, 125-131	1.6	12
44	Compositional variation in Si-rich SiGe single crystals grown by multi-component zone melting method using Si seed and source crystals. <i>Journal of Crystal Growth</i> , <b>2002</b> , 240, 373-381	1.6	32
43	New method for measurement of interdiffusion coefficient in high temperature solutions based on Fick's first law. <i>Journal of Crystal Growth</i> , <b>2002</b> , 241, 387-394	1.6	13
42	Simultaneous in situ measurement of solute and temperature distributions in the alloy solutions. <i>Journal of Crystal Growth</i> , <b>2002</b> , 242, 313-320	1.6	6
41	Strain distribution of Si thin film grown on multicrystalline-SiGe with microscopic compositional distribution. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 7098-7101	2.5	2
40	Control of Macroscopic Absorption Coefficient of Multicrystalline SiGe by Microscopic Compositional Distribution. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L37-L39	1.4	7
39	Evidence of the Presence of Built-in Strain in Multicrystalline SiGe with Large Compositional Distribution. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, 4462-4465	1.4	8



38	In situ measurements of the solubility of protein crystals under high pressure. <i>Progress in Biotechnology</i> , <b>2002</b> , 117-122		1
37	Effects of pressure on growth kinetics of protein crystals. <i>Progress in Biotechnology</i> , <b>2002</b> , 19, 123-130		1
36	Significant Decrease in the Solubility of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , <b>2002</b> , 2, 321-324	3.5	25
35	Crystal structures of the reaction intermediate and its homologue of an extradiol-cleaving catecholic dioxygenase. <i>Journal of Molecular Biology</i> , <b>2002</b> , 321, 621-36	6.5	97
34	Evaluation of the diffusion coefficients in liquid GaGe binary alloys using a novel method based on Fick's first law. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 312-314, 196-202	3.9	3
33	Morphology and solubility of multiple crystal forms of Taka-amylase A. <i>Journal of Crystal Growth</i> , <b>2001</b> , 222, 311-316	1.6	13
32	Growth of SiGe bulk crystal with uniform composition by directly controlling the growth temperature at the crystal-melt interface using in situ monitoring system. <i>Journal of Crystal Growth</i> , <b>2001</b> , 224, 204-211	1.6	46
31	Improvement in diffraction maxima in orthorhombic HEWL crystal grown under high magnetic field. <i>Journal of Crystal Growth</i> , <b>2001</b> , 232, 229-236	1.6	15
30	Growth of SixGe <sub>1-x</sub> ( $x$ fallingdotseq 0.15) Bulk Crystal with Uniform Composition Utilizing in situ Monitoring of the Crystal-solution Interface. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 4141-4144	1.4	9
29	Molecular beam epitaxy of GaAs on nearly lattice-matched SiGe substrates grown by the multicomponent zone-melting method. <i>Semiconductor Science and Technology</i> , <b>2001</b> , 16, 699-703	1.8	7
28	Effects of misfit dislocations and AlN buffer layer on the GaInN/GaN phase diagram of the growth mode. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 146-153	2.5	30
27	Physical model for the evaluation of solid-liquid interfacial tension in silicon. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 750-755	2.5	16
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12	New growth method of oxide crystals by PO <sub>2</sub> change applied to SmBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>1999</b> , 205, 503-509	1.6	3
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